

Government  
eProcurement  
System

## eProcurement System Government of India

## Tender Details

Date : 21-Aug-2026 12:05 PM

Print

**Basic Details**

|                                      |                                                  |                                       |       |
|--------------------------------------|--------------------------------------------------|---------------------------------------|-------|
| Organisation Chain                   | National Institute of Technology Tiruchirappalli |                                       |       |
| Tender Reference Number              | EMD/AMC/CVL/Tender/2026-27/10                    |                                       |       |
| Tender ID                            | 2026_NITT_923044_1                               | Withdrawal Allowed                    | Yes   |
| Tender Type                          | Open Tender                                      | Form of contract                      | Works |
| Tender Category                      | Works                                            | No. of Covers                         | 3     |
| General Technical Evaluation Allowed | No                                               | ItemWise Technical Evaluation Allowed | No    |
| Payment Mode                         | Offline                                          | Is Multi Currency Allowed For BOQ     | No    |
| Is Multi Currency Allowed For Fee    | No                                               | Allow Two Stage Bidding               | No    |

**Payment Instruments**

| Offline | S.No | Instrument Type |
|---------|------|-----------------|
|         | 1    | Direct Credit   |

**Cover Details, No. Of Covers - 3**

| Cover No | Cover             | Document Type | Description                                                                                           |
|----------|-------------------|---------------|-------------------------------------------------------------------------------------------------------|
| 1        | Fee               | .pdf          | EMD (Earnest Money Deposit)                                                                           |
|          |                   | .pdf          | Bid Security Form (Annexure I)                                                                        |
| 2        | PreQual/Technical | .pdf          | Declaration by the firm that it has never been black-listed                                           |
|          |                   | .pdf          | Details to be furnished by the Contractor. (Tender Document Pg. No.7)                                 |
|          |                   | .pdf          | Other Important Documents. (Combined Copy)                                                            |
|          |                   | .pdf          | Technical Bid                                                                                         |
|          |                   | .xls          | Technical Bid                                                                                         |
|          |                   | .pdf          | Details of similar works executed with Govt. depts./ reputed private Ltd, companies or educational in |
| 3        | Finance           | .xls          | Price Bid (BoQ)                                                                                       |
|          |                   | .pdf          | Scanned copy of item wise breakup of price bid.                                                       |

**Other Important Documents**

| S.No | Category            | Sub Category                                                               | Sub Category Description                                                   | Format/File |
|------|---------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------|
| 1    | Certificate Details | Permanent Account Number                                                   | Permanent Account Number Details                                           |             |
| 2    | Certificate Details | Registration Certificate                                                   | Registration Certificate Details                                           |             |
| 3    | Certificate Details | Bidders Address Format                                                     | Bidders Address Format Details                                             |             |
| 4    | Certificate Details | Provident Fund Certificate                                                 | Provident Fund Certificate                                                 |             |
| 5    | Certificate Details | Employees State Insurance Certificate                                      | Employees State Insurance Certificate                                      |             |
| 6    | Certificate Details | GST Registration Certificate                                               | GST Registration Certificate                                               |             |
| 7    | Financial Details   | Audited Profit and Loss Account and Balance Sheet Details for last 3 Years | Audited Profit and Loss Account and Balance Sheet Details for last 3 Years |             |

**Tender Fee Details, [Total Fee in ₹ \* - 0.00]**

|                              |      |                |     |
|------------------------------|------|----------------|-----|
| Tender Fee in ₹              | 0.00 |                |     |
| Fee Payable To               | Nil  | Fee Payable At | Nil |
| Tender Fee Exemption Allowed | No   |                |     |

**EMD Fee Details**

|                 |                        |                       |                        |
|-----------------|------------------------|-----------------------|------------------------|
| EMD Amount in ₹ | 4,61,500               | EMD Exemption Allowed | No                     |
| EMD Fee Type    | fixed                  | EMD Percentage        | NA                     |
| EMD Payable To  | AS PER TENDER DOCUMENT | EMD Payable At        | AS PER TENDER DOCUMENT |

[Click to view modification history](#)**Work / Item(s)**

|                                       |                                                                                             |                  |                     |              |    |
|---------------------------------------|---------------------------------------------------------------------------------------------|------------------|---------------------|--------------|----|
| Title                                 | Annual Maintenance Contract for Civil Works for Institute and Quarters Zones at NIT-Trichy. |                  |                     |              |    |
| Work Description                      | Annual Maintenance Contract for Civil Works for Institute and Quarters Zones at NIT-Trichy. |                  |                     |              |    |
| Pre Qualification Details             | Please refer Tender documents.                                                              |                  |                     |              |    |
| Independent External Monitor/ Remarks | NA                                                                                          |                  |                     |              |    |
| Show Tender Value in Public Domain    | No                                                                                          |                  |                     |              |    |
| Tender Value in ₹                     | 0.00                                                                                        | Product Category | Miscellaneous Works | Sub category | NA |

|                         |                                     |                           |                      |                       |                                     |
|-------------------------|-------------------------------------|---------------------------|----------------------|-----------------------|-------------------------------------|
| Contract Type           | Tender                              | Bid Validity(Days)        | 180                  | Period Of Work(Days)  | 365                                 |
| Location                | NIT, TIRUCHIRAPPALLI                | Pincode                   | 620015               | Pre Bid Meeting Place | Estate Maintenance Department, NITT |
| Pre Bid Meeting Address | Estate Maintenance Department, NITT | Pre Bid Meeting Date      | 31-Aug-2026 11:00 AM | Bid Opening Place     | STORES AND PURCHASE SECTION         |
| Should Allow NDA Tender | No                                  | Allow Preferential Bidder | No                   |                       |                                     |
| Tenderer Class          | As per Tender Document              |                           |                      |                       |                                     |

**Critical Dates**

|                                            |                      |                                          |                      |
|--------------------------------------------|----------------------|------------------------------------------|----------------------|
| <b>Publish Date</b>                        | 21-Aug-2026 04:00 PM | <b>Bid Opening Date</b>                  | 14-Sep-2026 12:00 PM |
| <b>Document Download / Sale Start Date</b> | 21-Aug-2026 04:00 PM | <b>Document Download / Sale End Date</b> | 11-Sep-2026 12:00 PM |
| <b>Clarification Start Date</b>            | 21-Aug-2026 04:00 PM | <b>Clarification End Date</b>            | 07-Sep-2026 05:30 PM |
| <b>Bid Submission Start Date</b>           | 21-Aug-2026 04:00 PM | <b>Bid Submission End Date</b>           | 11-Sep-2026 12:00 PM |

**Tender Documents**

|                     |      |                      |                |                       |                       |
|---------------------|------|----------------------|----------------|-----------------------|-----------------------|
| NIT Document        |      |                      |                |                       |                       |
|                     | S.No | Document Name        | Description    | Document Size (in KB) |                       |
|                     | 1    | Tendernotice_1.pdf   | Tender Notice  | 305.53                |                       |
| Work Item Documents |      |                      |                |                       |                       |
|                     | S.No | Document Type        | Document Name  | Description           | Document Size (in KB) |
|                     | 1    | Tender Documents     | tendernew.pdf  | TENDER DOCUMENT       | 2522.65               |
|                     | 2    | BOQ                  | BOQ_969988.xls | BOQ                   | 282.50                |
|                     | 3    | Additional Documents | tech.xls       | TECHNICAL             | 34.50                 |

**Auto Extension Corrigendum Properties for Tender**

|                  |                                                      |                                            |
|------------------|------------------------------------------------------|--------------------------------------------|
| <b>Iteration</b> | <b>No. of bids required for bid opening a tender</b> | <b>Tender gets extended to No. of days</b> |
| 1.               | 3                                                    | 7                                          |
| 2.               | 3                                                    | 5                                          |

**Bid Openers List**

|             |                            |                        |                         |
|-------------|----------------------------|------------------------|-------------------------|
| <b>S.No</b> | <b>Bid Opener Login Id</b> | <b>Bid Opener Name</b> | <b>Certificate Name</b> |
| 1.          | milton@nitt.edu            | Milton B               | B MILTON                |
| 2.          | chandrang@nitt.edu         | HEMACHANDRAN G         | HEMACHANDRAN G          |
| 3.          | askumar@nitt.edu           | Ashok Kumar            | A S Ashok Kumar         |

**Tender Properties**

|                                        |        |                                                       |                       |
|----------------------------------------|--------|-------------------------------------------------------|-----------------------|
| <b>Auto Tendering Process allowed</b>  | No     | <b>Show Technical bid status</b>                      | Yes                   |
| <b>Show Finance bid status</b>         | Yes    | <b>Stage to disclose Bid Details in Public Domain</b> | Technical Bid Opening |
| <b>BoQ Comparative Chart model</b>     | Normal | <b>BoQ Compartive chart decimal places</b>            | 2                     |
| <b>BoQ Comparative Chart Rank Type</b> | L      | <b>Form Based BoQ</b>                                 | No                    |

**TIA Undertaking**

|             |                                    |                                    |                                           |
|-------------|------------------------------------|------------------------------------|-------------------------------------------|
| <b>S.No</b> | <b>Undertaking to Order</b>        | <b>Tender complying with Order</b> | <b>Reason for non compliance of Order</b> |
| 1           | <a href="#">PPP-MII Order 2017</a> | Agree                              |                                           |
| 2           | <a href="#">MSEs Order 2012</a>    | Agree                              |                                           |

**Tender Inviting Authority**

|                |                                                            |
|----------------|------------------------------------------------------------|
| <b>Name</b>    | The Executive Engineer                                     |
| <b>Address</b> | The Executive Engineer Estate Maintenance Department, NITT |

**Tender Creator Details**

|                     |                      |
|---------------------|----------------------|
| <b>Created By</b>   | Ravula Chandrashekar |
| <b>Designation</b>  | Assistant Registrar  |
| <b>Created Date</b> | 20-Aug-2026 04:49 PM |



# NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 15

Web: [www.nitt.edu](http://www.nitt.edu)

Phone: 0431-2503830

## e-Procurement Notice

Ref: NITT/EMD/AMC/CVL/Tender/2026-27/10

Dated: 21.08.2026

### **E-TENDER FOR ANNUAL REPAIR AND MAINTENANCE OF CIVIL WORKS FOR INSTITUTE & QUARTERS ZONES AT NIT-TRICHY.**

Online tenders are hereby invited in **Two Bid System** from Indian Nationals for **Annual Maintenance Contract for Civil Works for Institute & Quarters Zones at NIT-Trichy**. Bidders can download complete set of bidding documents from e- procurement Platform <https://eprocure.gov.in/eprocure/app> from **21.08.2026** onwards. Bidders need to submit the bids online for the interested items by uploading all the required documents through <https://eprocure.gov.in/eprocure/app>.

**Last Date/ Time for receipt of bids through e-procurement is: 11.09.2026(12.00 Hrs)** (Server time).

Late bids shall not be accepted

For further details regarding Tender Notification & Specifications please visit website:

<https://eprocure.gov.in/eprocure/app> and [www.nitt.edu](http://www.nitt.edu)

#### CRITICAL DATE SHEET

|                                         |                                              |
|-----------------------------------------|----------------------------------------------|
| <b>Published Date</b>                   | <b>21.08.2026(16.00Hrs)</b>                  |
| <b>Bid Document Download Start Date</b> | <b>21.08.2026(16.00Hrs)</b>                  |
| <b>Clarification Start Date</b>         | <b>21.08.2026(16.00Hrs)</b>                  |
| <b>Clarification End Date</b>           | <b>07.09.2025 (17.30Hrs)</b>                 |
| <b>Pre-Bid Meeting Date</b>             | <b>31.08.2026(11.00Hrs)</b>                  |
| <b>Bid Submission Start Date</b>        | <b>21.08.2026(16.00Hrs)</b>                  |
| <b>Bid Submission End Date</b>          | <b>11.09.2026(12.00Hrs)</b>                  |
| <b>Bid Opening Date (Technical)</b>     | <b>14.09.2026 (12.00Hrs)</b>                 |
| <b>Bid Opening Date (Price)</b>         | Will be announced after technical evaluation |

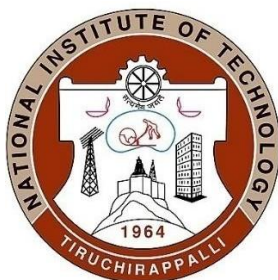
**Note :\***Bidder should submit the EMD as specified in the tender. The hard copy should be posted / couriered / deposit in person to the Central Dispatch section / Tender Inviting Authority, within bid submission due date and time as indicated in the tender. Scanned copy of the instrument should be uploaded as part of the offer.

# NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 15

## Estate Maintenance Department

Web: [www.nitt.edu](http://www.nitt.edu)

Phone: 0431-2503830



## Tender Document (e - Procurement)

|                                          |   |                                                                                                      |
|------------------------------------------|---|------------------------------------------------------------------------------------------------------|
| Name of Work/ Service                    | : | <b>Annual Maintenance Contract for Civil Works for Institute &amp; Quarters Zones at NIT-Trichy.</b> |
| Tender Notification No                   | : | <b>NITT/EMD/AMC/CVL/Tender/2026-27/10</b>                                                            |
| Date                                     | : | <b>21.08.2026</b>                                                                                    |
| Name of the Department                   | : | <b>Estate Maintenance Department</b>                                                                 |
| EMD Amount                               | : | <b>Rs. 4,61,500/-</b>                                                                                |
| Last Date & Time of submission of Tender | : | <b>11.09.2026 (12.00Hrs)</b>                                                                         |
| Address for submission of Tender         | : | <b>THE DIRECTOR,<br/>NATIONAL INSTITUTE OF TECHNOLOGY<br/>TIRUCHIRAPPALLI-15.</b>                    |
| Date & Time of opening of technical bid  | : | <b>14.09.2026 (12.00Hrs)</b>                                                                         |

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# **BIDDING PROCEDURE**

## **Section I: Instructions for Online Bid Submission**

Instructions to the Bidders to submit the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>.

1. Possession of valid Digital Signature Certificate (DSC) and enrollment / registration of the contractors / bidders on the e-Procurement/e-tender portal are prerequisite for e-tendering.
2. Bidder should register for the enrollment in the e-Procurement site using the “[Online Bidder Enrollment](#)” option available on the home page. Portal enrollment is generally free of charge. During enrollment / registration, the bidders should provide only valid and true information including valid E-mail id. All the correspondence shall be made directly with the contractors/bidders through E-mail id as registered.
3. Bidder need to login to the site through their user ID / password chosen during enrollment / registration.
4. Then the Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by SIFY / TCS / nCode / eMudra or any other Certifying Authority recognized by Controller of Certifying Authorities (CCA) India on eToken / Smartcard, should be registered.
5. The registered DSC only should be used by the bidder in the transactions and should ensure safety of the same.
6. Contractor / Bidder may go through the tenders published on the site and download the tender documents/schedules for the tenders.
7. After downloading / getting the tender document/schedules, the Bidder should go through them carefully and then submit the documents as required, otherwise bid will be rejected.
8. Any clarifications may be sought online through the tender site, through the contact details or during pre-bid meeting if any. Bidder should take into account the corrigendum if any published before submitting the bids online.
9. Bidder may log in to the site through the secured login by the user id / password chosen during enrolment / registration and then by submitting the password of the e-Token / Smartcard to access DSC.
10. Bidder may select the tender in which he / she is interested in by using the search option and then move it to the ‘my tenders’ folder.
11. From my tender folder, he / she may select the tender to view all the details uploaded there.
12. It shall be deemed that the bidder has read and understood all the terms and conditions before submitting the offer. Bidder should go through the tender schedules carefully and upload the documents as asked; otherwise, the incomplete bid shall stand rejected.
13. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and ordinarily it shall be in PDF / xls / rar / jpg / dwf formats. If there is more than one document, all may be clubbed together and provided in the requested format. Bidders Bid documents may be scanned with 100 dpi with black and white option. It is advisable that each document to be uploaded through online for the tenders should be less than 2 MB. If any document is more than 2MB, it can be reduced through zip / rar and the same if permitted may be uploaded. The file size being less than 1 MB the transaction uploading time will be very fast
14. The Bidders can update well in advance, the documents such as certificates, annual report detail etc., under “My Space option” and these can be selected as per tender requirements and then send along with bid documents during bid submission. This will facilitate the bid submission process faster by reducing upload time of bids.
15. Bidder should submit the Tender Fee / EMD as specified in the tender. The hard copy should be posted / couriered / given in person to the Tender Inviting Authority, within bid submission due date and time as indicated in the tender. Scanned copy of the instrument should be uploaded as part of the offer.
16. The bidder has to select the payment option as offline to pay the Tender FEE / EMD as applicable and enter details of the instruments.
17. The details of the DD / any other accepted instrument, physically delivered, should tally with the details



available in the scanned copy and the data entered during bid submission time, otherwise submitted bid shall not be acceptable or liable for rejection.

18. While submitting the bids online, the bidder shall read the terms and conditions and may accept the same to proceed further to submit the bid packets.
19. The bidder has to digitally sign and upload the required bid documents one by one as indicated. Very act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that they have read, understood and agreed with all clauses of the bid document including General conditions of contract without any exception.
20. The bidder has to upload the relevant files required as indicated in the cover content. In case of any irrelevant files, the bid may be rejected.

## **Section-II: PRICE BID**

21. If the price bid format is provided in a spread sheet file like BoQ\_XXXXX.xls, the rates offered should be entered in the allotted space only and uploaded after filling the relevant columns. The Priced-bid / BOQ template shall not be modified / replaced by the bidder; else the bid submitted is liable to be rejected for the tender.
22. The bidders are advised to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission due date and time (as per Server System Clock). The TIA shall not be held responsible for any delay or the difficulties faced during the submission of bids online by the bidders.
23. The time settings fixed in the server side and displayed at the top of the tender site, shall remain valid for all actions of requesting, bid submission, bid opening etc., in the e-Tender system. The bidders should follow such time during bid submission.

PART-A

TECHNICAL BID

# NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 15

Web: [www.nitt.edu](http://www.nitt.edu)

Phone: 0431 –250 3830



## TENDER DOCUMENT (TECHNICAL BID)

|                           |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
| <b>Name of work</b>       | <b>Annual Maintenance Contract for Civil Works for Institute &amp; Quarters Zones at NIT-Trichy.</b> |
| <b>Value of work</b>      | <b>Rs.1,53,81,300/- (Incl. GST)</b>                                                                  |
| <b>Tender Enquiry No.</b> | <b>NITT/EMD/AMC/CVL/Tender/2025-26/03<br/>Dt: 21.08.2026</b>                                         |
| <b>Period of Contract</b> | <b>12 Months (Extendable for 2 years on yearly basis based on performance)</b>                       |



**NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPALLI - 15**  
**Estate Maintenance Department**

**NOTICE INVITING TENDER**

|     |                                                |                                                                                                                                                                                                                     |
|-----|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01. | Name of Work                                   | <b>Annual Maintenance Contract for Civil Works for Institute &amp; Quarters Zones at NIT-Trichy.</b>                                                                                                                |
| 02. | Estimated Cost                                 | Rs.1,53,81,300/- (Incl. GST)                                                                                                                                                                                        |
| 03. | Earnest Money Deposit(Refundable)              | Rs.4,61,500/- (Four Lakh Sixty-One Thousand Five Hundred Only)<br>*To be remitted through Demand Draft drawn infavor of the Director, NITT.                                                                         |
| 04. | Period                                         | <b>12 Months</b><br>upon completion of the initial 12-month period, the contract may be extended for an additional two years or part thereof subject to performance and at the sole discretion of NIT Trichy.       |
| 05. | Cost of Tender Document                        | NIL                                                                                                                                                                                                                 |
| 06. | Last Date and Time for submission of E-Tender. | <b>11.09.2026 (12.00 Hrs)</b> (Server time)<br>(Late bids shall not be accepted)                                                                                                                                    |
| 07. | Date and Time of Pre-Bid Meeting               | <b>31.08.2026(11.00 Hrs).</b><br>(Venue: Estate Maintenance Department,National Institute of Technology, Tiruchirappalli-620015)                                                                                    |
| 08. | Date & Time of Opening Technical bid           | <b>14.09.2026 (12.00 Hrs)</b><br>(Venue: Stores and Purchase Section, National Institute of Technology, Tiruchirappalli-620015)                                                                                     |
| 09. | Date and time of Opening Financial Bid         | Following the evaluation of technical bids, the technical evaluation will be uploaded on the CPP portal. The financial bids will be opened only for those bidders who qualify. No separate intimation will be sent. |
| 10. | Address for submission of Tender               | <b>The Director,</b><br><b>National Institute of Technology,Tiruchirappalli - 620 015</b>                                                                                                                           |
| 11. | Procedure for submission of Bid                | <b>E-TENDER</b><br>Through Central Public Procurement Portal (CPPP)<br><a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>                                                      |

## **CHECKLIST**

**Check list to evaluate the capability of the tenderer qualifying for price bid opening.**

| Sl. No | Description / Requirement from the tenderer                                                                                                                                                            | Tenderer's response should be clear, firm, complete & legible. If necessary, separate sheet shall be used. |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 1      | Name & Complete address of the tenderer with contact details:                                                                                                                                          |                                                                                                            |
| 2 (a)  | Details of EMD<br>Demand Draft no.<br>Amount Rs.:<br>Bank details:<br>(Bids without EMD will be summarily rejected)                                                                                    |                                                                                                            |
| 2 (b)  | NSIC /MSME Registration No:<br>Company Name & Address:<br>Validity:<br>Product for which registered:                                                                                                   |                                                                                                            |
| 3      | Status of the tenderer:<br>Proprietorship / Partnership / Private Limited. / Public Limited                                                                                                            |                                                                                                            |
| 4      | Details of Contract Registration with Govt.depts. Class and value                                                                                                                                      |                                                                                                            |
| 5 (a)  | Details of PAN                                                                                                                                                                                         |                                                                                                            |
| 5 (b)  | Employees provident fund Registration:                                                                                                                                                                 |                                                                                                            |
| 5 (c)  | Employees State Insurance Registration:                                                                                                                                                                |                                                                                                            |
| 5 (d)  | GST Registration:                                                                                                                                                                                      |                                                                                                            |
| 5 (e)  | Labour license                                                                                                                                                                                         |                                                                                                            |
| 6      | Copy of Income Tax Return for the last 5 financial years.                                                                                                                                              |                                                                                                            |
| 7      | Details of similar works executed with Central/State Government / Central/State Autonomous Bodies / Public Sector Undertaking/Private limited company /Reputed Education Institute during last 7 years | Use separate sheet to furnish complete details                                                             |

**Note:** Relevant certificates for items 2b-7 are to be attached.

I/We hereby certify that the information furnished above and the attached documents as proof of the information are true and correct to the best of our knowledge.

I/We understand that these details are required to decide our eligibility to participate in the tender process and opening of our price bid thereon.

I/We also authorize the Director / NITT or representative of NITT to approach the end client to verify the source of the certificate, our competence, if required, for processing the tender.



# NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

## NOTICE INVITING TENDER

Tender Notification No.: NITT/EMD/AMC/CVL/Tender/2025-26/03 Dated: 21.08.2026

National Institute of Technology, Tiruchirappalli invites E - tender, in **Three cover system (1. EMD 2. Technical Bid and 3. Financial Bid) up to 12.00 p.m. on 11.09.2026** following work:

| Name of work                                                                              | EMD            | Period                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Annual Maintenance Contract for Civil Works for Institute & Quarters Zones at NIT-Trichy. | Rs. 4,61,500/- | <b>12 Months</b><br>upon completion of the initial 12-month period, the contract may be extended for an additional two years or part thereof subject to performance and at the sole discretion of NIT Trichy. |

### **I. ELIGIBILITY CRITERIA: -**

i) Contractors who fulfill the following criteria are eligible to submit the tender. Experience of having successfully completed similar Civil Annual/Periodic Maintenance works during the last 7 (Seven) years ending last day of the month previous to the one in which tender is invited (i.e.31-07-2026) that should be either of the following:

a. Three similar completed works (at least one of them should be for Central / State Government/Central/State Autonomous Bodies / Public Sector Undertaking/Private limited company /Reputed Education Institute) each annual value not less than Rs.61,52,520/- (40%).

OR

b. Two similar completed works (at least one of them should be for Central/State Government / Central/State Autonomous Bodies / Public Sector Undertaking/Private limited company /Reputed Education Institute) each annual value not less than Rs.76,90,650/-(50%).

OR

c. One similar completed work (Central/State Government / Central/State Autonomous Bodies / Public Sector Undertaking/Private limited company /Reputed Education Institute) annual value not less than Rs.1,23,05,040/-(80%).

***Similar shall mean “Annual/Periodic repair & maintenance of civil works for Residential area / Hostel Area & Academic Area/Industrial Area”.***

The intending bidders has to submit the similar work experience certificate furnishing with all details of the format provided at Form-B. Necessary documentary proof like **Work order along with Completion Certificates/Performance Certificate** in case of works carried out for Government Departments and TDS certificate in case of works carried out for private parties should be enclosed in addition to the completion certificates. **The work order without completion certificate will not be considered for evaluation of the tender.**

“Cost of work” for this clause shall mean final cost including GST as mentioned in the final bill carried out under single contract including cost of materials, if any, supplied by clients. However, the cost of materials issued free of cost shall not be considered for calculating the cost of work.

ii) The bidder Should have an average annual financial turnover of not less than **Three (03) Crores** during the preceding Three Financial Years. Balance sheets should be duly audited by Chartered Accountant. Year in which no turnover is shown would also be considered for working out the average. (Scanned copy of

Audited Balance Sheet to be uploaded).

- iii) Should have profit in the last financial year.
- iv) Bidder has to submit tax returns filed for the preceding three financial years (Scanned copy of returns filed to be uploaded).
- v) Should have a solvency of not less than **Rupees Sixty-Two (62) Lakhs** from any Nationalized / scheduled bank issued not earlier than six months from tender closing date.
- vi) Separate Registration Code No. for ESI, EPF and PAN on contractor's name / firm.
- vii) Contractor has to submit live Agency/Company Registration certificate.
- viii) To become eligible, the tenderer shall have to furnish an affidavit as per Annexure-1 in the tender.

## **II. INSTRUCTIONS ON TECHNICAL BID**

### **1. General**

- 1.1 The “TECHNICAL BID” (application to qualify) shall contain data and information to enable the institute to draw up a list of qualified agencies who can take part in the tender process and whose “Financial Bids” (Tenders) can be processed further.

The following mandatory documents to be submitted with online bid submission:

1. EMD scanned copy shall be submitted along with the technical bid and original have to be submitted in the office of the tender inviting authority \*\*
  2. Solvency certificate as for an amount of **Rs. 62 Lakhs** or Net Worth Certificate from certified Chartered Accountant.
  3. Registration details with the Govt. Department (CPWD, BSNL, MES, Central PSUs, Central Government bodies, State Government bodies, State PSU's).
  4. GST Registration Certificate
  5. EPF & ESI Registration
  6. Copy of PAN card
  7. Financial Information in **Form-A**
  8. Performance report of works executed in **Form-B**
  9. Structure and Organization of the Agency in **Form-C**
  10. Affidavit for not being blacklisted/debarred/restrained as per **Annexure-1**
  11. Declaration about Site Inspection as per **Annexure-2**
  12. CPWD-7 as per **Annexure-3**
  13. Letter of Transmittal as per **Annexure-4**
  14. Undertaking on Not Subletting the work as per **Annexure-5**
  15. Undertaking on minimum manpower as per **Annexure-6**
  16. Acceptance of Tender Conditions **Annexure-7**
  17. Tender form **Annexure-8**
  18. Details of Similar Nature of Works Completed as per **Annexure-14**
  19. No Relationship Certificate as per **Annexure-9**
  20. Bid Security Declaration as per **Annexure-10**
  21. Electronic Fund Transfer Mandate as per **Annexure-11**
  22. Integrity Pact as per **Annexure-13**
  23. Checklist as per **Annexure-15**
- 1.2 All information called for in the enclosed forms should be furnished against the respective columns in the forms. If information is furnished in a separate document, reference to the same should be given against respective columns. Such separate documents shall be chronologically placed at the end of the prescribed application. If information is ‘nil’ it should also be mentioned as ‘Nil’ or ‘no such case’. If any particular / query is not applicable in case of the applicant, it should be stated as ‘Not applicable’. However, the applicants are cautioned that furnishing of incomplete / ambiguous information, suppression of facts and alteration of prescribed format will entail outright rejection of tender application. Application made by fax and those received late after the prescribed date and time will not be entertained.



**1.3 The bidder should sign in each page of the tender document.**

- 1.4 Overwriting should be avoided. Correction, if any, shall be made by neatly crossing out, initialing, dating and rewriting.
- 1.5 References, information and certificates from the respective clients certifying suitability, technical know-how or capability of the applicant should be signed by an officer not below the rank of Executive Engineer / Project Manager or equivalent.
- 1.6 The tenderer should furnish the complete details called for. Inadequate and incomplete details which are not as per the document are liable to be rejected. At the same time unwanted and unconnected details need not be furnished.
- 1.7 The bidders are cautioned that furnishing of incomplete / ambiguous information, suppression of facts and alteration of prescribed format will entail outright rejection of tender application.
- 1.8 Should a bidder find discrepancies or omissions in the tender documents or should there any doubt as to their meaning, he should at once address the authority inviting the tender for clarification well before the due date so as to submit the tender in time. No extension of time shall be given for submission of the tender on any account.
- 1.9 Conditional tender, late tenders, tenders containing prima-facie absurd rates, tenders which are in complete or otherwise considered defective, tenders not in accordance with the tender conditions there in contained and the tenders not in original ARE LIABLE TO BE REJECTED.
- 1.10 The bidder may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. However, the bidders are also advised not to attach superfluous / additional information beyond the requirement of the Bid. No information will be entertained after technical bid is submitted, unless it is called for by the EE / EMD / NITT
- 1.11 Documents submitted in connection with the tender will be treated as confidential and will not be returned.

**2. Definitions**

In these documents the following words and expressions have their meaning here by assigned to them.

- a. Employer means The Director, NIT, and Tiruchirappalli.
- b. Applicant means individual, proprietary firm, and firm in partnership, limited company (private, public and corporation).

**3. Method of Application**

- 3.1 If an individual makes the application, it shall be signed by him above his full type written name and current address.
- 3.2 If a proprietary firm makes the application, it shall be signed by the proprietor (with seal) above his full typewritten name & the full name of his firm with its current address.
- 3.3 If the application is made by a firm in partnership, it shall be signed by (with seal) all the partners of the firm above their full typewritten names and current addresses or alternatively by a partner holding power of attorney for the firm in which case, a certified copy of the power of attorney shall accompany the application. A certified copy of the partnership deed along with current addresses of all the partners of the firm shall also accompany the application.
- 3.4 If a limited company or a corporation makes the application, it shall be signed by a duly authorized person holding power of attorney for signing the application, in which case, a certified copy of the power of attorney shall accompany the application. Such limited company or corporation may be required to furnish satisfactory evidence of its existence. The applicant shall also furnish a copy of the Memorandum and Articles of Association duly attested by a Notary Public.

#### **4. Final Decision-Making Authority**

The Director, NIT Tiruchirappalli reserves the right to accept or reject all or any of the applications and to annul the qualification process / tender process at any time without assigning any reason or incurring any liability to the applicants.

#### **5. Site Visit**

The applicant is advised to visit NITT campus where the works are to be carried out at his own cost and examine the surroundings and collect all information that he considers necessary for proper assessment of prospective assignment during working hours with prior permission from the Executive Engineer.

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed.

The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

Bidder has to attach the **Annexure-2** along with bid document.

#### **6. Financial Information**

The applicant should furnish the annual financial statement for the last 5 years in Form – A.

#### **7. Experience in Similar Works**

The applicant should furnish the following: -

The applicant should furnish the list of all works of similar nature successfully completed during last 7 years and are now in progress in Form – B. Such Particulars duly authenticated / certified by an officer not below the rank of Executive Engineer or equivalent should be furnished separately for each work.

In case of combined work order along with other works, the work value for Civil Work should be separately indicated from client department and that work value alone will be considered for evaluation.

#### **8. Organizational Information**

Applicant is to submit the following information in respect of his organization in **Form C**.

- a. Name and postal address including telephone, fax number, E-mail ID, etc.
- b. Copies of original documents defining the legal status, place of registration and principal places of business.
- c. Names and titles of Directors and officers to be concerned with the work, with designation of individuals authorized to act for the organization.
- d. Information on any litigation / arbitration in which the applicant was involved during the last five years including any current litigation / arbitration in process.
- e. Authorization for employer to seek detailed reference from clients to whom works were carried out.

#### **9. Tender Submission and Decision**

After the details submitted by the applicant regarding his financial capacity, previous experience etc. are studied and evaluated, a list of agencies who can take part in the tendering process shall be prepared and all concerned will be intimated. The financial bids (Tender) of the applicants who have not been

qualified after evaluation, shall be returned unopened. Qualified tenders shall be opened by the committee constituted for this purpose on the date and time to be intimated, in the presence of the tenderers or their authorized representatives who may choose to present.

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NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPALLI -620 015.  
Estate Maintenance Department

**III. INSTRUCTION TO TENDERERS**

**1. General**

- 1.1 Time is the essence of the contract. Being a time bound maintenance, the contractor should make all efforts to complete the individual works in allotted time.
- 1.2 The tender value includes cost of cement, reinforcement steel, structural steel, labour cost and all other related material required for maintenance of the work.
- 1.3 Even though the overall AMC period is indicated as **12 months (or extended period)**, the work shall be completed at the time bound manner progressively / individual part work wise and handed over as per schedule if any.
- 1.4 The tenderers are advised to visit the site and get themselves acquainted with the site conditions before submitting the offer.
- 1.5 This being percentage rate contract, the contractor is required to carry out any work for any quantity without any reservation at his overall tender percentage that depends on the NIT's requirement then and there.
- 1.6 **Bid validity period is 180 days from the date of opening of the tender. If lowest tenderer withdraws his tender before the said period or issue of acceptance, whichever is earlier or makes any modification in the terms and conditions of the tender which are not acceptable to the Institute, then NITT, shall without prejudice to any other right or remedy, beat liberty to forfeit 100% of the said earnest money with blacklisting the firm for TWO YEARS.**
- 1.7 **Quoted percentage rate will be firm throughout the contract period of Twelve Months and including extended period or till completion of work, once awarded and no cost escalation is allowed on any account.**
- 1.8 **The bidder shall quote a percentage rate (+/-) on the above contract value. The percentage quoted by the successful bidder shall be uniformly applicable to all items specified in Schedule-A of the tender document. Accordingly, the rates payable for individual items shall be derived by applying the quoted percentage over or below the corresponding item rates in Schedule-A.**
- 1.9 The rate offered is for finished item of works and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, contingencies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete with applicable GST as extra.
- 1.10 Probable operation of various items is shown in DSR-2023 is an indication. This being an annual maintenance contract, operation of each item and its quantum cannot be predicted at this stage. **The successful tenderer is expected to carry out any work for any quantity without any reservation.**

Some of the items in BOQ may be operated more or less or even not operated but the quoted percentage rates would take care of such factors. The percentage rate quoted shall be the basis for arriving at the lowest tenderer among the participants.

- 1.11 While quoting the percentage rate, the contractor has to account for statutory payments towards ESI & EPF to arrive at workability percentage of rates, apart from his establishment.
- 1.12 The work shall be carried out as per drawings released then and there, BIS/CPWD specifications, and standard code of practice and as per the instructions of Engineer-in charge.
- 1.13 **In the price bid, tenderer has to quote percentage rate both in figures and in words considering all the items and specification provided in the BoQ. In case of additional item (other than BoQ) are required to be executed, the rates shall be calculated as below.**
  - a. **If the items are available in DSR-2023, the payable rate shall be (DSR-2023rate)  $\pm$  contractor quoted percentage.**
  - b. **If the item is not available in DSR-2023/ BHEL Scheduled Rates/ NITT approved rates/ market rate will be operated (as enclosed in the tender)  $\pm$  contractor quoted percentage.**
- 1.14 Since the responsibility for the quality, workmanship and accuracy of any work being carried out under this contract lies with the contractor, the contractor should ensure that no work is done without the presence of contractor's representative at the work spot, whose strength depends on the value of contract awarded. The contract should arrange for surveying construction site at his own cost.
- 1.15 The decision of Institute authority shall be final and binding on the contractor regarding clarification of items in this tender schedule.
- 1.16 The works contract to be entered into with the successful tenderer will be governed by the CPWD Works Manual in force & shall strictly adhere to various labour laws in force.
- 1.17 To safeguard the persons working at height in roof, wall etc., sufficient number of Industrial safety nets shall be provided at tenderer's cost in appropriate level and locations. The working hand including Supervisors, Engineers should wear the personal protective items and safety measures such as helmets, safety belts, shoes, etc., before entering into working place.
- 1.18 The tenderer has to deploy adequate labour of required categories such as Unskilled, Semiskilled, Skilled, Mason, Carpenter, Plumber, Welder, Fitter, Mistry, technically experienced, etc. so as to execute the works simultaneously in all areas of work.
- 1.19 Expertise labour only to be engaged for specialized items of work like laying of ceramic tiles, marbles, cuddapah slabs, granite slabs and false ceiling, partition, wall paneling, architectural finishing etc. and work experienced persons shall be engaged for fabrication, water supply, railway track laying and aligning works, sewerage system work, etc.
- 1.20 The contractor shall follow norms of NITT security system for movement of men & materials within the complex.
- 1.21 Evaluation of the bidders will be done based on lowest percentage in Price Bid Format. The contract would be awarded to the lowest bidder. If two or more bidders quote the same L1 percentage, then sealed revised offer will be obtained from them and the lowest rate among them will be the L1 percentage for award of all the subheads.
- 1.22 In case the revised offer also results in a tie, then the contract will be awarded to the bidder who having highest average annual turnover.
- 1.23 All the materials to be used in the work and the nature of work shall conform to the respective CPWD & BIS and National Building Organization, Standard Specifications forming part of "DELHI STANDARD SCHEDULE OF RATES" specifications and shall be got approved by the Engineer-in-

charge before actual incorporation in the work.

- 1.24 All materials brought by the Contractor for incorporation in the work shall be got inspected and approved by the Engineer-in-charge before they are incorporated in the work.
- 1.25 The materials supplied to the works shall be as per the given annexure-I.
- 1.26 All safety measures are to be followed during execution of work, particularly during blasting and only licensed blaster should be engaged for this purpose. Sufficient care shall be taken by the contractor during excavation to avoid damages to the buried pipe lines, cables and other infrastructure if any etc. Controlled blasting including muffling can be carried out with prior permission from safety department. Damages caused if any shall be rectified at contractor's risk and cost.
- 1.27 The contractor should extend fullest co-operation with the third party agencies engaged, if any by NITT, to adhere the Quality Control Procedures ensuring quality.
- 1.28 The applicant should have sufficient number of employees for proper execution of contract. The applicant should submit a list of his employees with their age (Not more than 58 years) Qualification, Experience and Required license stating clearly how they would be involved in this work.
- 1.29 The applicant's performance in respect of completed works and ongoing works should be certified by an officer not below the rank of Executive Engineer or equivalent and should be obtained.
- 1.30 Inspection committees will carry out surprise visit to tenderers clients' places and their reports, form valuable inputs for the short-listing process.
- 1.31 Even though an applicant may satisfy the above requirements, he would be liable for disqualification if he has:
  - a. Made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the qualification document.
  - b. Record of poor performance such as, abandoning work, not properly completing the contract, not meeting the statutory requirement, or financial failures / weaknesses, terminated in the middle of the contract period etc.
- 1.32 The contractor should extend full co-operation to the other contractors who may be doing other works in the same areas to enable them to execute their portions of work without any delay or difficulty.
- 1.33 Tenderers are requested to furnish the duly filled in E-format attached as separate sheet along with a cancelled cheque leaf to accept Electronic fund transfer / R T G S transfer for any payment from NITT, Trichy.
- 1.34 **No advance / mobilization advance will be given by NITT.**
- 1.35 **NITT reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract awarded against a different Tender.**
- 1.36 The Contractor shall have to remit EPF & ESI contributions at the rates applicable under law to the authorities concerned for the total wages paid / abide by BOCW Act / Coverage in Group Insurance Scheme / All Risk Policy.
- 1.37 The contractor's responsibility under this contract shall commence from the date of Receipt of the LOI by the tenderer. The scheduled period of completion for this work is as mentioned in page No. 01, and the Contractor will have to plan his work accordingly.
- 1.38 Generally, the maintenance period for any work under NITT will be SIX (6) MONTHS from the date of completion of each work.
- 1.39 Any deviation to this tender terms & condition and schedules of this tender will cause total rejection

of the offer submitted

- 1.40 Incomplete offers will become liable for rejection.
- 1.41 Tenders along with completed Qualification Documents received in time will be opened at Stores and Purchase Section, NIT Trichy. In the event of this day being declared a holiday, the tenders will be opened at the scheduled time and place on next working day.
- 1.42 Other details and the method of evaluating the capacity of the prospective contractors are detailed elsewhere in this document.
- 1.43 The Director, NIT, Tiruchirappalli reserves the right to accept or reject any or all the tenders without assigning any reason thereof.
- 1.44 NITT reserves the right to disqualify such bidders who had a record of not meeting the contractual / statutory obligations against earlier contract entered into with NITT.
- 1.45 After award of the contract, if performance of the selected contractor is found to be not satisfactory during the trial period of three months, NITT reserves the right to terminate the contract at any time by giving one month notice and forfeiting the security deposit to compensate the extra cost to be incurred by NITT in carrying out the service through alternate agency. If the performance is satisfactory, the contract will be automatically extended for remaining nine more months.
- 1.46 In the event of the disputes, differences, claims and questions arising between the parties here to arising out of this agreement or anyway relating here to or any term, condition or provisions herein mentioned or the validity, interpretation, thereof or otherwise in relation hereto, all such dispute claims or question shall be referred to Sole Arbitrator appointed by the NITT. Such arbitration shall be held in accordance with the provisions of arbitration and conciliation act 1996 or re-enactment thereof for the time being in force and arbitration proceedings shall be held at Tiruchirappalli. All legal disputes shall be subject to the jurisdiction of court at Tiruchirappalli.
- 1.47 NITT will not be bound by any power of attorney granted by the tenderer or by changes in the composition of firm made subsequent to the execution of the contract. They may however recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contract concerned.
- 1.48 If the tenderer deliberately gives wrong information in his tender or creates conditions favorable for the acceptance of his tender, NITT reserves the right to reject such tender at any stage.
- 1.49 The contractor should execute an agreement in the non – judicial stamp, incorporating the various terms and conditions. The expenses for completing and stamping the agreement shall be paid by the contractor.
- 1.50 If the lowest percentage quoted is not within the justified limit, negotiation will be conducted with the Lowest (L1) bidder.
- 1.51 Tenderers shall not increase their quoted rate. In case NITT negotiates for reduction of rate, such negotiation shall not amount to cancellation or withdrawal of the original offer and the rate originally quoted shall be binding on the tenderers for a period of 180 days from the date of opening of tenders.
- 1.52 Canvassing in any form in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection
- 1.53 TENDERERS should fill in all the required particulars in the blank spaces provided for this purpose in the tender documents and also sign each and every page of Tender Documents including the drawings attached there to, before submitting their tender.
- 1.54 Conditional and Un witnessed tenders, tender containing absurd rates and amounts tenders which are incomplete or otherwise considered defective and tenders not in accordance with the tender

conditions laid down by the Accepting Officer are liable to be rejected.

- 1.55 Tenders not submitted on the prescribed form are liable to be rejected.
- 1.56 **This tender notice shall be deemed to form an integral part of the contract to be entered into for this work.**
- 1.57 The tenderers are advised to go through the condition stipulated in Tender document & code of conduct for Safety of Contract Laborer' in details. Any violation thereof will invite punitive action being taken against them. While quoting the rate all the above factors are to be considered.

## **2. DEFAULT OF CONTRACTOR**

LD / Penalty clause is applicable as per CPWD Works Manual in force. However, the Contractor shall immediately attend the defects and complaints noticed at site. The Contractor shall provide and develop a system for attending to Repair and Maintenance of all services immediately on call, which includes defects identifications and it's immediate rectification so that services are not affected. It shall be the sole responsibility of this agency that all the services are undisturbed while attending to the repairs and the entire facilities are in service round the clock during the currency of the contract.

If the performance of the contract is not satisfactory and not corrected within 15 days of receiving notice, then NITT shall be at liberty to terminate the contract with due notice and get the work executed through alternate agency at the risk and cost of the defaulted Contractor and payment to the defaulter, if any shall be released only after the deduction of work through agency for completion of whole work allotted to the earlier contractor

## **3. PENALTY FOR COMPLAINTS**

Repair and Maintenance related complaints (Other than Emergency Complaints) that are required to be attended and submitted **within 7 days** as directed by Engineer-in-charge and failing which a **fine of 5%** per day to a maximum 30% of that particular complaint cost (related item) as per the recommendation of Engineer-in-charge will be recovered in the bill. The overall penalty will be limited upto 10% of the work order value/Annual executed value.

The Emergency complaints need to be completed within 24 hrs. as directed by Engineer – in-Charge. Delay in completion of these emergency complaints will attract a penalty of 5% per day subjected to maximum of 30% of that particular complaint/work value.

## **4. LIQUIDATED DAMAGES FOR SPECIAL WORKS:**

Any special work based on contingencies may be given after obtaining approval from competent authority which may include subset of items from bill of quantities at the quoted rates and also additional items (rate arrived as per CPWD norms). In case of delay in executing of such works, Liquidated damages will be levied at the rate **of 0.5%** of the cumulative executed value of such group of items per week of delay or part thereof will be recovered for a maximum of 10% of cumulative executed value of such group of items.

## **5. RISK AND COST:**

If the Contractor fails to execute any complaint or defect/special works and if in the opinion of Engineer in- charge and the delay is on the part of the agency, the NITT can execute the work at the risk and cost of the contractor.

In such cases, the additional cost incurred shall be recovered from the contractor as given below:

$$\text{Penalty Amount} = [(P-Q) + (P \times R/100)]$$

Where,

$$P = \text{Value of work executed by engaging alternate agency.}$$

$$Q = \text{Value of Work as per awarded rates to the defaulting contractor}$$



R = Overhead Factor to be taken 12.5%

In case (P-Q) is less than 0 (zero), value of (P-Q) shall be taken as 0 (zero).

## **6. REQUIREMENT OF TECHNICAL STAFF FOR THE WORK:**

The contractor immediately on award of work, is to intimate the details i.e. name(s), qualifications, and address (es) of the qualified Engineer(s) planned to be employed by him as per terms of the contract and to ensure that the said engineer(s) is/are actually available at site to supervise construction at all stages and note down the instructions conveyed by the Engineer-in-Charge.

- a. Engineer(s) and/or supervisor(s) deployed as per stipulation in the contract shall look after only the work under contract and no other work and shall be available exclusively for that particular work.
- b. Even if the contractor (or partner in case of firm/company) is himself an Engineer/ Overseer/ supervisor, it is necessary on part of the contractor to employ Engineer(s) and/or/ for the supervision of the work(s) as per stipulation.

**6.1 The following minimum technical staff shall be engaged from start of contract till the end of contract for which separate payment will not be given. The salary incurred for the below mentioned manpower to be added in the quoted percentage.**

| Sl. No. | Manpower          | No. of Manpower | Min. Qualifications                        | Recovery per Absence |
|---------|-------------------|-----------------|--------------------------------------------|----------------------|
| 1       | Graduate Engineer | 1               | B. Tech (Civil) with 5 Years of Experience | Rs. 1000/-           |
| 2       | Diploma Engineer  | 2               | Diploma (Civil) with 3 Years Experience    |                      |
| 3       | Skilled Carpenter | 3               |                                            |                      |
| 4       | Skilled Plumber   | 3               |                                            |                      |
| 5       | Skilled Mason     | 2               |                                            |                      |
| 6       | Helper            | 2               |                                            | Rs. 500/-            |

**6.2 No extra payment will be given for engaging manpower and contractor has to quote accordingly.**

## **7. EARNEST MONEY DEPOSIT:**

Earnest Money is to be paid by each tenderer to ensure that the tenderer does not refuse to execute the work after it is awarded to him. Shall also be furnished in the form of Demand Draft in favour of The Director, NIT Tiruchirappalli. EMD in any other form will not be accepted.

Demand Draft for **Rs. 4,61,500/- (Rupees Four Lakh Sixty-One Thousand Five Hundred Only)** towards EarnestMoney Deposit which is refundable to the unsuccessful bidders. In respect of successful bidder, the same will be adjusted against the security deposit.

Tender documents received without EMD shall be summarily rejected. Original Demand Draft to be received in due date of tender, otherwise tenderer may be disqualified.

**EMD in any other form will not be accepted. Bids submitted without EMD will summarily rejected. Non-submission of Demand Draft in original to the Tender Inviting Authority, Technical Bid will be rejected.**

**No exemption of EMD for MSME/NSIC registered contractor.**

Bidder should submit the EMD as specified in the tender. The hard copy should be posted / couriered / deposit in person to the Central Dispatch section / Tender Inviting Authority, within bid submission due date and time as indicated in the tender. Scanned copy of the instrument should be uploaded as part of the offer.

Earnest Money Deposit (EMD) is to be paid by each tenderer to ensure that the tenderer does not refuse to execute the work after it is awarded to them and shall be furnished in the form of Demand Draft in favour of The Director, NIT Tiruchirappalli payable at SBI branch at NITT. EMD in any other form will not be accepted.

The format of bid security declaration form has to be submitted in the letter head of the firm/ company/ enterprises along with appropriate sign & seal (enclosed in Annexure-10).

EMD of the unsuccessful contractor shall be refunded on finalization of the contractor and the **EMD amount shall not carry any interest.**

**7.1 EMD by the Tenderer will be forfeited if,**

- (1) The tenderer does not commence the work within the period as per LOI / Contract. In case the LOI / contract is silent in this regard then within 15 days after award of contract the tender will be cancelled.
- (2) The tenderer withdraw his bid before the completion of the bid validity period. Tender for the work shall remain open for acceptance for a period of 120 days from the date of opening of the Tender.
- (3) If lowest tenderer withdraws his tender before the said period or issue of acceptance, whichever is earlier or makes any modification in the terms and conditions of the tender which are not acceptable to the Institute, then NITT, shall without prejudice to any other right or remedy, **beat liberty to forfeit 100% of the said earnest money with blacklisting the firm for two years.**

**8. SECURITY DEPOSIT:**

8.1 Security Deposit @ 5% of the work order value should be submitted before the commencement of the work.

8.2 Account payee Demand Draft/Fixed Deposit Receipt, Banker's cheque or Bank guarantee (Annexure-II) from any of the nationalized Schedule Banks in favour of **The Director, NIT, and Tiruchirappalli** is accepted towards Security Deposit.

**8.3 The security deposit shall not carry any interest.**

8.4 Unless the contractor whose tender is accepted signs the Contract Agreements and makes the necessary security deposit specified in Para above within Fifteen days of the date of the order directing him to do so, the amount of Earnest Money Deposit already deposited by him will be forfeited and acceptance of his tender withdrawn.

8.5 In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period if any, the contractor shall be suspended for two years and shall not be eligible to bid for NITT tenders from the date of issue of suspension order.

8.6 NITT shall not be responsible for any loss of securities, due to liquidation for any other reasons, whatsoever or any depreciation in the value of the securities while in their charge or for any loss of interest there on.

8.7 All compensation or other sums of money payable by the Contractor to NITT under the terms of this contract or under any other contract with NITT may be deducted from the Security Deposit or realized by the sale of the securities or from the interest arising therefrom or from any sums which may be due or may become due to the contractor by NITT and in the event of this Security Deposit being deducted by reason of such deductions or sale, as aforesaid, the Contractor shall within 7 days thereafter, make

good in cash or in securities endorsed as aforesaid, any sum by which the Security Deposit has been reduced.

**9. REFUND OF SECURITY DEPOSIT: -**

The Security Deposit mentioned above may be refunded to the Contractor after a period of 6 months on termination or expiry of the contract provided always that the Contractor shall first have been paid the last and final bill and have rendered a "NIL CLAIM CERTIFICATE.

If lowest tenderer withdraws his tender before the said period or issue of acceptance, whichever is earlier or makes any modification in the terms and conditions of the tender which are not acceptable to the Institute, then NITT, shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the said earnest money with blacklisting the firm. The Security deposit will be released within six months on satisfactory completion of the contract including extended period.

**10. PRE-BID MEETING:**

The Tenderers or his authorized official representatives are invited to attend a Pre-bid Meeting which will take place at the Estate Maintenance Department, NITT on the date mentioned in the bid document. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage. The tenderers are required to submit questions if any in writing so as to reach the EXECUTIVE ENGINEER, NITT before the pre bid meeting. Non-attendance at the Pre-bid Meeting will not be a cause for disqualification of a Tenderer. However, Clarifications given in the Pre-bid meeting are the part of tender documents and bound to be agreed & signed by lowest bidder during the issue of work order.

#### IV. **GENERAL CONDITIONS OF CONTRACT**

1. The work has to be carried out in NIT campus, Tiruchirappalli.
2. The scope of work inter alia includes the following with free power wherever needed, all within NITT.
3. **SCOPE OF WORK:** It includes maintenance activities of all Civil works, minor Structural steel works, Interior decorations, Roads, Water supply, Sewer lines, etc., all in NITT campus that consist of Hostels, Institute Buildings, Residential Quarters and with other buildings like Auditorium, Seminar Hall, Schools, Hospital, Recreation Center, community hall, Shopping Centre, etc.  
**The contactor graduate engineer has to receive the complaint and close the complaint in system. Also, they have to enter it in the log register is to be maintained separately in Estate office as per the instruction of Engineer-in-charge.**
4. The scope of work also includes construction and maintenance activities of water supply pumping station, overhead tanks, Sewage treatment plants etc.,.
5. Usually, working hours are limited to day time only. In emergency cases to carryout works during nights, it may be done so with the specific prior permission of NITT. In such case, it is to be carried out in the presence of NITT officials or their authorized persons.
6. The contractor has to keep an Auto-level instrument for any site levelling.
7. **The quoted rate shall be firm throughout the contract period, including extensions if any.**
8. The contractor should bring the construction machineries like Paver, Road Roller, JCB etc., as and when required for the work without any delay. Also required number of the following Tools & Plants / instruments shall be made available at site as per the requirement.
  - Levelling instruments or theodolite.
  - Full load mixture machine
  - Petrol / Kerosene driven vibrator
  - Cube moulds
  - Inter carting vehicle (mini door, tractor, hand trolley etc)
9. Exclusive Lorries to be deployed regularly to clear the debris generated and on no account the debris can be left for more than three days. Otherwise NITT would clear the debris at the contractor's risk and cost. In case any delay in debris removal, it will be done by other agency at the risk of cost of L1 Contractor.
10. The contractor may be required to undertake works at remote places and in such cases the contractor should make his own arrangement for safety of NITT materials, water required for the work and power etc.
11. The responsibility of clearing the building materials and cleaning the area immediately after the completion of work lies with the contractor. The contractor should ensure more care while working at residence and other places of importance.
12. The contractor has to execute any item of work irrespective of the quantity without any reservation.
13. The contractor has to carry out the work without affecting the working environment.
14. In case the Agency wishes to terminate the contract, it shall give three months advance notice in writing to this effect to the Institute. But the termination of the contract is fully as per the discretion of Institute Authority.

15. The Institute reserves the right to terminate the contract at any time by giving one month's notice to the selected Contractor. This notice period may not be applicable to the other provisions stipulated elsewhere in the contract.
16. If the Contractor withdraws from the contract within the initial period of work (i.e. 12 Months), the security deposit shall be forfeited and the contractor will be barred from participating in tenders of the institute for 3 years.
17. The decision of Engineer-in-charge shall be final and binding on the contractor in case of any controversy in specification between the items in CPWD SR & specification elsewhere in the contract.
18. Since the responsibility for the quality, workmanship and accuracy of any work being carried out under this contract lies with the contractor, the contractor should ensure that no work is done without the presence of contractor's representative at the work spot.
19. **Contractor's respective Supervisor / Engineer shall have to attend the maintenance office daily before 09.00 Hrs. to collect the complaints and also to hand over the complaints attended the previous day.**
20. Daily labour report for the manpower engaged on previous day area wise shall have to be submitted next day. Weekly progress report shall have to be submitted on every Monday.
21. The contractor has to submit the organization chart of their set up and any change thereafter in the organization set up shall have the prior approval of NITT.
22. Statement of completed works with detailed measurements shall be submitted by the contractor every month and the payment for the work done will be paid once in a month. The Contract Graduate Engineer has to enter the log book maintain at the NIT for the work done at quarters as per format given by NIT Engineer in-charge.
23. **The contractor shall establish his own site office and storage facilities. Vacant land for this purpose will be allotted free of cost upon specific request. The contractor may construct temporary structures for the office and stores at his own expense, subject to prior approval from the Engineer-in-Charge. The safety and security of the site office and storage facilities shall be the sole responsibility of the contractor. Office space alone may be provided on chargeable basis, if available.**
24. The contractor is required to carry out construction / maintenance activities as and when directed by the department officials irrespective of quantum involved at any specified time. Considering the nature of maintenance activities, volume of work involved, scattered location of work spot, the contractor is required to engage certain minimum strength of experienced supervisors for effective supervision of works.
25. The agency should maintain a stock register for material purchased and consumed for maintenance work. This register should clearly indicate date wise receipt of material and material consumed on work. The agency should also maintain a register for un-serviceable material received during repair work.
26. Adequate Quality Engineer and Safety Engineer should be deployed at site.
27. Additional supervisors shall have to be engaged depending upon the workload.
28. All the splashes after plastering, white washing & painting shall be removed from doors, floors, furniture, toilet & bathroom fittings, Electrical and other fittings and finished upto satisfactory level. Failing which the same shall be got cleaned at the risk & cost of contractor.
29. The technical bids will be subjected to evaluation by a committee calling for a technical presentation by the vendors which will include verifying financial turn over registration

certificates, legal, financial, statutory, taxation and other associated compliance of contractual conditions. The committee may evaluate / verify the performance of the agency at any of their existing contracts which may include obtaining references for visiting clients and the quality of services rendered by agencies. Further the committee may disqualify the bidder based on oral / written references or insufficient quality of service provided during existing or previous contracts.

30. The Contractor will be responsible and liable for the implementation of all the statutory provisions as regards to the personnel to be deployed by him in respect of minimum wages, Provident Fund, and ESI etc. as and when they become applicable under the Labour Laws. The Contractor shall maintain all the statutory registers under the law.
31. The Contractor shall produce the same on demand to Institute's authority or any other authority under law. As and when applicable the Contractor will obtain a license under the Contract Labour (R&A) Act 1970. In case, the previous month's challan pertaining to ESI and EPF having been deposited do not accompany the bill as a documentary proof, the Institute has the right to hold up a requisite portion/ or whole of bill amount till such proof is produced and furnished, at the discretion of the Institute. The Contractor will ensure payment of wages to his personnel within the period prescribed under Labour Laws for the purpose. The Contractor is also required to have a registration under the Company's Act, 1956 or under Indian Partnership Act, 1932 and should have a 'Memorandum and Article of Association' of the company or Partnership Deed, a certified copy of which will be submitted along with the tender. In case the Contractor fails to comply with any statutory obligation under any Labour Laws, and as a result thereof the Institute is put to any loss or obligation, monetary or otherwise, the Institute will be entitled to get itself reimbursed out of the bills or the security deposit of the Contractor, to the extent of the loss or obligation in monetary terms.
32. If the contractor performance is not satisfactory, the contract will be terminated by giving one month notice.
33. The contractor shall recoup NITT the cost of the damage incurred by the contractor on account of any breach of the terms and conditions of the agreement.
34. NITT will not be liable for any medical attention, injury / loss of life of the person engaged by the contractor
35. The contractor shall be solely responsible for any claim arising out of employment or termination of employment of his employees and for statutory payments. The contractor shall employ only such personnel who are medically fit and above the age of 18.
36. In case of any lapse in services, quality standards or any standing instruction, the contractor shall be penalized accordingly.
37. The contract may be terminated due to violations or poor performance or noncompliance of statutory payments in time, with due notice. The contractor shall at his own expense reinstate and make good to the satisfaction of NITT and pay compensation for any injury, loss or damage occurred to any property or rights whatever including property and rights of NITT employees.
38. In case of failure on the part of the contractor to complete any contractual obligations, NITT reserves the right to get the same done at the contractor's risk and cost by another agency/ departmentally apart from imposing penalty.
39. In all matters of dispute, the decision of the Executive Engineer, National Institute of Technology, Tiruchirappalli -620 015 shall be final and binding on the tenderer / contractor.

40. Engineer in charge / Civil or his duly authorized representative shall have all reasonable times access to Contractor's premises of work and shall have the power at all the reasonable times to inspect and test any portion of the work and workmanship

41. All personal protective equipment conforms with standard specification and Contractor including their agents and labour engaged on the work are required to scrupulously adhere to the safety regulations, safety precautions and measurers. Any violation thereof will invite punitive action being taken against them. Also, contractors with frequent violations of safety regulations will not be entrusted with further work in this organization.

42. **LABOUR LAWS:**

39.1 The Contractor shall not employ in connection with the work any person who has not completed 18 years of age.

39.2 The Contractor shall in respect of labour employed by him either directly or through subcontractors, comply with or cause to be complied with the following statutory provisions and rules and in regard to all matters provided therein.

- The Contract Labour (Regulation & Abolition) Act 1970
- The Minimum Wages Act 1948 and related Central Rules.
- The Payment of Wages Act 1936 and related Central Rules.
- The Employee's Provident Fund & Miscellaneous Provisions Act 1952.
- The Employees State Insurance Act 1948.
- The Workmen Compensation Act 1923.
- The Industrial Disputes Act 1947.

39.3 The payment of bonus act 1965 and any other law or modifications to the above or to the Rules made thereunder from time to time.

39.4 The Contractor employing workmen is required to obtain license from the authorities (Assistant Commissioner of Labour). The license shall be amended and / or renewed wherever, there is an increase in the workmen employed by him or in the event of contract being extended or renewed. The Contractor shall inform the license number to the NITT Management before taking up the work.

39.5 The Contractor (Licensed or unlicensed) shall promptly furnish every information and document required by NITT authorities for the purpose of fulfilling their obligations as PrincipalEmployer and shall render all necessary assistance for the same.

43. **DURATION OF THE CONTRACT:**

40.1 The contract shall remain valid for a period of **TWELVE (12) MONTHS** from the starting date of the contract period. However, it may be extended on a **YEARLY BASIS/ PART THEROF MONTHS** for a further period of up to **TWO YEARS** based on the performance and without any cost escalation. However, NITT reserves the right to terminate the contract at any time before the expiry of the normal tenure, in case the services are deficient/ unsatisfactory/ not required.

40.2 Extension shall be at the sole discretion of NITT subject to satisfactory performance evaluation, absence of contractual breaches, and written approval by the Competent Authority. No automatic right of extension shall be deemed.

44. **WAGES**

41.1 The Contractor shall pay wages to the workmen employed by him at the rate which shall not be less than the minimum wages applicable under Law from time to time.

41.2 The Contractor shall fix wage periods in respect of which wages shall be payable. No wage period

shall exceed one month.

- 41.3 The Contractor shall ensure payment of wages to the contract labour employed by him within three days from the end of wage period in case the wage period is one week or a fortnight and in all other cases before 7<sup>th</sup> day of the following month.
- 41.4 All Payment of wages shall be made on working days at the work site and during the working time and on date notified in advance. In case the work is completed before the expiry of the wage period final payment shall be made within 48 hours of the last working day.
- 41.5 Where the employment of any worker is terminated by or on behalf of the Contractor, the wages earned by him shall be paid before the expiry of the second working day from the day on which his employment is terminated.
- 41.6 Wages due to every worker shall be paid to him direct or to the person authorized by him in this behalf. All wages shall be paid in current coin or currency in both.

45. **REGISTERS & RECORDS: -**

The Contractor shall maintain all registers and records in the proper manner and as required by the regulations of the various authorities concerned and indemnify the Employer from the consequences due to any inaccurate or faulty documentation on the part of the Contractor.

46. **NONDISCLOSURE OF AGREEMENT:-**

The Agency shall take all precautions not to disclose, divulge and/or disseminate to any third party any confidential information, proprietary information on the Institute business or security arrangements (including but not limited to the Assignment instructions, Schedules and other subsequent Arrangements) and/or business of the Institute. The obligation is not limited to any Scope and the Agency shall be held responsible in case of breach of the confidentiality of Institute's information.

If the Agency receives enquiries from Press/Media/Radio/Television or other bodies / persons, the same shall be referred by the Agency to Institute immediately on receipt of such queries.

47. **POST TECHNICAL AUDIT OF WORK AND BILLS:-**

NITT reserves the right to carry out the post-payment Audit and technical examination of the work and final bill including all supporting vouchers, abstracts etc., and enforce recovery of any sum becoming due as a result thereof in the manner provided in the presiding sub-paragraphs. Such recovery shall be forced any time even after passing the final bill.

48. **SUBMISSION OF BILLS BY CONTRACTOR: -**

Complaints shall be made in the prescribed format. A complaint register (in prescribed format) shall be maintained in the Office of the contractor in which all complaints received shall be documented.

The Contractor shall submit a bill in 3 copies to the Engineer by 7th day of each month for the work executed up-to the end of previous month supported by the requisitions issued from time to time in tabulated form approved by the Engineer, showing the amounts to which, the Contractor considers himself to be entitled. The bill must be supported with the following documents: -

- a. Attendance sheets for the minimum manpower/staffs deployed as per clause 46. Certified bills miscellaneous materials purchased under different heads not covered in BOQ.
- b. Details of defects/complaints attended and rectified within time.
- c. Details of complaints attended late.
- d. Test certificates of materials used and tests carried out for quality control as required by the specifications and the Engineers.



- e. Deviation from the items provided in the contract documents.
- f. Extra items / new items of work.

Items in-respect of which rates have not been settled. He should in addition furnish a clear certificate to the effect that the claims submitted by him as aforesaid cover all his claims and that no further claims shall be raised by him in respect of the work done upto and including the period under report.

**49. PAYMENT OF BILLS:-**

- a. All payments to be made to the Contractor, under this contract shall be by NEFT or RTGS within maximum period of 30 days, after the certification of bills by the execution department and after fulfillment of all necessary documents.
- b. 2% as TDS amount of GST amount payable on the bills will be deducted as per the Govt. of India, Ministry of Finance, and Department of Revenue notification vide No.65/39/2018-DOR, dtd: 14-09-2018.

**50. RECOVERY FROM CONTRACTOR:-**

Whenever under the contract, any sum of money, shall be recoverable from or payable by the Contractors, the same may be deducted from or any sum then due or which at any time thereafter may become due to Contractor under the contract or under any other contract with NITT or from his Security Deposit or he shall pay the claim on demand.

**51. CANCELLATION OF CONTRACT FOR CORRUPT ACTS:-**

NITT, whose decision shall be final and conclusive, shall without prejudice to any other right or remedy which shall have accrued shall accrue thereafter to NITT cancel the contract in any of the following cases and the Contractor shall be liable to make payment to NITT for any loss or damage resulting from any such cancellation to the same extent as provided in the case of cancellation for default,

If the Contractor shall: -

- a. Offer or give or agree to give to any person in NITT service any gift or consideration of any kind, as an inducement or reward for doing or for bearing to do or for having done or for borne to do any act, in relation to the obtaining or execution of this or any other contract for NITT service,

OR

- b. Enter in to a contract with NITT in connection with which commission has been paid or agreed to be paid by him or with his knowledge, unless the particulars of any such commission and the terms of payment thereof have previously been disclosed in writing to NITT.

OR

- c. Obtain a contract with NITT as a result of ring tendering or by non-bonafide methods of competitive tendering, without first disclosing the fact in writing to NITT.

**52. CANCELLATION OF CONTRACT FOR INSOLVENCY  
ASSIGNMENT OF TRANSFER OR SUBLETTING OF CONTRACT:-**

NITT, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to NITT shall cancel the contract in any of the following cases:

- a. If the Contractor, Being an individual or if a firm any partner thereof shall at any time be adjudged bankrupt or have a receiving order for administration of his estate, made against him or shall take any proceedings for liquidation or composition under any bankruptcy Act or assignment of his effects of composition or arrangement for the benefit of his creditors or purport to do so, or if any application

made under any Bankruptcy Act for the time being in force for the sequestration of his estate or if a trust deed be granted by him on behalf of his creditors

OR

- b. Being a Company, shall pass a resolution or the Court shall make an order for the liquidation of its affairs, or a receiver or Manager on-behalf of the debenture holders shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or Manager,

OR

- c. Assigns, Transfers, Sub-lets or attempts to assign, transfer or sub-let any portion of the work without the prior written approval of the NITT.

Whenever NITT exercise the authority to cancel the contract under this conditions, NITT may have the work done by any means at the Contractor's risks and expenses provided always that in the event of the cost of the work so done (as certified by Engineer in charge which is final and conclusive) being less than the contract cost, the advantage shall accrue to the NITT and if the cost exceeds the money due to Contractor under the contract, the Contractor shall either pay the excess amount ordered by Estate Maintenance Dept. or the same shall be recovered from the Contractor by other means.

In case the NITT carries-out the work under the provisions of this condition the cost to be considered in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plants and/or labour provided by the NITT without additional cost to cover superintendence and establishment charges as may be decided by Estate Maintenance Dept., whose decision shall be final and conclusive.

53. **CANCELLATION OF CONTRACT IN PART OF FULL FOR CONTRACTOR'S DEFAULT:**

- a. If the Contractor makes default in carrying out the work as directed and continues in that state after a reasonable notice from Engineer in charge or his authorized representative.
- b. If the Contractor fails to comply with any of the Terms and Conditions of the contract or after reasonable notice in writing with orders properly issued thereunder.
- c. NITT, may without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to NITT, CANCEL the contract as whole or in part thereof or only such work order or items of work in default from the contract. Whenever NITT exercise the authority to cancel the contract as whole or part under this condition NITT may complete the work at the contractor's risk and cost (as certified by Engineer in charge, which is final and conclusive) being less than the contract cost, the advantage shall accrue to the NITT. If the cost exceeds the moneys due to the Contractor under this contract the Contractor shall either pay the excess amount ordered by Estate Maintenance Dept. or the same shall be recovered from the Contractor by other means. In case the NITT carries out the work or any part thereof under the provisions of the conditions the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plant and/or labour provided by the NITT without additional cost to cover the superintendence and establishment charges as may be decided by the Engineer in charge, whose decision shall be final and conclusive.

54. **TERMINATION OF CONTRACT ON DEATH OF CONTRACTOR. :-**

Without prejudice to any of the rights or remedies under this contract, if the Contractor dies, or if the firm is dissolved or the company is liquidated, NITT shall have the option of terminating the contract without compensation to the Contractor.

55. **SPECIAL POWER TO TERMINATION: -**

If at any time after the award of contract, NITT shall for any reason whatsoever not require whole or any part of the work to be carried out the Engineer in charge shall give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the fore-closing of the work.

56. **LABOUR: -**

The Contractor shall remain liable for the payment of all wages or other moneys to his work- people or employees under the payment of Wages Act 1936, Employees Liability Act. 1938, Workmen's Compensation Act 1923 or any other Act or enactment, relating thereto and rules framed, thereunder from time to time.

57. **CORRIGENDUM / AMENDMENT:**

It is tenderer's responsibility to watch for any corrigendum or amendment till the opening of a particular tender that will be posted only at CPP Portal web site.

58. **INDENIFICATION:**

The contractor shall at all times indemnify and keep indemnified the principle employer, the head of the office and its officers, servants and agents for and against all third party claims whatsoever (including time not limited to) property loss and damage, personal accident, injury or death of /or property or person of any sub contract and or the servant or agents of the contractor any sub-contractor and or the owner and the contractor shall at his own cost and imitative at all times maintain all liabilities under workman's compensation Act / Fatal Accident Act, personal injuries, Employees state Insurance Act, PF Act and or their industrial legislation from time to time in force.

The Contractor shall be fully responsible for the timely payment of wages, provident fund, bonus or any other benefits payable under the aforesaid Acts, Laws and regulations to the workforce engaged by him at the work premises of the Institute. The Institute shall not be responsible for these payments or any other liability on this account. The Contractor shall also indemnify and compensate the Institute for any liability incurred by the Institute, if any, including costs incurred thereon. In that event the nominated officer of the Institute shall be entitled to recover the amount so paid, from the contractor, including forfeiture of the Security Deposit and if the sum so payable and the Security Deposit is less than Institute's claim, it shall be lawful for the Institute to recover the balance amount as a debt from the Contractor.

The Contractor shall indemnify and compensate the Institute, if the Institute as Principal Employer under the Contract Labour (Regulation and Abolition) Act, 1970 becomes liable to assume any liability towards the workforce engaged by the contractor. In that event, the provisions relating to recover as provided in relevant clauses of the said Act shall be applicable in to.

59. **LEAVE / HOLIDAYS:**

For every workforce deployed in NITT premises, the contractor will give one day's weekly off for every six continuous working days.

60. **DISPUTE RESOLUTION MECHANISM**

In case of any dispute arising out during execution of the contract the following procedure will be followed for resolving the issue. The decision of competent authority, NIT Trichy in regard to the interpretation of the terms and conditions shall be final and binding which shall not be called in question in proceedings before any forum. The Institute rules shall be binding for execution of the contract. Further, in case of any dispute arising out of or in connection with the aforesaid contract either during subsistence of the contract or thereafter will be settled at his/her level by mutual consultation and in case of failure, Clause 9 Arbitration proceedings mentioned in this tender will be in effect. Jurisdiction for any dispute claims shall be made in courts/ Tribunal having jurisdiction over Trichy, TN, India.

61. **ARBITRATION:**

Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions hereinbefore mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the mutually appointed Arbitrator, the proceedings shall be in English and in accordance with Alternative Dispute Resolution (ADR) Act 1996 or any amendment thereof . The decision of the sole Arbitrator is binding and conclusive.

It is a term of the contract that the party involving arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute. The arbitrator(s) may from time to time with consent of the parties enlarge the time for making and publishing the award.

The work under the Contract shall, if reasonably possible, continue, during the arbitration proceedings and no payment due or payable, to the Contractor shall be withheld on account of such proceeding.

The arbitrator shall give a separate award in respect of each dispute or difference referred to him. The venue of arbitration shall be such place as may be fixed by the mutual agreement of the parties. The award of the arbitrator shall be final, conclusive and binding on all parties to this contract.

In the event of disputes or differences arising between one public sector enterprise and a Govt. Department or between two public sector enterprises the above stipulations shall not apply or its amendments for arbitration shall be applicable.

62. **FORCE MAJEURE CLAUSE:**

If at any time during the continuance of this contract, the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty-one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non-performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by NITT subject to prompt notification by the tenderer to NITT of the particulars of the events and supply to the NITT if required of any supporting evidence. Any waiver of time in respect of partial instalment shall not be deemed to be a waiver of time in respect of remaining deliveries.

The correspondence exchanged against the tender from both tenderer and NITT through email are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business.

Any transaction pertaining to the tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.

In case Letter of Intent (LOI) is issued through email, the PC generated time and date of mail shall be construed as the official time and date of release of LOI. In as much as this date is within the last date

of validity given by the tenderer the LOI is said to have been issued within the validity period and shall be bidding on both the parties to the business.

Tenderers participating in the tender should declare in their technical bid that whether they have been black-listed / kept on hold for a specified period / given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to NITT. If no such details are mentioned in the offer then it will be construed that the subject tenderer is not under any such hold. But at a later date if it comes to the notice of NITT about any such hold under enforcement on the subject tenderer, NITT will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalization of the subject tender irrespective of the status of the subject tenderer in that tender. Such tenderers will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any ongoing tenders even if participated till the hold is officially lifted and confirmed in writing.

### **63. COMPENSATION FOR DELAY:**

If the contractor fails to maintain the required progress or to complete the work and clear the site on or before the contracted or extended period of completion, he shall, without prejudice to any other right or remedy of the NITT on account of such breach, pay as agreed compensation an amount calculated as stipulated below or such smaller amount as may be fixed by the NITT on the contract value of the work for every week that the progress remains below or that the work remains incomplete. This will also apply to items or group of items for which separate period of completion has been specified.

For this purpose the term 'Contract Value' shall be the value at contract rates of the work as ordered and the compensation for delay is by way of recovery at **0.5 percent** of contract value per week of delay provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the contract value or of the contract value of the item or group of items of work for which a separate period of completion is given.

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the NITT.

## **V. PERFORMA OF SCHEDULES**

### **SCHEDULE 'A'**

Schedule of Quantities: List of items as per the attached **Schedule-A**.

### **SCHEDULE 'B'**

Schedule of Materials to be issued to the contractor

| Sl. No.       | Description of Item | Quantity | Rate at which the material will be charged to the Contractor | Place of Issue |
|---------------|---------------------|----------|--------------------------------------------------------------|----------------|
| .....NIL..... |                     |          |                                                              |                |

### **SCHEDULE 'C'**

Tools and Plants to be hired to the Contractor

| Sl. No.       | Description | Hire Charges per Day | Place of Issue |
|---------------|-------------|----------------------|----------------|
| .....NIL..... |             |                      |                |

### **SCHEDULE 'D'**

Extra schedule for specific requirements/document for the work, if any.

----NIL----

### **SCHEDULE 'E'**

Reference to General Condition of Contract: As per the Tender Document.

|                               |   |                                                                                                                  |
|-------------------------------|---|------------------------------------------------------------------------------------------------------------------|
| <b>Name of the Work</b>       | : | Annual Maintenance Contract for Civil Works for Institute & Quarters Zones at NIT-Trichy.                        |
| <b>Estimated Cost of Work</b> | : | Rs. 1,53,81,300/- (Incl. GST @ 18%)                                                                              |
| <b>Earnest Money</b>          | : | Rs. 4,61,500/-                                                                                                   |
| <b>Security Deposit</b>       | : | SD shall be 5% of the contract amount, valid up to stipulated date of completion and Six (6) months beyond that. |

### **SCHEDULE 'F'**

#### **General Rules & Directions:**

|                                                                                                                                                |   |                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------|
| Officer Inviting Tender                                                                                                                        | : | Executive Engineer, EMD                                                                                      |
| Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3 | : | NA<br>There are no quantity limitations. For any quantity of item of work, the quoted rates only applicable. |
| <b>Definitions</b>                                                                                                                             |   |                                                                                                              |
| 2(v) Engineer -in- Charge                                                                                                                      | : | Executive Engineer, EMD, National Institute of Technology, Tiruchirappalli.                                  |
| 2(viii) Accepting Authority                                                                                                                    | : | Dean (Planning & Development), National Institute of Technology, Tiruchirappalli.                            |
| 2(x) Percentage on cost materials and Labour to cover all overheads and profit                                                                 | : | 15 % (Fifteen Percent)                                                                                       |
| 2(x)(b) Standard Schedule of Rate                                                                                                              | : | CPWD, Delhi Schedule of Rates (DSR) 2023 Civil, (with up-to-date correction slips).                          |
| 2(xi) Department                                                                                                                               | : | Estate Maintenance Department, NITT.                                                                         |
| 9(ii) Standard Contract Form                                                                                                                   | : | GCC maintenance 2023, CPWD form-7 as modified & corrected up to date.                                        |
| <b>Clause 1</b>                                                                                                                                |   |                                                                                                              |
| i) Time allowed for submission of                                                                                                              | : | 15 (Fifteen) Days                                                                                            |

|                                                                                                                                                                                                                               |   |                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Performance Guarantee, Programme Chart (Time and Progress) and applicable licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance, in days. |   |                                                                                                                                                                                                                    |
| ii)Maximum allowable extension beyond the period provided in (i) above                                                                                                                                                        | : | 7 (Seven) Days                                                                                                                                                                                                     |
| <b>Clause 1A</b>                                                                                                                                                                                                              |   |                                                                                                                                                                                                                    |
| Whether Clause 1A is applicable                                                                                                                                                                                               | : | Applicable. The Defect liability period shall be One year from the date of actual completion.                                                                                                                      |
| <b>Clause 2</b>                                                                                                                                                                                                               |   |                                                                                                                                                                                                                    |
| Authority for fixing Compensation under Clause 2                                                                                                                                                                              | : | Executive Engineer, EMD, NITT.                                                                                                                                                                                     |
| <b>Clause 2A</b>                                                                                                                                                                                                              |   |                                                                                                                                                                                                                    |
| Whether Clause 2A shall be applicable                                                                                                                                                                                         | : | Yes                                                                                                                                                                                                                |
| <b>Clause 3(VII)</b>                                                                                                                                                                                                          | : | If the contractor had secured the contract with Government as a result of wrong tendering or other non-bonafide methods of competitive tendering or commits breach of Integrity Agreement-will be made ineligible. |
| <b>Clause 5</b>                                                                                                                                                                                                               |   |                                                                                                                                                                                                                    |
| Number of days from the date of issue of letter of acceptance for reckoning date of start                                                                                                                                     | : | 7 Days or date of issue of LOC whichever is later                                                                                                                                                                  |
| Milestones                                                                                                                                                                                                                    | : | Not Applicable                                                                                                                                                                                                     |
| Time allowed for execution of work                                                                                                                                                                                            | : | <b>365 Days</b>                                                                                                                                                                                                    |
| Authority to give fair and reasonable Extension of time for completion of work (as per hindrance register)                                                                                                                    | : | Executive Engineer (Civil), NITT.                                                                                                                                                                                  |
| Rescheduling of mile stones                                                                                                                                                                                                   | : | .....NA.....                                                                                                                                                                                                       |
| <b>Clause 6</b>                                                                                                                                                                                                               |   |                                                                                                                                                                                                                    |
| Measurement Book                                                                                                                                                                                                              | : | Computerized Measurement of Bills                                                                                                                                                                                  |
| <b>Clause 7</b>                                                                                                                                                                                                               |   |                                                                                                                                                                                                                    |
| Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment                                                     |   | Gross Work: Rs.2,50,000/-<br>(in case above mentioned amount not achieved, considering the maintenance work, the bills shall be paid on monthly basis irrespective of the bill value).                             |
| <b>Clause 10 A</b>                                                                                                                                                                                                            |   |                                                                                                                                                                                                                    |
| List of testing equipment to be provided by the contractor at site lab.                                                                                                                                                       | : | As specified in the tender document.                                                                                                                                                                               |
| <b>Clause 10 B (ii)- Secured advance on Materials:</b>                                                                                                                                                                        |   |                                                                                                                                                                                                                    |
| Whether Clause 10 B (ii) shall be applicable                                                                                                                                                                                  | : | Not Applicable                                                                                                                                                                                                     |
| <b>Clause 10 C</b>                                                                                                                                                                                                            |   |                                                                                                                                                                                                                    |
| Component of labour expressed as percentage of value of work                                                                                                                                                                  | : | Not Applicable                                                                                                                                                                                                     |
| <b>Clause 10 CA</b>                                                                                                                                                                                                           | : | Not Applicable                                                                                                                                                                                                     |
| <b>Clause 10 CC</b>                                                                                                                                                                                                           |   |                                                                                                                                                                                                                    |

|                                                                                                                |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                   |                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------|--------------------------------------------------------------------------------------------------------------------|
| Increase/Decrease in Price of materials/wages                                                                  | :                            | Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                   |                                                                                                                    |
| Clause 11                                                                                                      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                   |                                                                                                                    |
| Specification to be followed for execution of work                                                             | :                            | <b>DSR Items:</b> CPWD Specifications 2019 Vol. I & II, with up-to-date correction slips.<br><b>MORTH Items:</b> MORTH Specifications 2013, with up-to-date correction slips.<br><b>Market Rate Items:</b> Particular Specifications.                                                                                                                                                                                                                         |                 |                   |                                                                                                                    |
| Clause 12: Type of Work                                                                                        | :                            | Maintenance Work                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                   |                                                                                                                    |
| 12.2 & 12.3: Deviation limit beyond which Clause 12.2 &12.3 shall apply for building work                      | :                            | No limit for quantity. For all quantities, agreement rates shall be applicable.<br><b>Extra Items:</b> i) which items are available in the standard schedule of rates (DSR items), shall be paid as per the schedule rate plus cost index (at the time of tender@3%) plus/minus percentage above/ below quoted contract amount.<br>(ii) Payment of Extra items in case of non-schedule items (Non-DSR items) shall be made as per the prevailing market rate. |                 |                   |                                                                                                                    |
| Clause 14:                                                                                                     |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                   |                                                                                                                    |
| Whether Clause 14 is applicable                                                                                | :                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                   |                                                                                                                    |
| Clause 16                                                                                                      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                   |                                                                                                                    |
| Competent Authority for deciding reduced rates.                                                                | :                            | Dean (Planning & Development), NITT.                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                   |                                                                                                                    |
| Clause 17                                                                                                      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                   |                                                                                                                    |
| Defect Liability Period                                                                                        | :                            | Six Months                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                   |                                                                                                                    |
| Clause 18                                                                                                      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                   |                                                                                                                    |
| List of mandatory machinery, tools & plants to be deployed by the contractor at site                           | :                            | As per the scope of work                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                   |                                                                                                                    |
| Clause 25                                                                                                      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                   |                                                                                                                    |
| Settlement of disputes by Conciliation and Arbitration:                                                        |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                   |                                                                                                                    |
| Conciliator                                                                                                    | :                            | Dean (P&D)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                   |                                                                                                                    |
| Authority to appoint Arbitrator                                                                                | :                            | Director                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                   |                                                                                                                    |
| Place of Arbitration                                                                                           | :                            | Tiruchirappalli                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                   |                                                                                                                    |
| Venue of Arbitration                                                                                           | :                            | NIT-Tiruchirappalli                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                   |                                                                                                                    |
| Type of Arbitration Tribunal                                                                                   | :                            | Sole Arbitrator                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                   |                                                                                                                    |
| Note: Provisions of Arbitration and Conciliation Act 1996 with latest amendments in force shall be applicable. |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                   |                                                                                                                    |
| Clause 32: Requirement of Technical Representative(s) and Recovery Rate                                        |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                   |                                                                                                                    |
| Sl. No.                                                                                                        | Qualification                | No.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Min. Experience | Designation       | Rate at which the recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32 |
| 1.                                                                                                             | B. Tech in Civil ENgineering | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5 Years         | Graduate Engineer | Rs. 1,000/- per Absence per Day                                                                                    |
| 2.                                                                                                             | Diploma in Civil Engineering | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3 Years         | Diploma Engineer  |                                                                                                                    |



## **VI. SPECIAL CONDITIONS OF CONTRACT**

1. Every tenderer is expected to inspect NITT campus for which the service is to be rendered before quoting service charges. The requirement of experienced labour under respective trade and required tools & tackles for the nature of work in general should be assessed and no claim for extra payment at a later date on that account shall be entertained. Without written permission of EE, EMD, NITT, no part of the contract shall be sublet, shall transfer the power of attorney, authorizing others to receive the payment on contractor's behalf.
2. If further information is required, the Estate Office will furnish such information, but it must be clearly understood that tender must be received in order and according to instruction.
3. The contractor should employ workers who have experience in civil maintenance work.
4. Child Labor is strictly prohibited and if there is any violation, the contract will be terminated.
5. Permits for workers to the campus / building shall be obtained by the contractor from the concerned authorities. Only photo passes shall be issued and no group passes shall be issued.
6. In case NITT be held liable for any loss, damage or compensation to third party arising by the contractor, such loss, damage or compensation shall be paid by the contractor to NITT together with the cost incurred by NITT on any legal proceedings pertaining thereto.
7. Necessary monthly bills should be submitted by the contractor on or before seventh of subsequent month by fulfilling all formalities attaching copy of statutory remittances.
8. All expenses related to the functioning of the employees engaged by the contractor shall be in the scope of the contractor. The record of duty hours and pay structure should be maintained as per rules for inspection by authorized government personnel and meeting other statutory and non-statutory benefits/obligations.
9. The contractor should take all measures for environmental protection, such as control of chemical pollution, proper disposal of waste etc., and ensure that there are no adverse effect on the ecology, particularly on flora and fauna of the campus.
10. The contractor shall collect completion certificate for the work done from the respective Department/ resident / steward which is to be handed over to EMD latest the next day of completion.
11. **The printed booklets of complaints list with serial number to be maintained by the contractor (Enclosure-I).**
12. **Percentage Quoting Mechanism:**
  - i. The bidder shall quote a single percentage rate, either above, below, or at par with the applicable Schedule of Rates (SOR) for the respective Zone.
  - ii. Item-wise rates, selective percentage quotations, conditional rebates, or any other form of differential quoting shall not be permitted and are liable to result in rejection of the bid.
  - iii. The percentage quoted by the bidder shall remain firm and unchanged throughout the contract period, including any extension granted by the Institute in accordance with the contract conditions.
13. The quoted percentage should be inclusive of all taxes and duties levied or to be levied both by Central and State Government Statutory / regulatory authorities from time to time except Service Tax. NITT will not entertain any claim whatsoever in this regard. However, NITT will reimburse only service tax paid by the agency on submission of documentary evidence for having paid so with respect to this work.
14. If after opening the tender, the tenderer revokes his tender to increase his earlier quoted rate or after acceptance of his tender does not commence the work in accordance with the instruction of EO, ESTATE MAINTENANCE DEPT. the earnest money deposited by him, will be forfeited and acceptance of his tender withdrawn.
15. In cases where the total value of work is likely to exceed the sanctioned contract amount, the provisions of Clause 12 of the GCC for Maintenance Works–2023 shall apply.
16. **Extra Items:** Extra Items are those items which are not available in the contract Schedule of Quantities.
  - 16.1 Any item of work not included in the Schedule of Quantities but found necessary for satisfactory execution

of maintenance works shall be treated as an Extra Item.

- 16.2 Payment for Extra Items shall be regulated in accordance with Clause 12.2 of the GCC for Maintenance Works–2023.
- 16.3 In the case of Percentage Rate Tenders, Extra Item(s) that are available in the Standard Schedule of Rates (DSR Items) shall be paid at the applicable Schedule of Rates, including the approved Cost Index considered in the estimated cost put to tender, plus or minus the percentage quoted by the Contractor on the estimated cost put to tender.
- 16.4 In the case of Extra Item(s) that are not available in the Standard Schedule of Rates (Non-DSR Items), the Contractor may, within fifteen (15) days from the date of receipt of the order or occurrence of the item, whichever is earlier, submit a claim for determination of market rate(s), duly supported by:
- Detailed analysis of rates;
  - Manufacturer's specifications, where applicable;
  - Quotations, invoices, vouchers, and other supporting documents; and
  - Any other information required by the Engineer-in-Charge.

Failure of the Contractor to submit the claim within the stipulated period shall render the rate subsequently determined by the Engineer-in-Charge final and binding on the Contractor.

Upon receipt of the Contractor's claim, the Engineer-in-Charge shall, within forty-five (45) days, examine the documents submitted, assess prevailing market rates, and determine a reasonable rate for the item. Payment shall be made accordingly.

The rates for Extra Items determined by the Engineer-in-Charge in accordance with Clause 12.2 of GCC for Maintenance Works–2023 shall be final and binding on the Contractor and shall not be subject to arbitration or dispute.

**17. Contract Period: Exhaustion of Agreement Amount and Extension of Contract Period, in case of Agreement Amount not fully Utilized during the Contract Period:**

- 17.1 The contract shall remain valid for a period of one (1) year from the stipulated date of commencement of work, unless terminated earlier in accordance with the provisions of the contract.
- 17.2 In the event that the sanctioned contract amount is exhausted before the expiry of the original contract period, the Contractor shall continue to attend maintenance works as directed by the Engineer-in-Charge, subject to the provisions and financial limits prescribed under Clause 12 of the GCC for Maintenance Works–2023. The agreement shall, however, remain in force up to the original completion period for fulfilment of all contractual obligations, including completion of ongoing works, measurements, submission of bills, defect rectification, and settlement of accounts.
- 17.3 Exhaustion of the sanctioned contract amount before expiry of the contract period shall not automatically entitle the Contractor to any extension of time or enhancement of the contract value, except as specifically approved by the Competent Authority in accordance with the provisions of the GCC for Maintenance Works–2023.
- 17.4 If the sanctioned contract amount is not fully utilized during the original contract period, the Institute may, at its sole discretion and subject to satisfactory performance of the Contractor, extend the contract for a further period of up to **one (1) year or part thereof** on the same terms, conditions, rates, and percentage quoted by the Contractor, without any escalation whatsoever.
- 17.5 Extension of the contract period shall be considered only upon mutual consent of both parties and shall be subject to approval by the Competent Authority. The Contractor shall have no claim for extension as a matter of right.
- 17.6 During the extended period, the Contractor shall continue to execute maintenance works under the same scope, conditions, specifications, and contractual obligations as applicable under the original agreement.

**18. Extension of Contract Period on Availability of Additional Funds after Exhaustion of Original Agreement Amount**

- 18.1 In the event that the original sanctioned contract amount is exhausted and additional funds are subsequently sanctioned and made available by the Institute, the contract may, subject to mutual consent of both parties and approval of the Competent Authority, be extended for a further period not exceeding **one (1) year or part thereof** on the same terms, conditions, specifications, and percentage quoted by the Contractor.
- 18.2 Such extension shall be governed by the provisions and financial limits prescribed under Clause 12 of the GCC for Maintenance Works–2023 and shall not constitute a fresh contract.
- 18.3 During the extended period, no escalation, additional compensation, or revision of rates shall be admissible unless specifically provided under the GCC for Maintenance Works–2023.
- 18.4 The Contractor shall have no claim for extension of the contract or enhancement of the contract value as a matter of right merely on account of availability of additional funds.

**19. Complaint Management and Record Keeping:**

- 19.1 The Contractor shall maintain Complaint Registers, Maintenance Registers, Digital Databases, Microsoft Excel Sheets, or any other record-keeping system approved by the Engineer-in-Charge for effective monitoring and execution of maintenance works.
- 19.2 Complaints received through the Institute's online portal, helpdesk, e-mail, telephone, written communication, WhatsApp or any other authorized mode shall be attended to and resolved within the timelines prescribed by the Engineer-in-Charge.
- 19.3 Complete records of complaint registration, assignment, attendance, rectification, and closure shall be maintained, clearly indicating the date and time of receipt, commencement of work, completion of work, and closure of the complaint.
- 19.4 The Contractor shall submit monthly complaint reports, maintenance records, work completion reports, measurement records, photographs (wherever required), and all other relevant documents necessary for processing the Running Account (RA) Bill to the Engineer-in-Charge before submission of the monthly bill.
- 19.5 Failure to maintain proper records or submit the required documents may result in withholding of the RA Bill, either partly or wholly, until compliance is achieved to the satisfaction of the Engineer-in-Charge.
- 19.6 All records maintained under this contract shall be made available for inspection by the Engineer-in-Charge or any authorized representative of the Institute whenever required.

**20. Simultaneous Execution of Multiple Zones**

- 20.1 Where a Contractor is awarded more than one Zone under this tender or under separate maintenance contracts of the Institute, the Contractor shall deploy and maintain adequate and independent manpower, supervisory staff, tools and plants, vehicles, equipment, and other resources for each Zone so as to ensure uninterrupted and satisfactory maintenance services in all Zones.
- 20.2 Diversion of manpower, supervisory personnel, vehicles, tools, equipment, or other resources from one Zone to another, resulting in deterioration of service levels or delay in attending maintenance complaints, shall not be permitted without prior written approval of the Engineer-in-Charge.
- 20.3 The award of multiple Zones to a Contractor shall not relieve the Contractor of any contractual obligations, service standards, response times, or performance requirements specified for each individual Zone.
- 20.4 The Contractor shall, whenever required by the Engineer-in-Charge, furnish details of manpower deployment, supervisory arrangements, vehicles, tools and plants, and other resources deployed for each Zone, along with supporting records as may be prescribed.
- 20.5 In the event of inadequate deployment of resources, unsatisfactory performance, repeated delays in attending complaints, failure to maintain the prescribed service levels, or diversion of resources affecting maintenance operations, the Engineer-in-Charge may issue written instructions for immediate rectification. Failure to comply with such instructions within the stipulated time shall constitute a breach of contract.

- 20.6 Without prejudice to any other rights available under the contract, the Institute reserves the right to withdraw, reduce, or reassign the whole or part of any Zone from the Contractor and get the work executed through another agency at the risk and cost of the Contractor, in accordance with the relevant provisions of the GCC for Maintenance Works–2023.
- 20.7 No claim for compensation, loss of profit, idle charges, or damages shall be entertained from the Contractor on account of withdrawal, reduction, or reassignment of any Zone arising out of the Contractor's failure to fulfill contractual obligations.

**21. Cross-Zone Execution of Maintenance Works**

- 21.1 The Contractor shall attend and complete all maintenance complaints within the response and completion timelines prescribed by the Engineer-in-Charge.
- 21.2 Failure to attend, respond to, or complete complaints within the stipulated period may result in issuance of directions, reminders, notices, or instructions through letter, e-mail, SMS, WhatsApp, the Institute's online portal, telephone, or any other mode of communication deemed appropriate by the Engineer-in-Charge. Such communications shall be treated as valid notices under the contract.
- 21.3 Allocation of a Zone to the Contractor shall not confer any exclusive right to execute maintenance works within that Zone. The Institute reserves the right to make alternative arrangements whenever required in the interest of timely maintenance and uninterrupted functioning of the Institute.
- 21.4 If the Contractor fails to respond to complaints or continues to default in the discharge of contractual obligations, the Engineer-in-Charge may issue a notice directing the Contractor to rectify the default within a reasonable period specified therein. Failure to comply with such notice shall entitle the Institute to arrange execution of the pending work through another Zone Contractor, departmental resources, or any other suitable agency at the risk and cost of the defaulting Contractor.
- 21.5 Any additional expenditure incurred by the Institute in getting such works executed through alternative arrangements shall be assessed by the Engineer-in-Charge and recovered from the Contractor's Running Account Bills, Security Deposit, Performance Guarantee, or any other amounts due or becoming due under the contract.
- 21.6 Contractors engaged in other Zones may be directed by the Engineer-in-Charge to execute such works, and payment for such works shall be regulated in accordance with the rates and terms applicable to their respective contracts.
- 21.7 Repeated failures, persistent delays, non-deployment of adequate resources, noncompliance with directions of the Engineer-in-Charge, or failure to maintain prescribed service levels shall constitute unsatisfactory performance and may attract one or more of the following actions in accordance with the contract and GCC for Maintenance Works–2023:
- Recovery of compensation;
  - Execution of work at risk and cost;
  - Reduction in scope of work;
  - Withdrawal of Zone(s);
  - Rescission/termination of contract;
  - Forfeiture of Security Deposit and/or Performance Guarantee; and
  - Any other action permissible under the contract.
- 21.8 In emergencies involving public safety, structural distress, water supply failures, sewerage failures, electrical failures, fire hazards, or disruption of essential services, the Institute may immediately deploy another agency, departmental resources, or any other suitable arrangement without prior notice to the Contractor. The cost incurred on such emergency works, to the extent attributable to the Contractor's failure to perform contractual obligations, shall be recoverable from the Contractor.
- 21.9 The defaulting Contractor shall not be entitled to any compensation, damages, idle charges, loss of profit, or

any other claim arising out of execution of works through alternative arrangements made by the Institute under this Clause.

- 21.10 The performance of the Contractor under this contract, including response time, complaint closure efficiency, quality of maintenance works, and compliance with contractual obligations, may be considered by the Institute while assessing performance records, awarding extensions, evaluating future tenders, or taking action under applicable rules and procedures.

## **22. Inter-Zone Coordination**

- 22.1 Where maintenance activities, repairs, or allied works extend beyond the limits of a single Zone or affect adjoining Zones, the Contractor shall coordinate with other Contractors, agencies, utility service providers, and departmental representatives as directed by the Engineer-in-Charge to ensure smooth and timely execution of the work.
- 22.2 The Contractor shall cooperate fully in matters relating to access, sequencing of work, sharing of information, shutdown coordination, restoration activities, and other operational requirements necessary for effective execution of maintenance works involving multiple Zones.
- 22.3 In the event of any dispute, overlap, ambiguity, or uncertainty regarding the jurisdiction, scope of work, responsibility, or allocation of maintenance activities between Zones, the decision of the Engineer-in-Charge shall be final and binding on all concerned parties.
- 22.4 The Contractor shall not refuse or delay execution of any work on the grounds of jurisdictional disputes, overlap of responsibilities, or involvement of adjoining Zones. Any such issues shall be referred to the Engineer-in-Charge for decision.
- 22.5 No additional payment, compensation, overhead charges, idle charges, extension of time, or any other claim shall be admissible on account of coordination with other Contractors, agencies, departments, or adjoining Zones.
- 22.6 The Contractor shall be responsible for avoiding interference with the activities of other Contractors and shall take all necessary precautions to ensure that maintenance operations are carried out without disruption to Institute activities, utility services, or works being executed by other agencies.

## **23. Material Procurement and Quality Assurance**

- 23.1 All materials used in the execution of maintenance works shall conform to the latest CPWD Specifications, relevant BIS Standards, manufacturer's specifications, and any other quality requirements stipulated by the Engineer-in-Charge.
- 23.2 Materials shall be procured from approved manufacturers, authorized dealers, or approved sources wherever specified in the contract, CPWD Specifications, or as directed by the Engineer-in-Charge.
- 23.3 The Contractor shall, whenever required, submit samples of materials for approval before procurement and use. Approval of samples shall not relieve the Contractor of responsibility for ensuring compliance with the specified quality standards.
- 23.4 The Contractor shall furnish test certificates, manufacturer's warranty certificates, batch certificates, invoices, laboratory test reports, and any other supporting documents as may be required by the Engineer-in-Charge to establish the quality and authenticity of materials.
- 23.5 The Engineer-in-Charge shall have the right to inspect, test, or arrange testing of any material at any stage of procurement, storage, or incorporation into the work. The Contractor shall provide all necessary assistance for such inspection and testing.
- 23.6 Any material found to be defective, substandard, damaged, adulterated, counterfeit, or not conforming to the specified standards shall be rejected and shall be removed from the site by the Contractor at his own cost within the time stipulated by the Engineer-in-Charge.
- 23.7 Any work executed using rejected, defective, or non-conforming materials shall be dismantled, removed, and re-executed by the Contractor at his own risk and cost without any additional payment.
- 23.8 No payment shall be admissible for rejected materials, defective work, dismantled work, or work requiring

rectification due to the use of substandard materials.

23.9 The cost of testing materials, where tests are required under the specifications or directed by the Engineer-in-Charge due to suspected quality deficiencies, shall be borne in accordance with the provisions of the GCC for Maintenance Works–2023.

23.10 The Contractor shall be solely responsible for the quality, durability, performance, and suitability of all materials incorporated in the work and shall remain liable for defects attributable to material quality during the applicable defect liability or warranty period.

23.11 Acceptance of materials or certification of bills by the Engineer-in-Charge shall not absolve the Contractor of responsibility for defects, deficiencies, or non-conformity detected subsequently.

## **24. Measurement and Payment**

25.1 Measurements of all works executed under the contract shall be recorded in accordance with the provisions of the GCC for Maintenance Works–2023, CPWD Works Manual, CPWD Specifications, and other applicable instructions issued by the Institute.

25.2 Payment shall be made only for the actual quantities of work satisfactorily executed, measured, recorded, and accepted by the Engineer-in-Charge.

25.3 The percentage quoted and accepted by the Institute shall be applied to the measured quantities at the applicable Schedule of Rates for determining the amount payable to the Contractor.

25.4 Running Account (RA) Bills shall be submitted and processed in accordance with the frequency, conditions, and procedures specified in Schedule ‘F’ and other relevant provisions of the contract.

25.5 Submission of a Running Account Bill shall not imply acceptance of the quality or quantity of work, and the Engineer-in-Charge reserves the right to make corrections, recoveries, adjustments, or deductions in subsequent bills and/or the final bill.

25.6 The Contractor shall submit all supporting documents, measurement records, complaint closure records, test certificates (wherever required), invoices, photographs (wherever required), statutory compliance documents, and any other records prescribed by the Engineer-in-Charge along with the RA Bill.

25.7 Payments made through Running Account Bills shall be treated as interim payments only and shall not constitute final acceptance of the work or waiver of any contractual rights of the Institute.

25.8 Final payment shall be released only after:

- Completion of all contractual obligations;
- Submission of the Final Bill and supporting documents;
- Rectification of all defects and deficiencies, if any;
- Submission of required warranties, guarantees, and completion records;
- Recovery of all dues recoverable under the contract; and
- Certification by the Engineer-in-Charge.

25.9 The Institute shall be entitled to withhold, deduct, or recover any amount due from the Contractor under the contract from any Running Account Bill, Final Bill, Security Deposit, Performance Guarantee, or any other sums payable to the Contractor.

25.10 In case of any discrepancy between measured quantities and quantities indicated in the Schedule of Quantities, payment shall be regulated based on the actual quantities measured and accepted by the Engineer-in-Charge.

## **25. Performance Monitoring and Evaluation**

25.1 The performance of the Contractor shall be periodically monitored and evaluated by the Engineer-in-Charge based on, but not limited to, the following parameters:

- a. Timely response to maintenance complaints;

- b. Timely completion of maintenance works;
- c. Quality and durability of repairs and maintenance works executed;
- d. Compliance with prescribed Service Levels and response timelines;
- e. Adequacy and availability of manpower, supervisory staff, tools, plants, vehicles, and other resources;
- f. Site management, housekeeping, and work planning;
- g. Maintenance of registers, complaint records, measurement records, and other contractual documentation;
- h. Feedback received from occupants, users, authorities, departmental representatives, and other stakeholders;
- i. Compliance with safety requirements, statutory provisions, and directions of the Engineer-in-Charge; and
- j. Overall adherence to the terms and conditions of the contract.

25.2 The Engineer-in-Charge may maintain monthly performance records, service level reports, complaint analysis reports, inspection reports, or any other performance monitoring mechanism considered necessary for assessing the Contractor's performance.

25.3 Persistent poor performance, repeated delays, failure to maintain prescribed service levels, inadequate deployment of resources, poor workmanship, non-compliance with contractual obligations, or failure to comply with directions of the Engineer-in-Charge may attract action under the GCC for Maintenance Works–2023 and the contract conditions, including but not limited to:

- Recovery of compensation;
- Risk and cost execution of work;
- Reduction in scope of work;
- Withdrawal of one or more Zone(s);
- Withholding of payments;
- Rescission/termination of contract;
- Forfeiture of Security Deposit and/or Performance Guarantee; and
- Debarment or other actions as permissible under applicable rules.

25.4 Unsatisfactory performance recorded for three (3) consecutive months, or for any three (3) months during the contract period, may be treated as evidence of persistent non-performance and may constitute grounds for reduction in scope, withdrawal of Zone(s), rescission of contract, restriction on award of additional Zone(s), or any other action permissible under the contract, subject to compliance with the principles of natural justice and the relevant provisions of the GCC for Maintenance Works–2023.

25.5 Before taking any adverse action on account of unsatisfactory performance, the Contractor shall ordinarily be given an opportunity to explain the reasons for such performance and to take corrective measures within a reasonable period, except in cases involving emergencies, public safety, or circumstances warranting immediate action.

25.6 The decision of the Competent Authority regarding assessment of performance and consequential action under the contract shall be final and binding, subject to the remedies available under the GCC for Maintenance Works–2023.

## **26. Manpower Deployment**

26.1 The Contractor shall deploy adequate supervisory, skilled, semi-skilled, and unskilled manpower, as applicable, for satisfactory execution of the maintenance works in accordance with the requirements mentioned in this tender and the directions of the Engineer-in-Charge.

26.2 The workforce shall be deployed based on the performance test conducted by the institute in the relevant trade.

26.3 The contractor shall avoid frequent replacement of working staff and shall do so only with the prior approval of

Engineer-in-Charge.

- 26.4 The contractor shall maintain strict discipline among its workforce and shall abide by and conform to all rules and regulations promulgated by the institute governing the operations. If institute feels that the conduct of any of the contractor's workforce is detrimental, the institute shall have the right to request for the removal of such workforce either for incompetence, unreliability, misbehavior, and security reasons etc. while on or off the job. The contractor shall comply with any such request to remove such workforce at contractor's expense unconditionally. The contractor will be allowed a maximum of seven working days to replace the workforce with a competent qualified workforce at contractor's cost.
- 26.5 The manpower deployed shall possess the requisite qualifications, experience, competency, and trade skills necessary for execution of the assigned maintenance works.
- 26.6 The Contractor shall ensure availability of sufficient manpower at all times to meet the prescribed response times, service levels, and maintenance requirements under the contract.
- 26.7 In the event of absenteeism, leave, resignation, or replacement of personnel, the Contractor shall promptly provide suitable substitutes so that maintenance services are not adversely affected.
- 26.8 The supervisors / workers employed by the contractor should be well behaved & polite and any complaint of misbehavior shall be taken very seriously, and the agency will immediately have to remove such staff from the site by making alternative arrangement against the defaulter.
- 26.9 The Engineer-in-Charge may require augmentation of manpower whenever the deployed strength is found inadequate to meet the maintenance requirements, complaint load, emergency situations, or prescribed service levels. The Contractor shall comply with such directions without any additional financial claim.
- 26.10 The Contractor shall maintain attendance records, deployment registers, wage records, and statutory compliance records relating to the deployed manpower and shall produce the same for inspection whenever required by the Engineer-in-Charge.
- 26.11 Failure to deploy the prescribed manpower or maintain adequate staff shall be treated as a breach of contract and may attract compensation, reduction in scope of work, withholding of payments, risk-and-cost action, or any other action permissible under the contract and GCC for Maintenance Works–2023.
- 26.12 Deployment of manpower in excess of the minimum requirements, if considered necessary by the Contractor for proper performance of the contract, shall be at the Contractor's own cost and no additional payment shall be admissible on this account.
- 26.13 *There will be no relations between NITT, and the workforce engaged by contractors under the contract. No claims for any employment in NITT will be entertained or tenable. It shall be the sole responsibility of the contractor to regulate and effect any terms of employment with the engaged workforce without any liability whatsoever to the NITT.***

## **27. Safety, Health and Environmental Protection**

- 27.1 The Contractor shall comply with all applicable safety regulations, statutory provisions, labour laws, and safety guidelines issued by the Government, CPWD, local authorities, and the Institute from time to time.
- 27.2 The Contractor shall provide, at his own cost, all necessary Personal Protective Equipment (PPE) such as safety helmets, safety shoes, hand gloves, reflective jackets, safety belts, goggles, face shields, respiratory protection equipment, and any other safety gear required for the nature of work being executed.
- 27.3 The Contractor shall ensure that all personnel deployed at site are adequately trained and instructed in safe working practices and shall take all necessary precautions to prevent accidents, injuries, damage to property, interruption of services, and environmental hazards.
- 27.4 Suitable safety measures, warning signs, barricades, caution boards, lighting arrangements, protective coverings, and access control measures shall be provided wherever necessary to safeguard workers, Institute personnel, students, visitors, and the public.
- 27.5 The Contractor shall be solely responsible for the safety of his personnel, materials, equipment, tools, and works under execution and shall take all reasonable measures to prevent accidents and unsafe conditions.



- 27.6 Any accident, injury, loss of life, damage to property, disruption of services, or other incident arising out of or in connection with the execution of the work shall be immediately reported to the Engineer-in-Charge and the concerned statutory authorities, wherever required.
- 27.7 The Contractor shall be solely responsible for and shall indemnify and keep indemnified the Institute against all claims, demands, actions, proceedings, damages, compensation, penalties, costs, and expenses arising out of noncompliance with safety requirements, labour laws, statutory obligations, or negligence on the part of the Contractor, his employees, agents, or subcontractors.
- 27.8 The Institute shall not be liable for any injury, accident, disability, death, compensation, or claims arising out of the Contractor's operations, and all such liabilities shall rest solely with the Contractor.
- 27.9 Failure to comply with safety requirements may result in suspension of the work, stoppage of unsafe activities, recovery of costs incurred by the Institute, imposition of compensation, or any other action permissible under the contract and the GCC for Maintenance Works–2023.
- 27.10 Compliance with safety requirements by the Contractor shall not relieve him of any responsibility or liability under the contract, whether or not inspections are carried out by the Engineer-in-Charge.

28. **Documentation**

The Engineer-in-Charge may require submission of complaint records, measurements, photographs before and after execution in Microsoft Excel formats as prescribed by the Engineer in Charge.

29. **Applicability of Percentage Quoted in Financial Bid**

- 29.1 The percentage quoted by the bidder in the Financial Bid, whether **above (Excess), below (Less), or at par** with the estimated cost put to tender, shall be applied uniformly to all items included in the Schedule of Quantities (SOQ) and Abstract of Cost forming part of the tender documents.
- 29.2 The quoted percentage shall be applicable uniformly to both **DSR Items** and **Non- DSR Items** included in the Schedule of Quantities/Abstract of Cost, unless otherwise specifically provided in the contract or regulated under the provisions of the GCC for Maintenance Works–2023.
- 29.3 No separate percentage, differential percentage, selective loading, selective discounting, or conditional adjustment shall be permissible for any individual item, group of items, or category of work.
- 29.4 The accepted percentage shall remain valid throughout the contract period, including any approved extension of the contract, and shall be applied for determining payments for all applicable items executed under the contract.

30. **Statutory Requirement:**

- a) The contractor should get labour license for the work from licensing authority of the Government by paying necessary fees.

**General:**

- a) Work men should be vigilant while on work.
- b) Smoking in the institute premise is strictly prohibited.
- c) Workers must be free from influence of alcohol.
- d) Workers must be physically and mentally fit for work.
- e) Workers should avoid causing damage to the Institute property
- f) The NIT, Tiruchirappalli Administration will not accept any responsibility if the work man is injured.

## **Additional Conditions of Contract**

1. Before tendering, the contractor shall inspect the site of work and shall fully acquaint himself about the conditions prevailing at site, availability of materials, availability of land and suitable location for construction of godowns, stores and camp, transport facilities, the extent of lead and lifts involved in the work (over the entire duration of contract) including local conditions, as required for satisfactory execution of the work and nothing extra whatsoever shall be paid on this account.
2. The contractor shall at his own expense and risk arrange land for accommodation of labour, setting up of office, the storage of materials, erection of temporary workshops, and construction of approach roads to the site of the work including land required for carrying out of all jobs connected with the completion of the work. In any case, Institute shall not permit setting up of labour camps within its premises. If during contract period it becomes necessary to remove or shift the stored materials shed workshop, access roads, etc. to facilitate execution of any other work by any other agency, the contractor shall do as directed by the Engineer-in-Charge and no claim whatsoever, shall be entertained on this account.
3. It shall be deemed that the contractor shall have satisfied himself as to the nature and location of the work, transport facilities, availability of land for setting up of camp etc. The department will bear no responsibility for lack of such knowledge and the consequences thereof.
4. The contractor shall at his own cost submit samples of all materials sufficiently in advance and obtain approval of the Engineer-in-charge. Subsequently, the materials to be used in the actual execution of the work shall strictly conform to the quality of samples approved by the Engineer- in-charge and nothing extra shall be paid on this account. The acceptance of any sample or material on inspection shall not be a bar to its subsequent rejection, if found defective.
5. Materials used on work without prior inspection and without approval of Engineer-in-Charge are liable to be considered unauthorized, defective and not acceptable. The Engineer-in-charge shall have full powers to require removal of any or all of the materials brought to site by contractor which are not in accordance with the contract, Specifications or do not conform in character or quality to the samples approved by the Engineer-in-charge. In case of default on the part of the contractor in removing rejected materials, the Engineer-in- charge shall be at liberty to have them removed at the risk and cost of the contractor.
6. The work shall be carried out in such a manner so as not to interfere/or effect or disturb other works being executed by other agencies, if any.
7. Any damages done by the contractor to any existing work or work being executed by other agencies shall be made good by him at his own cost.
8. The work shall be carried out in the manner complying in all respects with the requirement of relevant rules and regulations of the local bodies under the jurisdiction of which the work is to be executed and nothing extra shall be paid on this account.
9. For completing the work in time, the contractor might be required to work in two or more shifts and no claims whatsoever shall be entertained on this account, notwithstanding the Fact that the contractor will have to pay to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour regulations and the agreement entered upon and/or extra amount for any other reasons.
10. The contractor shall maintain in good condition all work executed till the completion of the entire work entrusted to the contractor under this contract and nothing extra shall be paid on this account.
11. No payment will be made to the contractor for damage caused by rain, floods and other natural calamities whatsoever during the execution of the works and any damage to the work on this account shall have to be made good by the contractor at his own cost and nothing whatsoever' shall be paid on this account.
12. The item rates or percentage rates for all items of work, unless clearly specified otherwise, shall include the cost of all labour materials, de-watering and other inputs involved in the execution of the items.
13. Unless otherwise provided in the schedule of quantities or CPWD Specifications the percentage rates tendered by the contractor shall be all-inclusive and shall apply to all heights, depths, leads and lifts.
14. No claim whatsoever for idle labour, additional establishments, costs of hire and labour charges for tools

and plants etc. would be entertained under any circumstances.

15. For the safety of all labour directly or indirectly employed in the work for the performance of the contractor's part of this agreement, the contractors shall, in addition to the provisions of Safety code and directions of the Engineer-in-charge make all arrangements to provide facility as per the provisions of Indian Standard Specifications (Codes) listed below and nothing extra shall be paid on this account.
  - IS 3696 Part I Safety Code for scaffolds and ladders
  - IS 3696 Part II Safety Code for scaffolds and ladders Part II ladders
  - IS 764 Safety Code for excavation work
  - IS 4081 Safety Code for Blasting and Drilling operations,
  - IS4138 Safety Code for working in compressed air.
  - IS 7293 Safety Code for working with construction machinery
  - IS 7969 Safety Code for storage and handling of building materials
  - IS 5216:1982 code of safety procedures and practices in electrical works
16. The contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards and by providing red flags, red lights and barriers. The contractor shall be responsible for any accident at the site of work and consequences thereof.
17. The Government of India has announced that the four Labour Codes – the Code on Wages, 2019, the Industrial Relations Code, 2020, the Code on Social Security, 2020 and the Occupational Safety, Health and Working Conditions Code, 2020 are being made effective from 21st November 2025. As such the participating bidders are expected to have known about the above said labour laws. The clauses and sub clauses of the above four labour laws are to be implemented on site by the contractor. In case, violation of these clauses will attract penalties as per the stipulated rules of the labour laws. No claim whatsoever on account of such recoveries after giving reasonable notice will be entertained by the Institute.
18. No night work will be permitted without the written permission of the Engineer – in – charge.
19. Permission for erection of temporary work sheds etc., at site will have to be obtained from NITT in writing in advance.
20. The works contract to be entered into with the successful tenderer will be governed by the CPWD works Manual 2014 or the latest in force.
21. The successful tenderer / Contractor shall observe all safety regulations and take necessary safety precaution as called for and Safety Precautions enclosed herewith.
22. In all matters of dispute, the decision of the Estate Officer, National Institute of Technology, Trichy -620 015. Shall be final and binding on the tenderer / contractor.
23. For Some changes are likely in the layout, design and specifications of the work. The rate quoted shall be deemed to be inclusive of all such contingencies.
24. Engineer in charge / Civil or his duly authorized representative shall have all reasonable times access to Contractor's premises of work and shall have the power at all the reasonable times to inspect and test any portion of the work or examine the materials and workmanship of the structures during their manufacture and test. The contractor shall give due notice in writing to the Inspecting Engineer of NITT when the materials supplied to be incorporated in the work are ready for Inspection and test. No material shall be incorporated in the work until the inspecting Engineer certified in writing that such materials have been inspected and approved by him or else the rejected material should be removed from site immediately. The contractor should submit in advance every fortnight a detailed programmed of work to be undertaken from time to time strictly in conformities with the "Time and Progress Chart" covering the entire constructed work and reschedule them wherever necessary during the progress of the work so as to achieve the target set.

## **SAFETY PRECAUTIONS TO BE FOLLOWED AT WORK SITE DURING EXECUTION**

The following safety measures should be strictly adhered to, during execution of works at sites.

1. Providing the working platform with toe board and handrail for continuous working at heights.
2. Providing safety belt and life line at all times for men working at heights.
3. Providing dust or fume respirator in places where dust and fume concentration exists.
4. Providing goggles and welding screens.
5. Providing acid and alkali proof rubber gloves for handling acid and alkali and chemical which are corrosive.
6. Providing rubber gloves for working on electrical works.
7. Ensuring proper lashing of the components while being transported in vehicles.
8. The vehicles must have side supports or have body to support the materials conveyed.
9. The materials should not be allowed to extend or overflow the sides of the vehicles.
10. Materials should not be allowed to overhang from the rear edge of the body of the vehicle.
11. Driver of the vehicle must possess license.
12. Vehicle must not be overloaded prescribed limits.
13. Red flags and lights for parts projecting from the body of vehicle must be provided.
14. The speed restrictions within the Institute must be strictly adhered to.
15. The gas cylinders must be always handled on trolleys or kept tied down not in use. They should never be rolled as Roller for conveying.
16. Cylinders should not be used without regulators.
17. All excavations must be barricaded and red lamps must be provided.
18. All electrical connections must be properly earthed.
19. Providing helmet, safety belt, etc., for high level work and sufficient number of Industrial Safety nets at appropriate level to safeguard the persons working at high level particularly in roofing etc.,
20. All personal protective equipment conform with standard specification and Contractor including their sub-contractors, agents and labour engaged on the work are required to scrupulously adhere to the safety regulations, safety precautions and measures. Any violation thereof will invite punitive action being taken against them. Also contractors with frequent violations of safety regulations will not be entrusted with further work in this organization.

## **SAFETY PRECAUTIONS TO BE OBSERVED WHILE TRANSPORTING MATERIALS**

### **I. VEHICLE**

1. Vehicles carrying material should have proper registration documents and must be produced on demand by our Security Staff.
2. The light on right side, i.e., over the driver's cabin shall be in working condition.
3. Both the head lights as well as park lamps must be in working conditions.

### **II. MOVEMENT OF VEHICLE**

1. The vehicle should not travel at more than 20 km.ph in our premises.
2. The Driver of the vehicle must possess heavy duty license and produce on demand by the Security Staff.
3. Vehicles carrying inflammable liquids in the tank containers should have grounding chain or the tank should be coated with insulating material also to avoid Static Electricity.
4. In road junctions, speed breakers and railway crossing, the speed should be lowered and vehicle should proceed cautiously.
5. The driving should 'KEEP TO THE LEFT' at all places.
6. The vehicle should not be parked in road which could obstruct the vehicular traffic.
7. No person other than driver should be allowed to sit or stand on the prime mover or trailer.
8. The vehicle should pass only through the approved routes. Short cuts should be forbidden.
9. There must be a safe distance behind another moving truck.
10. The driver should avoid making quick starts, jerky stops or quick turns at excessive speed.

**FINANCIAL INFORMATION****I. Financial Analysis**

Details are to be furnished duly supported by figures in Balance sheet / Profit and loss account for the last five years duly certified by the chartered accountant, as submitted by the applicant to the Income – Tax Department (Copies to be attached).

| <b>Sl. No</b> | <b>Details</b>                                                          | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|---------------|-------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| 1.            | Gross Annual Turnover in Civil construction & Maintenance related works |         |         |         |         |         |
| 2.            | Profit (+) / Loss (-)                                                   |         |         |         |         |         |

**II. Financial arrangement for carrying out the proposed work.****III. Income Tax PAN Details (copy to be enclosed).****IV. Solvency certificate from any Nationalised Bank (copy to be enclosed).**

Signature(s) of Applicant (s) with seal

Signature of Chartered Accountant with seal

**Performance Certificate**

**Performance Report form for works completed during last 7 years**

**(Attach copies of work order / agreement – Multiple copies may be generated as per requirement)**

1. Name of the work :
2. Scope of work :
3. Agreement No. :
4. Tendered Cost :
5. Value of work done :
6. Date of commencement :
7. Date of Completion :
8. Performance :

Date:

Executive Engineer  
Project Manager, or Equivalent

**Structure and Organization**

1. Name and address of the applicant :
2. Telephone No. / Fax No. / E-Mail address :
3. Legal Status (attach copies of original Document defining the legal status)
  - a) An Individual :
  - b) A Proprietary Firm :
  - c) A Firm in Partnership :
  - d) A limited Company or corporation :
4. Particulars of registration with various Government bodies (Attach attested photocopy)
  - a) Registration Number :
  - b) Organization / Place of registration :
5. Names and Titles of Directors and officers with designation to be concerned with this work with designation of individuals authorized to act for the organization.
6. Was the applicant ever required to suspend housekeeping for a period of more than one month continuously after the work was commenced? If so, give the name of the project and give reasons thereof.
7. Has the applicant or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion?
8. Has the applicant or any constituent partner in case of partnership firm, ever been debarred / black listed for tendering in any organization at any time? If so, give details.
9. Has the applicant or any constituent partner in case of partnership firm, ever been convicted by a court of law? If so give details.

Signature(s) of Applicant(s) with seal



**Annexure-1**

**Affidavit for not being blacklisted/debarred/restrained**

(AFFIDAVIT to be submitted on a 'Non-Judicial' stamp paper worth Rs.100/)  
(Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid)

I/we undertake and confirm that our firm/partnership firm has not been blacklisted by any state/Central Departments/PSUs/Autonomous bodies during the last 7 years of its operations. Further that, if such information comes to the notice of the department, then I/we shall be debarred for bidding in NIT-T in future forever. Also, if such information comes to the notice of NIT-T on any day before date of start of work, the Engineer-in-charge shall be free to cancel the agreement and to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee (Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid)

**NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs.100/-**

Signature of Bidder(s) or an authorized Officer of the firm with stamp

Signature of Notary with seal

**Declaration about Site Inspection**

(By Bidder)

**To**

The Director,  
National Institute of Technology,  
Tiruchirappalli – 15.

**Subject: Annual Maintenance Contract for Civil Works for Institute & Quarters Zones at NIT-Trichy.**

Dear Sir/Madam,

It is hereby declared that as per terms and conditions of this tender document, I/ We the bidder inspected and examined the subject site and its surrounding and satisfy myself / ourselves as to the nature of the ground and sub-soil (so far as is practicable), the forms and nature of the site./ ourselves before submitting the bid, the accommodation which may require and all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid have been obtained. I/We the bidder shall have full knowledge of the site and no extra charge consequent upon any misunderstanding or otherwise shall be claimed in later date. I /We bidder shall be responsible for arranging

and maintaining at own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents.

Submission of a bid by me/us implies that I / We have read this notice and all other contract documents and has made myself /ourselves aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work.

Sincerely

(Duly authorized signatory of the Bidder)

**CPWD-7**  
**PERCENTAGE RATE TENDER & CONTRACT FOR WORKS**

Tender for the “**Annual Maintenance Contract for Civil Works for Institute & Quarters Zones at NIT-Trichy.**”

1. To be uploaded as per details uploaded in CPP portal at [www.eprocure.gov](http://www.eprocure.gov)
2. To be opened in the presence of tenderers who may be present at the time of opening in the Executive Engineer, EMD, NIT Trichy.
3. The pre-qualification/Technical bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bid shall be communicated to them at a later date.

**TENDER**

(To be signed in Company's Letterhead)

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F Specifications applicable, Drawings & Designs, General Rules and Directions, General Conditions of Contract (For construction works) 2023, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Board of Governors within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for One Eighty (180) days from the due date of its opening and not to make any modification in its terms and conditions.

I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer as per the bid document.

If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said Board of Governors or his successors, in office shall without prejudice to any other right or remedy, be at liberty to take action as per GCC 2023. Further, if I/We fail to commence work as specified, I/We agree that Board of Governors or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clauses 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the retendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back-to-back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in NIT-Trichy in future forever. Also, if such a violation comes to the notice of NIT-Trichy before date of start of work, the Executive Engineer, EMD shall be free to forfeit the entire amount of Performance Guarantee.

I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information / derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety & integrity of NIT-Trichy.

**Signature(s) of Contractor(s) with seal**

**LETTER OF TRANSMITTAL**

(To be duly filled, signed, scanned and uploaded along with e-Envelope 1 by the Bidders)

**To**  
**The Director,**  
**National Institute of Technology,**  
**Tiruchirappalli – 15.**

**Sub: Annual Maintenance Contract for Civil Works for Institute & Quarters Zones at NIT-Trichy.**

Sir,

Having examined the details given in notice inviting qualification application and tender and the qualification documents for the above work, I/ We hereby submit the application for eligibility and the tender (financial Bid) for the work duly filled in.

1. I / We here by certify that all the statement made and information supplied in the enclosed forms and accompanying statements are true and correct.
2. I / We have furnished all information and details necessary for deciding our eligibility to be qualified for taking part in the tendering process for the work. We have no further information to supply.
3. I / We submit the requisite solvency certificate and authorize the Executive Engineer, EMD, NIT Tiruchirappalli or his representative(s) to approach the bank concerned to confirm the correctness of the certificate.
4. I / We also authorize the Executive Engineer, EMD, NIT Tiruchirappalli or his representative(s) to approach individuals, firms and corporations to verify our competence and general reputation.
5. I / We submit the following certificates in support of our suitability, technical know how and capability for having successfully completed following works.

| Sl. No. | Name of Work | Amount | Certificate Issued by |
|---------|--------------|--------|-----------------------|
| 1.      |              |        |                       |
| 2.      |              |        |                       |

6. I/We certify that that the tender documents uploaded is the exact replica of the document published by the NITT and no alterations and additions have been made by me / us in the e-tender document.
7. I am / We are aware that the Financial Bid submitted by me/us will not be opened if I / We do not become eligible after evaluation of my/our application for eligibility.
8. The Original Demand Draft (EMD which was /were scanned and uploaded in the e-Tender shall be deposited by me/us with the Engineer-in-Charge in case I/we become the lowest Bidder within a week of the opening of financial Bid otherwise department may reject the tender.

Seal of the Bidder

Date of submission Signature of the Bidder

Enclosures:

**FORM OF UNDERTAKING FOR NOT TO SUBLET THE WORK**

To,  
The Director,  
National Institute of Technology,  
Tiruchirappalli – 15.

**Sub:** Annual Maintenance Contract for Civil Works for Institute & Quarters Zones at NIT-Trichy.

Sir,

With reference to the above, I hereby undertake not to sublet the work cited above if the work is allotted to me.

Signature and Seal of the Bidder:

Date:

**UNDERTAKING FOR MINIMUM WORKFORCE SUPPORT  
REQUIRED FOR WORKS**

To,  
The Director,  
National Institute of Technology,  
Tiruchirappalli – 15.

**Sub:** Annual Maintenance Contract for Civil Works for Institute & Quarters Zones at NIT-Trichy.

It is to certify that we will ensure the minimum workforce as mentioned below will be deployed during the entire tenure of the contract, abiding by the tender document terms and conditions

| S.No. | Workforce         | Qualification & Experience                  | Qty |
|-------|-------------------|---------------------------------------------|-----|
| 1     | Garduate Engineer | B. Tech (Civil) with Five Years Experience  | 1   |
| 2     | Diploma Engineer  | Diploma (Civil) with Three Years Experience | 2   |
| 3     | Skilled Carpenter |                                             | 3   |
| 4     | Skilled Plumber   |                                             | 3   |
| 5     | Skilled Mason     |                                             | 2   |
| 6     | Helper            |                                             | 2   |

However, in case of any emergency works, major breakdown works, to attend the complaints within 24 hours, extra workforce will be deployed as per requirement but we will not claim the charges for the same. I / We shall maintain sufficient workforce to provide eligible leaves, holidays for all above workforce as per the governing rules and regulations, laws, acts.

Signature and Seal of the Bidder:

Date:

**PROCESS COMPLIANCE/ACCEPTANCE OF TENDER CONDITIONS FORM**

The Form has to be submitted in the Letter Head of the Firm/Company/Enterprises along with appropriate Sign & Seal)

To

The Director,

National Institute of Technology,

Trichy – 15

Sub : Acceptance to the Process related & Terms and Conditions for the- Limited tendering

Ref. : The Terms & Conditions for e-Tendering mentioned in Tender.

No. :

Sir,

We hereby confirm the following.

The undersigned is authorized representative of the company. We have carefully gone through the NIT Tiruchirappalli, Tender Documents and the Rules governing the Limited Tender along with this document. We have examined and have no reservations to the Bidding Documents, including addendum (if any). We offer to supply in conformity with the Bidding Documents and in accordance with the condition of contract specified in this tender document. We will honour the Bid submitted by us during the Limited Tender. We give undertaking that if any mistake occurs while submitting the bid from our side, we will honour the same.

Bid Securing Declaration: - We accept that if we withdraw or modify Bids during the period of validity, or if we are awarded the contract and fail to sign the contract, or to submit a performance security before the deadline defined in this bids document, we will be suspended / blacklisted / banned for contracts with National Institute of Technology, Tiruchirappalli

We are aware that if NIT Tiruchirappalli has to carry out e-tender again due to our mistake, NIT Tiruchirappalli has the right to disqualify us for this tender when refloated. Our bid shall be valid for the period from the date fixed for the bid submission deadline & it shall remain binding upon us and accepted at any time before the expiration of bid validity period as per this tender.

If our bid is accepted, we commit to provide a performance security deposit at 3% to 5% of purchase value in Bank Guarantee /Fixed Deposits for due performance of the contract as per NIT Tiruchirappalli policy and warranty-guarantee as per tender specification or agrees as per contract. We understand that this bid, together with your written acceptance thereof included in your notification of i/placement of order, shall constitute a binding contract between us. We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive. We accept that the competent authority in NIT Tiruchirappalli will have full right to reject any/all offer(s) without assigning any reason thereof and does not bind itself to accept the lowest or any other tender and full authority to postpone the tender issue date, submission /opening date or to alter any other condition of tender /cancellation of this tender, as per policy/committee recommendations of NIT Tiruchirappalli at any stage without assigning any reason thereof for which no claim from whomsoever will be entertained. I/We the undersigned have read the entire terms and conditions of this Tender document and we are fully agreeable to the terms and conditions mentioned herein. The decision of competent authority of NIT Tiruchirappalli with respect to this Tender-Result will be fully agreeable and binding on us.

This letter can be treated as signed and acceptance copy of tender documents and the forms submitted as signed by competent authority of firm submitting this tender and there is no need to submit separate signed copy of tender document.

Competent Authority of the Firm/Company/Enterprises to sign:

Name

Designation

Date with stamp & seal of organization

Contract Agreement No.....

**TENDER**

To

The Director,  
National Institute of Technology  
TIRUCHIRAPPALLI –620 015.

I / We hereby offer to carry out the work of

I / We hereby carefully perused the following documents connected with the above noted work and agree to abide by the same.

- 1.Specifications (General & Particular)
- 2.Drawings
- 3.Schedule ‘A’,
- 4.Bill of Quantities
- 5.CPWD works Manual in force.

I / We forward herewith the sum of Rs.....as Earnest Money, which shall be refunded should this tender be rejected. I / We further agree to deposit such sum which along with the sum of Rs.....mentioned above shall make up 50% of the fully Security Deposit for this work as provided for under conditions of the NATIONAL INSTITUTE OF TECHNOLOGY General Conditions of Contract.

I / We further agree to execute all the work referred to in the said documents upon the terms & conditions contained or referred therein and as detailed in Schedule ‘A’ and Bill of Quantities thereto and to carry out such deviations as may be ordered, vide conditions of the NITT upto a maximum of 30% of the tendered amount of Rs.....

I / We further agree to refer all disputes, as required to the sole arbitration of an Officer, to be appointed by the Director, NITT., in his sole discretion whose decision shall be final and binding.

**WITNESS**

**Signature of the Contractor**

**Date:**

1. ....

2. ....



**NO RELATION CERTIFICATE**

(On letter head of the firm)

1. I/We hereby certify that I/We am/are related/not related to any officer of NIT Tiruchirappalli. (If related provide the details of the employee)
2. I/We am/are aware that, if the facts subsequently proved to be false, my/our contract will be rescinded with forfeiture security deposit and I/We shall be liable to make good the loss or damage resulting from such cancellation.
3. I/We also note that, non-submission of this certificate will render my / our tender liable for rejection.

**Date:**

**Place:**

**Authorized Signatory**

**Seal**

**Name:**

**Designation:**

**Contact No:**

**Bid Security Declaration**

To  
The Director  
NIT Tiruchirappalli

Tender/ Bid No ....., dated:

(Notice Inviting E-Tender for Annual Maintenance Contract for Civil Works for Institute & Quarters Zones at NIT-Trichy.)

Sir/ Madam,

We, the undersigned declare that

1. We understood that, according to the tender conditions, bids must be supported by a Bid Security Declaration.
2. We accept that we will automatically be suspended from being eligible for bidding in any contract with the Institute for the period of **2 years** starting from the bid closing date, if we are in breach of our obligation(s) under the bid conditions, because we;
  - (a) have withdrawn our bid during the period of bid validity specified in the letter of bid; or
  - (b) having been notified of the acceptance of our bid by the institute during the period of bid validity, (i) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the performance security, in accordance with the tender conditions.

**Date:**

**Place:**

**Authorized Signatory**

**Seal**

**Name:**

**Designation:**

**Contact No :**

**MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER**

Date:     /     /

To

The Director,  
National Institute of Technology,  
Tiruchirappalli – 620 015, Tamil Nadu

|     |   |                                                                                                                                                    |
|-----|---|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Sub | : | Authorization for release of payment / dues from National Institute of Technology, Tiruchirappalli through Electronic Fund Transfer/RTGS Transfer. |
|-----|---|----------------------------------------------------------------------------------------------------------------------------------------------------|

1. Name of the Party / Firm / Company / Institute :
2. Address of the Party :
3. City \_\_\_\_\_ Pin Code \_\_\_\_\_
4. E-Mail \_\_\_\_\_ Mobile No: \_\_\_\_\_
5. Permanent Account Number \_\_\_\_\_
6. Particulars of Bank:

|                                        |         |              |             |
|----------------------------------------|---------|--------------|-------------|
| Bank Name:                             |         | Branch Name: |             |
| PIN Code:                              |         | Branch Code: |             |
| IFS Code:(11 digit alpha numeric code) |         |              |             |
| Account Type                           | Savings | Current      | Cash Credit |
| Account Number:                        |         |              |             |

**DECLARATION**

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information I shall not hold Director, National Institute of Technology Tiruchirappalli responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS Transfer.

**Date:****Place:****Seal****Authorized Signatory****Name:****Designation:****Contact No**

**BANK GUARANTEE FOR SECURITY DEPOSIT**

(To be executed on non-judicial stamp paper of ₹ 100/- (Rupees One Hundred Only) or as per appropriate Stamp Act.)

1. THIS DEED OF GUARANTEE made this on \_\_\_\_\_ By **Name of Bank** in favor of **M/s. National Institute of Technology, Tamilnadu, Tiruchirappalli 620 015**, having its registered office at National Institute of Technology, Trichy -620015.
2. WHEREAS Ms. National Institute of Technology (hereinafter called the "COMPANY") have placed work order(s) which are pending as on date and also proposes to place further work order(s) (hereinafter called the "CONTRACT" up to **xx.xx.202x** for Work order no ..... **Annual Maintenance Contract for Civil Works at NIT-Trichy** Dated ..... With **(Name of the Contractor & Address)** (herein after called the "CONTRACTOR") and as per the terms of the contract, the company has issued/proposes to issue raw materials to the contractor to enable them to complete the work.
3. AND WHEREAS one of the conditions for placing such contract(s) is that the Contractor/ Supplier shall provide the Company a Bank Guarantee for `-----/(3% of contract value) in lieu of cash and towards the security deposit for the raw materials supplied and to be supplied, in pursuance of the contract(s) already placed but pending as on date and the contract(s) to be placed from time to time up to **31.08.2027** and also for the satisfactory performance and completion of work/supply as per the terms and conditions of the said contract(s).
4. AND WHEREAS the Name of the Contractor approached the **Name of the Bank** and at their request and in consideration of the arrangement arrived at between the said Contractor **Name of the Contractor** and the said Bank.
5. We **Name of the Bank** do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Company stating that the amount claimed is due by way of Inss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said Contractor(s) of any of the terms and conditions contained in the said Agreement or by the reason of the contractor(s) 'failure to perform' the said agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding `-----/-
6. We **Name of the Bank** further assure that the Contractor/ Supplier shall be responsible for the safe custody and protection of the raw materials that have been supplied/and to be supplied by NIT under the contract(s) already placed but pending as on date and to be placed up to **01.09.2026** against all risks till they are delivered back as finished products to NIT as per the terms and conditions of the Contract or as they may direct and until such time, the Contractor/ Supplier shall hold the raw materials in trust for NIT and shall not alienate the same in any manner whatsoever by way of sale or mortgage or charge or hypothecation etc. in favor of anyone else including the bank herein or any other banks /financial institutions etc.
7. The raw materials shall always remain the property of NIT and the Bank shall indemnify NIT against the loss, damage or deterioration whatsoever in respect of the said raw materials while in the possession of the Contractor/Supplier. The raw materials of NIT shall always be open for inspection by any Officer authorized by NIT. The liability under this Guarantee is a continuing one covering all contracts already placed but pending as on date and to be placed up to and should any loss or damage occur on account of the breach of the terms and conditions of the said contract(s) by the Contractor/ Supplier or should any surplus raw materials become due to the Company under the Contract(s) and remains undelivered by the Company, the Bank shall indemnify the Company for the loss /damage for the value of raw materials for `-----/- (**Rupees ----- only**) and this is without prejudice to any other remedies which may be othenwise available to the Company by deduction from any sum due or any sum which at any time hereinafter become due from the Contractor/ Supplier underthis or any other Contract(s).

8. We undertake to pay unconditionally to the Company any money so demanded notwithstanding any dispute(s) raised by the Contractor in any suit, or proceedings pending before any Court or Tribunal or Arbitration or before any other authority relating thereto our liability under this present being absolute and unequivocal. The payment under this guarantee would not wait till the disputes have been decided by any Court or Tribunal or in the arbitration proceedings or by any other authority. The payment so made by us under this Bond shall be a valid discharge of liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.
9. We **Name of the Bank** further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken force of the said Agreement and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till **xx.xx.202x** Office / Department/ Division of the Company certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
  - (i) Unless a demand or claim under this guarantee is made on us in writing on or before the **xx.xx.202x** we shall be discharged from all the liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date, the claim shall be enforceable notwithstanding the fact that the said enforcement is effected after the said date.
  - (ii) (ii) For the purpose of this clause, any letter making demand on the Bank by M/s. NIT dispatched by Registered Post with Ack. Due or by Telegram or by any Electronic media addressed to the above mentioned address of the Bank shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the bank personally.
10. We **Name of the Bank** further agree with the company that the Company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the company or any indulgence by the company to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating would but for this provision have effect of not so relieving us.
11. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
12. It shall not be necessary for the company to proceed against the contractor before proceeding against the guarantor-bank and the guarantee herein contained shall be enforceable against them notwithstanding any security, which the company may have obtained or obtain from the Contractor shall, at the time when proceedings are taken against the guarantor hereunder be outstanding or unrealized.
13. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirappalli.
14. The guarantor hereby declare that it has power to execute this guarantee and the executant has full powers to do so on its behalf under the proper authorities granted to him/them by the guarantor.
15. We **Name of Bank** lastly undertake not to revoke this guarantee during its currency except with the previous consent of the company in writing.
16. In witness whereof we **Name of the Bank** have hereunto set out Bank Seal the **xx.xx. 202x**.

Dated:

(Name of the bank)

Note: This guarantee should be issued on non-judicial stamped paper, stamped in accordance with stamp act.

**INTEGRITY PACT**

(For the use of successful bidder)

(To be submitted on Rs. 100/- stamp paper)

The Director, NIT-Tiruchirappalli (represented by the Authorized Person), having office at NIT Tiruchirappalli, Tamilnadu – 620015, hereinafter referred to as the 'NIT Tiruchirappalli Administration',

AND

(Name of The Applicants and consortium members) ..... hereinafter referred to as "The applicant/Contractor/contractor".

Preamble: The NIT Tiruchirappalli Administration intends to award, under laid down organizational procedures, contract for Tender No..... The department values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its applicants. The Central Vigilance Commission (CVC) has been promoting integrity, transparency, equity and competitiveness in Government / PSU transactions and as a part of Vigilance administration and superintendence, CVC has, recommended adoption of Integrity Pact and provided basic guidelines for its implementation in respect of major procurements in the Government Organizations.

**Section 1. Commitments of the Department**

(1) The department commits itself to take all measures necessary to prevent corruption and to observe the following principles: -

(a) No employee of the department, personally or through family members, shall in connection with the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.

(b) The department shall, during the pre-contract stage, treat all APPLICANTs alike, and shall provide to all APPLICANTs the same information and shall not provide any such information to any particular APPLICANT which could afford an advantage to that particular APPLICANT in comparison to other APPLICANTs.

(c) The department shall exclude from the process all known prejudicial persons.

(2) If the department obtains information on the conduct of any of its employees which is a criminal offence under the relevant anti-corruption laws of India, or if there be a substantive suspicion in this regard, the department shall inform its Vigilance Office and in addition can initiate disciplinary actions. In such a case, while an enquiry is being conducted by the department, the proceedings under the contract would not be stalled.

**(3) Section 2. Commitments of the Applicant / Contractor / Contractor:**

(1) The applicant/Contractor commits themselves to take all measures necessary to prevent corrupt practices, unfair means and illegal activities, during pre-contract as well as post- contract stages. He commits himself to observe the following principles during the contract execution.

(a) The applicant/Contractor shall not, directly or through any other person or firm, offer, promise or give to any of the department's employees involved in the execution of the contract or to any third person any material or immaterial benefit, which he/she is not legally entitled to, in order to obtain in exchange of advantage of any kind, whatsoever during the execution of the contract.

(b) The applicant/Contractor shall not enter with other applicants into any undisclosed agreement or

understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of applications, or any other actions to restrict competitiveness, or to introduce cartelization in the tender process.

(c) The applicant/Contractor shall not commit any offence, under the relevant anticorruption laws of India; further the applicant/Contractor shall not use improperly, for purposes of competition, or personal gain, or pass on to others, any information or document provided by the department, as part of the business relationship, regarding plans, technical applications and business details, including information contained or transmitted electronically.

(d) The applicant shall not collude with other parties interested in the contract to impair the transparency, fairness and progress of the tender process, application evaluation, contracting and implementation of the contract.

(e) The applicant/Contractor shall, when presenting his application, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries, in connection with the award of the contract.

(f) The applicant commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

(g) The applicant shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the Income-Tax Department.

(2) The applicant/Contractor shall not instigate third persons to commit offences outlined above or be an accessory to such offences.

### **Section 3. Disqualification from or exclusion from future contracts:**

1. If the applicant, before award of contract, has committed a transgression, through a violation of Section-2 or in any other form, such as to put his reliability as applicant, into question, the department is entitled to disqualify the applicant, from the tender process, or to terminate the contract, if already signed, for such reason.

2. If the applicant/Contractor has committed a transgression, through a violation of Section-2, such as to put his reliability, or credibility into question, the “NIT Tiruchirappalli Administration” is entitled to disqualify the applicant/Contractor from the tender process, terminate the contract if already awarded and also, to exclude the applicant/Contractor from future contract award processes. The imposition and duration of the exclusion shall be determined by the severity of the transgression. The severity shall be determined, by the circumstances of the case, in particular the number of transgressions, the position of the transgressions within the hierarchy of the concern of the applicant and the amount of the damage. The execution shall be imposed for a minimum of 6 months and maximum of 3 years.

3. The applicant accepts and undertakes to respect and uphold, the “NIT Tiruchirappalli Administration” absolute right to resort to and impose such exclusion and further accepts and undertakes, not to challenge or question such exclusion, on any ground, including the lack of any hearing before the decision, to resort to such exclusion is taken.

### **Section 4. Compensation for damages:**

1. If the “NIT Tiruchirappalli Administration” has disqualified the applicant, from the tender process prior to the award, according to Section-3, the department is entitled to demand and recover the damages equivalent to Earnest Money Deposit/Bid Security.

2. If the “NIT Tiruchirappalli Administration” has terminated the contract according to Section-3, or if the department is entitled to terminate the contract according to Section-3, the department shall

be entitled to demand and recover from the Contractor, liquidated damages equivalent to 5% of the contract value, or the amount equivalent to Security Deposit/Performance Guarantee, whichever is higher.

3. The applicant agrees and undertakes to pay the said amounts, without protest or demur.

**Section 5. Previous transgression:**

1. The applicant declares that, no previous transgression has occurred in the last 3 years, with any other company, in any country, or with any other Central/State Govt. organization or PSU, that could justify his exclusion from the award of the contract.

2. If the applicant makes incorrect statement on this subject, it can be declared disqualified for the purpose of the contract and the same can be terminated for such reason.

3. The applicant or any of its partners/directors, etc., should not have been blacklisted/debarred by any of the government agencies or should not have been found to be guilty of moral turpitude or convicted of any economic offense or with violation of any labour laws, etc. by any court or any authority appointed to enforce any labour laws.

**Section 6. Equal treatment of all Applicants/Contractors/Sub-Contractors:**

1. The applicant/Contractor undertakes to demand from all sub-contractors, a commitment in conformity with this Integrity Pact, and to submit it to the department before contract signing.

2. The “NIT Tiruchirappalli Administration” shall enter into agreements with identical conditions as this one which all applicants, Contractors and sub-contractor.

3. The ‘NIT Tiruchirappalli Administration’ shall disqualify all applicants from the tender process, who do not sign this part or violates its provisions.

**Section 7. Criminal charges against violating Applicants/ Contractors:**

If the ‘NIT Tiruchirappalli Administration’ obtains knowledge of conduct of an applicant/Contractor or sub-contractor, or of an employee, or a representative, or an associate of an applicant/Contractor, or sub-contractor, which constitutes corruption, or if the ‘NIT Tiruchirappalli Administration’ has substantive suspicion, in this regard, the department shall take necessary action accordingly.

**Section 8. Pact Duration:**

1. This pact begins when both parties have signed it. It expires 12 months after the last payment under the contract agreement is made.

2. If any claim is made/lodged during this time, the same shall be binding and continue to be valid, despite the lapse of this Pact, as specified above, unless it is discharged/determined the department.

3. The Pact duration in respect of unsuccessful applicants shall expire after 3 months of the award of the contract.

**Section 9. Other Provisions**

1. This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the NIT Tiruchirappalli, i.e. Tiruchirappalli, Tamilnadu.

2. Changes and supplements as well as termination notices, need to be made in writing, before they become effective and binding on the both parties.

3. If the applicant / Contractor is a partnership or a consortium, this agreement must be, signed by all partners or consortium members.

4. Should one or several provisions of this agreement, turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties shall strive to come to an agreement,



to their original intensions.

For the “NIT Tiruchirappalli”

Place: Tiruchirappalli.

For the Applicant/Contractor

Witness-1: .....

Witness-1: .....

Witness-2: .....

Witness-2: .....

Date:

Date:

**Similar Works Experience details**

| <b>Sl. No.</b> | <b>Name of the Work/Project and Location</b> | <b>Work Order No. &amp; Date (Copies to be attached)</b> | <b>Date of successfully completion of Work (Copy of completion certificate from client to be attached)</b> | <b>Annual Value of Work Order</b> | <b>Contact Details of Client</b> |
|----------------|----------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------|
|                |                                              |                                                          |                                                                                                            |                                   |                                  |
|                |                                              |                                                          |                                                                                                            |                                   |                                  |
|                |                                              |                                                          |                                                                                                            |                                   |                                  |
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|                |                                              |                                                          |                                                                                                            |                                   |                                  |
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|                |                                              |                                                          |                                                                                                            |                                   |                                  |
|                |                                              |                                                          |                                                                                                            |                                   |                                  |

**Date:****Place:****Authorized Signatory****Seal****Name:****Designation:****Contact No:**

**(Printed Booklet with Sl.No.)****CIVIL COMPLAINT SHEET**

|                            |  |                               |  |
|----------------------------|--|-------------------------------|--|
| <b>Complaint No.</b>       |  | <b>Registered Date</b>        |  |
| <b>Complainer</b>          |  | <b>Issued Date</b>            |  |
| <b>Contact No.</b>         |  | <b>Completion Due Date</b>    |  |
| <b>Hostel</b>              |  | <b>Actual Completion Date</b> |  |
| <b>Location</b>            |  | <b>Remarks</b>                |  |
| <b>Nature of Complaint</b> |  |                               |  |
| <b>Category</b>            |  | <b>Issuer Signature:</b>      |  |

**Work Description and Material Usage Details**

| Sl. No | Work/Item Description | Unit | Quantity |
|--------|-----------------------|------|----------|
| 1.     |                       |      |          |
| 2.     |                       |      |          |
| 3.     |                       |      |          |
| 4.     |                       |      |          |

\*Additional entries can be made other side, if required.

|                    |                               |                                       |                               |
|--------------------|-------------------------------|---------------------------------------|-------------------------------|
| <b>Performance</b> | Good <input type="checkbox"/> | Satisfactory <input type="checkbox"/> | Poor <input type="checkbox"/> |
|--------------------|-------------------------------|---------------------------------------|-------------------------------|

**Contractor Sign****Complainer Sign & Date****EMD****Office Use Only**

| Item No.                | Description | Rate | Quantity | Total (Rs.) |
|-------------------------|-------------|------|----------|-------------|
|                         |             |      |          |             |
|                         |             |      |          |             |
|                         |             |      |          |             |
|                         |             |      |          |             |
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|                         |             |      |          |             |
|                         |             |      |          |             |
| <b>Total</b>            |             |      |          |             |
| <b>Penalty (if any)</b> |             |      |          |             |
| <b>Net Total</b>        |             |      |          |             |

**Contractor****Junior Engineer/Section-in-charge**

To be submitted along with running bills.

**MAINTENANCE COMPLAINT REGISTER**

| Sl.no | Complaint No | Complaint Date | Completed Date | Nature of Complaints | Materials Used | Qty | Remarks | Item no | Rate | Penalty Amount | Total Amount |
|-------|--------------|----------------|----------------|----------------------|----------------|-----|---------|---------|------|----------------|--------------|
|       |              |                |                |                      |                |     |         |         |      |                |              |
|       |              |                |                |                      |                |     |         |         |      |                |              |
|       |              |                |                |                      |                |     |         |         |      |                |              |
|       |              |                |                |                      |                |     |         |         |      |                |              |
|       |              |                |                |                      |                |     |         |         |      |                |              |
|       |              |                |                |                      |                |     |         |         |      |                |              |
|       |              |                |                |                      |                |     |         |         |      |                |              |
|       |              |                |                |                      |                |     |         |         |      |                |              |
|       |              |                |                |                      |                |     |         |         |      |                |              |
|       |              |                |                |                      |                |     |         |         |      |                |              |

1. Total no.of complaints received : \_\_\_\_\_

2. Total no. of complaints attended:

**CHECKLIST**

| <b>Sl. No.</b> | <b>Particulars</b>                                                                                                                                           | <b>Details</b> | <b>Document Proof</b>    |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|
| 1              | Name of the agency / firm / company                                                                                                                          |                |                          |
| 2              | Address of the Office of the agency / firm / company<br>Land Line No<br>Mobile No Email                                                                      |                |                          |
| 3              | Website / URL of the agency (all the Institute requirements must be placed on the agencies website for wider publicity)                                      |                |                          |
| 4              | Legal status Individual / proprietary / partnership firm / limited company / corporation, etc.)<br>(Submit Copy of the appropriate registration certificate) |                | Submitted/ Not submitted |
| 5              | Name, designation, and details of contact person.<br>Land Line No<br>Mobile No Email                                                                         |                |                          |
| 6              | Month and Year of commencement.                                                                                                                              |                | Submitted/ Not submitted |
| 7              | In case of company, registration number issued by Registrar of Companies (or) Registration number of the firm                                                |                | Submitted/ Not submitted |
| 8              | Permanent Account Number (PAN).                                                                                                                              |                | Submitted/ Not submitted |
| 9              | Goods and Service Tax Registration number.                                                                                                                   |                | Submitted/ Not submitted |
| 10             | Registration number issued by Regional Provident Fund Commissioner.                                                                                          |                | Submitted/ Not submitted |
| 11             | Registration number issued by Employees State Insurance Corporation.                                                                                         |                | Submitted/ Not submitted |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                 |                          |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 12 | <p>The Average annual financial turnover of the Bidder during preceding three financial year shall not be less than <b>Rupees Three (03) Crore</b> as per the annual report (audited balance sheet and profit &amp; loss account), duly authenticated by a Chartered Accountant.</p> <p><b>The Bidder should have profit in the last financial year.</b></p> <p>Submit copies of the audited Balance Sheets duly certified by the Chartered Accountant and income tax returns filed for all the financial years. FORM-A.</p> <p><b>[These documents are mandatory for the bids to be considered]</b></p> | <p>Financial Year - 2024- 2025:<br/>Rs.....</p> <p>Financial Year - 2023- 2024:<br/>Rs.....</p> <p>Financial Year - 2022- 2023:<br/>Rs.....</p> <p>Financial Year - 2021- 2022:<br/>Rs.....</p> <p>Financial Year - 2020- 2021:<br/>Rs.....</p> | Submitted/ Not submitted |
| 13 | <p>Experience in successful Completion of Civil Maintenance Works in Central / State Government/State Autonomous Bodies / Public Sector Undertaking / reputed private limited companies/ reputed educational institutions/University as on the last date of receipt of bids. Copy of work order must be attached along with work completion/ performance certificate of the concerned and clearly mentioning annual value of contract.</p>                                                                                                                                                               | <p>Should be filled in <b>Annexure-14</b> along with the documentary proof. Copy of work order must be attached along with work completion/ performance certificate of the concerned and clearly mentioning annual value of contract.</p>       | Submitted/ Not submitted |
| 14 | <p>In case the tender is signed by the person other than the sole proprietor / owner, authorization given by the Executive Body authorizing the officer / partner for signing the tender documents for this tender to be submitted on letter head.</p>                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                 | Submitted/ Not submitted |
| 15 | Submit certificate of non-blacklisting as provided in Annexure-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                 | Submitted/ Not submitted |
| 16 | Earnest Money Deposit payment details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 | Submitted/ Not submitted |
| 17 | Submit acceptance of Process compliance as provided in Annexure-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                 | Submitted/ Not submitted |
| 18 | Submit Bid security declaration as provided in Annexure-10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                 | Submitted/ Not submitted |

|    |                                                                                                                                  |                                    |                          |
|----|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------|
| 19 | Submit unconditional acceptance of the tender terms and conditions on a letter head in the prescribed format given at Annexure-8 |                                    | Submitted/ Not submitted |
| 20 | Submit No relation certificate as provided in Annexure-9                                                                         |                                    | Submitted/ Not submitted |
| 21 | Submitted Mandate form for electronic fund transfer/ RTGS as provided in Annexure-11                                             |                                    | Submitted/ Not submitted |
| 22 | Solvency certificate details                                                                                                     | Bank:<br>Date of Issue:<br>Amount: | Submitted/ Not submitted |
| 23 | Sign all pages of the tender document that are signed by the tenderer.                                                           | Yes/No                             |                          |
| 24 | Any other information relevant to the tender                                                                                     |                                    |                          |

**Date:**

**Place:**

**Seal**

**Authorized Signatory**

**Name:**

**Designation:**

**Contact No:**

***\*Filling of checklist is mandatory.***

PART-B  
Price Bid



# NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 15

Web: [www.nitt.edu](http://www.nitt.edu)

Phone: 0431 –250 3830



## PRICE BID

|                           |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
| <b>Name of work</b>       | <b>Annual Maintenance Contract for Civil Works for Institute &amp; Quarters Zones at NIT-Trichy.</b> |
| <b>Value of work</b>      | <b>Rs. 1,53,81,300/- (Incl. GST)</b>                                                                 |
| <b>Tender Enquiry No.</b> | <b>NITT/EMD/AMC/CVL/Tender/2026-27/10<br/>Dt: 21.08.2026</b>                                         |
| <b>Period of Contract</b> | <b>12 Months (Extendable for two years based on performance)</b>                                     |

**SCHEDULE 'A'**

## LIST OF WORKS AND PRICES

## NAME OF WORK:

The items mentioned in the Schedule-A are indicative. These items only use mostly. If any additional items need to be executed based on the requirement and rates will be calculated as per the procedure mentioned in the tender document.

The bidder shall quote a percentage rate (+/-) on the above contract value. The percentage quoted by the successful bidder shall be uniformly applicable to all items specified in Schedule-A of the tender document. Accordingly, the rates payable for individual items shall be derived by applying the quoted percentage over or below the corresponding item rates in Schedule-A.

The work under each item as executed shall be measured and priced at the corresponding rate calculated based on the quoted percentage by the contractor in the Price Bid.

| Sl.No. | Description of work / supplied                                                            | Total amount of work<br>(in figures and words)<br>Rs.    Ps.                             | Period of contract                                         |
|--------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 1.     | Annual Maintenance Contract for Civil Works for Institute & Quarters Zones at NIT-Trichy. | Rs.1,30,35,000/-<br>(Rupees One Crore Thirty Lakh Thirty-Five Thousand Only) (Excl. GST) | 12 Months<br>(Extendable for 2 years based on performance) |

| <b>SCHEDULE-A</b>    |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |
|----------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>Name of Work:</b> |                      | <b>Annual Maintenance Contract for Civil Works for Institute &amp; Quarters Zones at NIT-Trichy.</b>                                                                                                                                                                                                                                                                                                                                        |                       |
| <b>ITEM No</b>       | <b>DSR No. /Code</b> | <b>SUB-HEADS AND ITEM OF WORK</b>                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Estimated Rate</b> |
| 1                    | 2.1                  | Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in-Charge:                                                                                                                                                                                                |                       |
| 1.A                  | 2.1.1                | All kinds of soil                                                                                                                                                                                                                                                                                                                                                                                                                           | 120.99                |
| 2                    | 2.7                  | Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in- charge.                                                                                                                                              |                       |
| 2.A                  | 2.7.1                | Ordinary rock                                                                                                                                                                                                                                                                                                                                                                                                                               | 464.87                |
| 2.B                  | 2.7.2                | Hard rock (requiring blasting)                                                                                                                                                                                                                                                                                                                                                                                                              | 814.76                |
| 3                    | 2.8                  | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.                                                                               |                       |
| 3.A                  | 2.8.1                | All kinds of soil.                                                                                                                                                                                                                                                                                                                                                                                                                          | 242.54                |
| 4                    | 2.10                 | Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : |                       |
| 4.1                  | 2.10.1               | All kinds of soil                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |
| 4.1.A                | 2.10.1.1             | Pipes, cables etc, not exceeding 80 mm dia.                                                                                                                                                                                                                                                                                                                                                                                                 | 200.89                |
| 4.1.B                | 2.10.1.2             | Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia                                                                                                                                                                                                                                                                                                                                                                        | 328.13                |
| 4.1.C                | 2.10.1.3             | Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm                                                                                                                                                                                                                                                                                                                                                                            | 512.25                |
| 5                    | 2.13                 | Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m : |                       |
| 5.1                  | 2.13.1               | Ordinary rock :                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |
| 5.1.A                | 2.13.1.1             | Pipes, cables etc. not exceeding 80 mm dia                                                                                                                                                                                                                                                                                                                                                                                                  | 375.79                |
| 5.1.B                | 2.13.1.2             | Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia                                                                                                                                                                                                                                                                                                                                                                         | 930.54                |
| 5.2                  | 2.13.2               | Hard rock (requiring blasting)                                                                                                                                                                                                                                                                                                                                                                                                              |                       |
| 5.2.A                | 2.13.2.1             | Pipes, cables etc. not exceeding 80 mm dia                                                                                                                                                                                                                                                                                                                                                                                                  | 562.06                |
| 5.2.B                | 2.13.2.2             | Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia                                                                                                                                                                                                                                                                                                                                                                         | 1391.73               |
| 6                    | 2.25                 | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.                                                                                                                                                                                                        | 182.63                |
| 7                    | 2.27                 | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.                                                                                                                                                                                                                                                                                                                   | 1978.90               |

|      |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |
|------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 8    | 2.28   | Surface dressing of the ground including removing vegetation and in- equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.                                                                                                                                                                                                                                                                                                                                                                       |          |
| 8.A  | 2.28.1 | All kinds of soil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 31.82    |
| 9    | 2.31   | Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.                                                                                                                                                                                                                                                                                  | 16.40    |
| 10   | 2.32   | Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8.34     |
| 11   | 2.38   | Filling with available fly ash and earth (excluding rock) in trenches or embankment in layers (each layer should not exceed 15 cm), with intermediate layer of compacted earth (Soil density of 98%) after every four layers of compacted depth of fly ash, sides & top layer of filling shall be done with earth having total minimum compacted thickness 30 cm or as decided by Engineer - in-charge, including compacting each layer by rolling/ ramming and watering, all complete as per drawing and direction of Engineer -in - charge. | 287.18   |
| 12   | 4.1    | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :                                                                                                                                                                                                                                                                                                                                                                                            |          |
| 12.A | 4.1.2  | 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7771.98  |
| 12.B | 4.1.3  | 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7341.17  |
| 12.C | 4.1.10 | 1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 40 mm nominal size).                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6074.02  |
| 13   | 4.17   | Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.                                                                                                                                                                                                  | 698.19   |
| 14   | 5.1    | Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :                                                                                                                                                                                                                                                                                                                                                      |          |
| 14.A | 5.1.2  | 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8428.82  |
| 14.B | 5.1.3  | 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7997.99  |
| 15   | 5.2    | Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :                                                                                                                                                                                                                           |          |
| 15.A | 5.2.2  | 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10112.75 |
| 16   | 5.3    | Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).                                                                                                                | 10720.81 |
| 17   | 5.9    | Centering and shuttering including strutting, propping etc. and removal of form for:                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |

|      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
|------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 17.A | 5.9.1   | Foundations, footings, bases of columns, etc. for mass concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 365.41   |
| 17.B | 5.9.2   | Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 785.04   |
| 17.C | 5.9.3   | Suspended floors, roofs, landings, balconies and access platform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 864.01   |
| 17.D | 5.9.4   | Shelves (Cast in situ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 864.01   |
| 17.E | 5.9.5   | Lintels, beams, plinth beams, girders, bressumers and cantilevers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 686.18   |
| 17.F | 5.9.6   | Columns, Pillars, Piers, Abutments, Posts and Struts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 895.74   |
| 17.G | 5.9.7   | Stairs, (excluding landings) except spiral-staircases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 712.78   |
| 18   | 5.16    | Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in shelves, including setting in cement mortar 1:3 (1cement : 3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).                                                                                                                                                                                                                                                                                                                                                                  | 18967.49 |
| 19   | 5.18    | Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing with cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 19.A | 5.18.1  | 50 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1758.21  |
| 20   | 5.22    | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| 20.A | 5.22.3  | Cold twisted bars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100.49   |
| 20.B | 5.22.6  | Thermo-Mechanically Treated bars of grade Fe-500D or more.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100.49   |
| 21   | 5.22A   | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
| 21.A | 5.22A.3 | Cold twisted bars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100.49   |
| 21.B | 5.22A.6 | Thermo-Mechanically Treated bars of grade Fe-500 D or more.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100.49   |
| 22   | 5.33    | Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.“(Note :- Cement content considered in this item is @ 330 kg/cum.“Excess/ less cement used as per design mix is payable/recoverable separately).                                                                                                               |          |
| 22.A | 5.33.1  | All works upto plinth level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8856.51  |
| 22.B | 5.33.2  | All works above plinth level upto floor V level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 9187.91  |
| 23   | 5.45    | Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall conform to ASTM 6063.) |          |
| 23.A | 5.45.1  | Wall Joint of 100 mm gap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4943.80  |
| 23.B | 5.45.2  | Wall Joint of 150 mm gap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5573.45  |

|        |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
|--------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 24     | 5.46    | Providing and fixing of expansion joint system of approved make and manufacture for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arrangement support plates as per ASTM B221-02. The system shall be such that it provides water tight roof to roof /roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to ASTM 6063.) |         |
| 24.A   | 5.46.1  | Roof Joint of 100 mm gap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5577.47 |
| 24.B   | 5.46.2  | Roof Joint of 150 mm gap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6242.91 |
| 25     | 6.1     | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| 25.A   | 6.1.2   | Cement mortar 1:6 (1 cement : 6 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6645.81 |
| 26     | 6.4     | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| 26.A   | 6.4.2   | Cement mortar 1:6 (1 cement : 6 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8484.91 |
| 27     | 6.12    | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| 27.A   | 6.12.2  | Cement mortar 1:4 (1 cement : 4 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 843.32  |
| 28     | 6.13    | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| 28.A   | 6.13.2  | Cement mortar 1:4 (1 cement :4 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1047.16 |
| 29     | 7.1     | Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| 29.A   | 7.1.1   | Cement mortar 1:6 (1 cement : 6 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6812.61 |
| 30     | 8.2     | Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
| 30.1   | 8.2.2   | Granite of any colour and shade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| 30.1.A | 8.2.2.1 | Area of slab upto 0.50 sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5044.29 |
| 30.1.B | 8.2.2.2 | Area of slab over 0.50 sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4785.99 |
| 31     | 8.3     | Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| 31.A   | 8.3.2   | Granite work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 476.10  |

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| 32     | 8.10    | Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.                                                                                   |           |
| 32.A   | 8.10.2  | Granite Stone of approved shade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3775.51   |
| 33     | 8.26    | Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood Pre-laminated one side decorative lamination and other side balancing lamination Grade I, Type II, IS : 12823 marked, including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete :                                                                                                                                                                           |           |
| 33.A   | 8.26.1  | 12 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1332.65   |
| 33.B   | 8.26.2  | 18 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1390.98   |
| 33.C   | 8.26.3  | 25 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1844.50   |
| 34     | 8.28    | Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with :                                                                                                                                                                                                                                                                                                            |           |
| 34.A   | 8.28.1  | Decorative veneer facings of approved manufacture                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1813.51   |
| 35     | 8.31    | Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. | 1181.47   |
| 36     | 9.1     | Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately).                                                                                                                                                                                                                                                       |           |
| 36.A   | 9.1.1   | Second class teak wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 133200.24 |
| 37     | 9.3     | Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position :                                                                                                                                                                                                                                                                                                                                                                                                                          |           |
| 37.A   | 9.3.1   | Sal wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 97609.90  |
| 38     | 9.5     | Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.                                                                                                                                                                                            |           |
| 38.1   | 9.5.1   | Second class teak wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| 38.1.A | 9.5.1.1 | 35 mm thick shutters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3831.50   |
| 38.1.B | 9.5.1.2 | 30 mm thick shutters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3491.72   |
| 39     | 9.7     | Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :                                                                                                                                                                                           |           |
| 39.1   | 9.7.1   | Second class teak wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3096.55   |
| 39.2   | 9.7.5   | Particle Board 12 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |
| 39.2.A | 9.7.5.3 | Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side, Grade I, Type II IS: 12823 marked                                                                                                                                                                                                                                                                                                                                                                         | 1939.11   |

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| 39.2.B | 9.7.5.4  | Pre-laminated particle board with decorative lamination on both sides, Grade I, Type II, IS:12823 marked                                                                                                                                                                                                                                                                                      | 1913.40 |
| 40     | 9.9      | Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.                                                                                                                                                                      |         |
| 40.1   | 9.9.1    | Second class teak wood                                                                                                                                                                                                                                                                                                                                                                        |         |
| 40.1.A | 9.9.1.1  | 35 mm thick                                                                                                                                                                                                                                                                                                                                                                                   | 4603.27 |
| 40.1.B | 9.9.1.2  | 30 mm thick                                                                                                                                                                                                                                                                                                                                                                                   | 4214.90 |
| 41     | 9.16     | Providing and fixing 25 mm thick shutters for cup board etc. :                                                                                                                                                                                                                                                                                                                                |         |
| 41.1   | 9.16.1   | Panelled or panelled & glazed shutters :                                                                                                                                                                                                                                                                                                                                                      |         |
| 41.1.A | 9.16.1.1 | Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws                                                                                                                                                                                                                                                                                              | 4102.57 |
| 41.1.B | 9.16.1.2 | Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws                                                                                                                                                                                                                                                                             | 4233.07 |
| 41.2   | 9.16.2   | Glazed shutters :                                                                                                                                                                                                                                                                                                                                                                             |         |
| 41.2.A | 9.16.2.1 | Second class teak wood including ISI marked anodized aluminium butt hinges with necessary screws                                                                                                                                                                                                                                                                                              | 3907.26 |
| 42     | 9.17     | Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately):                                                                                                                                 |         |
| 42.A   | 9.17.1   | 12 mm thick                                                                                                                                                                                                                                                                                                                                                                                   | 748.18  |
| 42.B   | 9.17.2   | 18 mm thick                                                                                                                                                                                                                                                                                                                                                                                   | 951.32  |
| 43     | 9.18     | Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately). |         |
| 43.A   | 9.18.1   | 18 mm thick                                                                                                                                                                                                                                                                                                                                                                                   | 1160.79 |
| 43.B   | 9.18.2   | 25 mm thick                                                                                                                                                                                                                                                                                                                                                                                   | 1598.22 |
| 44     | 9.20     | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.                                                                                                |         |
| 44.A   | 9.20.1   | 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws                                                                                                                                                                                                                                                                                                            | 3236.93 |
| 45     | 9.21     | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:                                                                                      |         |
| 45.A   | 9.21.1   | 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws                                                                                                                                                                                                                                                                                                            | 2229.47 |
| 45.B   | 9.21.3   | 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws                                                                                                                                                                                                                                                                         | 1950.91 |
| 46     | 9.23     | Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).                                                                                                                                                                                                                          | 430.81  |
| 47     | 9.24     | Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):                                                                                                                                                                                                                                     |         |
| 47.A   | 9.24.1   | Rectangular or square                                                                                                                                                                                                                                                                                                                                                                         | 185.57  |



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| 48   | 9.26   | Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).                                                                                                                                                                      | 99.42   |
| 49   | 9.45   | Providing and fixing teak wood lipping of size 25x3 mm in pelmet.                                                                                                                                                                                                | 68.67   |
| 50   | 9.46   | Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete :                                                       |         |
| 50.A | 9.46.2 | 20 mm dia                                                                                                                                                                                                                                                        | 366.43  |
| 50.B | 9.46.3 | 25 mm dia                                                                                                                                                                                                                                                        | 489.71  |
| 51   | 9.47   | Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :                                                                                                                                                                          |         |
| 51.A | 9.47.1 | 20 mm dia (heavy type)                                                                                                                                                                                                                                           | 163.07  |
| 51.B | 9.47.2 | 25 mm dia (heavy type)                                                                                                                                                                                                                                           | 173.69  |
| 52   | 9.48   | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.                                                                        |         |
| 52.A | 9.48.2 | Fixed to openings /wooden frames with rawl plugs screws etc.                                                                                                                                                                                                     | 222.09  |
| 53   | 9.53   | Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size). | 213.24  |
| 54   | 9.76   | Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.                                                                                      | 796.36  |
| 55   | 9.80   | Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with necessary screws.                                                                                                                                           | 69.19   |
| 56   | 9.83   | Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete. | 1048.13 |
| 57   | 9.90   | Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.                                                                                                          |         |
| 57.A | 9.90.2 | Size 50 mm                                                                                                                                                                                                                                                       | 311.18  |
| 58   | 9.91   | Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.                                                                                                                                                                  | 140.75  |
| 59   | 9.95   | Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:                                                   |         |
| 59.A | 9.95.1 | 125x75x4 mm                                                                                                                                                                                                                                                      | 139.86  |
| 59.B | 9.95.2 | 125x63x4 mm                                                                                                                                                                                                                                                      | 118.02  |
| 59.C | 9.95.3 | 100x75x4 mm                                                                                                                                                                                                                                                      | 107.53  |
| 60   | 9.96   | Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :                                        |         |
| 60.A | 9.96.1 | 300x16 mm                                                                                                                                                                                                                                                        | 282.57  |
| 60.B | 9.96.2 | 250x16 mm                                                                                                                                                                                                                                                        | 242.83  |
| 61   | 9.97   | Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :                                             |         |
| 61.A | 9.97.1 | 300x10 mm                                                                                                                                                                                                                                                        | 121.23  |
| 61.B | 9.97.2 | 250x10 mm                                                                                                                                                                                                                                                        | 107.29  |

|      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
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| 61.C | 9.97.3  | 200x10 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 92.90   |
| 61.D | 9.97.4  | 150x10 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 76.92   |
| 61.E | 9.97.5  | 100x10 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 60.29   |
| 62   | 9.100   | Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| 62.A | 9.100.1 | 125 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 61.73   |
| 62.B | 9.100.2 | 100 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 55.48   |
| 62.C | 9.100.3 | 75 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 48.22   |
| 63   | 9.101   | Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| 63.A | 9.101.1 | Single rubber stopper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 36.89   |
| 63.B | 9.101.2 | Twin rubber stopper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 67.42   |
| 64   | 9.103   | Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 809.69  |
| 65   | 9.113   | Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer- in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 792.07  |
| 66   | 9.114   | Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| 66.A | 9.114.1 | Triple strip vertical type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 48.92   |
| 66.B | 9.114.2 | Double strip (horizontal type)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 37.00   |
| 67   | 9.119   | Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 459.10  |
| 68   | 9.120   | Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing. |         |
| 68.A | 9.120.1 | 30 mm thick plain PVC door shutters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2965.87 |

|      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
|------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 69   | 9.129   | Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS: 12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge                                                                                                                       | 2149.98 |
| 70   | 9.130   | Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including IInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.                                                                                                                                                                                                                                                       |         |
| 70.A | 9.130.1 | With decorative veneering on one side and commercial veneering on other side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1796.04 |
| 71   | 10.1    | Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.                                                                                                                                                                                                                                                                                                                                                                                              | 109.35  |
| 72   | 10.2    | Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.                                                                                                                                                                                                                                                                                                                                                                                | 124.58  |
| 73   | 10.5    | Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.                                                                                                                                                                                                                                                                                                                                                        |         |
| 73.A | 10.5.1  | Using M.S. angles 40x40x6 mm for diagonal braces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5408.49 |
| 74   | 10.6    | Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. |         |
| 74.A | 10.6.1  | 80x1.25 mm M.S. laths with 1.25 mm thick top cover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3404.05 |
| 75   | 10.7    | Providing and fixing ball bearing for rolling shutters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 458.77  |
| 76   | 10.16   | Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.                                                                                                                                                                                                                                                                                                                      |         |
| 76.A | 10.16.1 | Hot finished welded type tubes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 181.14  |
| 77   | 10.17   | Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.                                                                                                                                                                                                                                                                                                                                                              | 210.59  |
| 78   | 10.19   | Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 90.57   |
| 79   | 10.25   | Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.                                                                                                                                                                                                                                                                                                                                                                                               |         |
| 79.A | 10.25.1 | In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 115.17  |
| 79.B | 10.25.2 | In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 160.83  |

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| 80   | 10.28   | Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.). | 719.72  |
| 81   | 11.1    | Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| 81.A | 11.1.2  | 1:6 (1cement : 6 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 899.69  |
| 82   | 11.3    | Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
| 82.A | 11.3.1  | 40 mm thick with 20 mm nominal size stone aggregate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 572.31  |
| 83   | 11.26   | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| 83.A | 11.26.1 | 25 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1815.38 |
| 84   | 11.37   | Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.                                                                                                                                                                                                                                                 | 1021.77 |
| 85   | 11.41   | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.                                                                                                                                                                                                                                                      |         |
| 85.A | 11.41.2 | Size of Tile 600x600 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1447.50 |
| 86   | 11.46   | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete.                                                                                                                                                                                                                                   |         |
| 86.A | 11.46.2 | Size of Tile 600x600 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1512.36 |
| 86.B | 11.46.4 | Size of Tile 1000x1000 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2015.11 |
| 87   | 11.47   | Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).                                                                                                                                                                                       |         |
| 87.A | 11.47.2 | Size of Tile 600x600 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1764.73 |

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| 88     | 11.56     | Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand), laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. |         |
| 88.A   | 11.56.1   | Polished Granite stone slab of colour Black, Cherry/Ruby Red or equivalent                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4175.67 |
| 89     | 12.16     | 10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat:                                                                                                                           |         |
| 89.A   | 12.16.1   | With common burnt clay F.P.S.(non modular) brick tile of class designation 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 978.57  |
| 90     | 12.20     | Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.                                                                                                                                                                                                             | 661.34  |
| 91     | 12.22     | Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.                                                                                                                                                                          | 277.91  |
| 92     | 12.41     | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.                                                                                                                                                                                                                                                                                                        |         |
| 92.A   | 12.41.1   | 75 mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 231.83  |
| 92.B   | 12.41.2   | 110 mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 351.66  |
| 93     | 12.42     | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.                                                                                                                                                                                                                                                                             |         |
| 93.1   | 12.42.1   | Coupler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| 93.1.A | 12.42.1.1 | 75 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 85.45   |
| 93.1.B | 12.42.1.2 | 110 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 126.87  |
| 93.2   | 12.42.3   | Single tee with door                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| 93.2.A | 12.42.3.1 | 75x75x75 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 153.00  |
| 93.2.B | 12.42.3.2 | 110x110x110 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 218.18  |
| 93.3   | 12.42.4   | Single tee without door                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| 93.3.A | 12.42.4.1 | 75x75x75 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 134.46  |
| 93.3.B | 12.42.4.2 | 110x110x110 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 206.26  |
| 93.4   | 12.42.5   | Bend 87.5°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| 93.4.A | 12.42.5.1 | 75 mm bend                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 98.68   |
| 93.4.B | 12.42.5.2 | 110 mm bend                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 140.10  |
| 93.5   | 12.42.6   | Shoe (Plain)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| 93.5.A | 12.42.6.1 | 75 mm Shoe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 86.75   |
| 93.5.B | 12.42.6.2 | 110 mm Shoe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 122.85  |

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| 94   | 12.43   | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| 94.A | 12.43.1 | 75 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 344.63  |
| 94.B | 12.43.2 | 110 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 345.97  |
| 95   | 12.45   | Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with : |         |
| 95.A | 12.45.1 | 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1263.33 |
| 95.B | 12.45.4 | Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer- in-charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1625.20 |
| 96   | 12.50   | Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer- in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 688.27  |

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| 97    | 12.51   | Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| 97.A  | 12.51.1 | Ridges plain (500 - 600mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 496.05  |
| 98    | 12.52   | Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. |         |
| 98.A  | 12.52.2 | GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient ) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation and backed with a black Glass fiber acoustical fleece.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1927.66 |
| 99    | 13.1    | 12 mm cement plaster of mix :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| 99.A  | 13.1.1  | 1:4 (1 cement: 4 fine sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 323.38  |
| 99.B  | 13.1.2  | 1:6 (1 cement: 6 fine sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 310.61  |
| 100   | 13.2    | 15 mm cement plaster on the rough side of single or half brick wall of mix :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| 100.A | 13.2.2  | 1:6 (1 cement: 6 fine sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 356.88  |
| 101   | 13.3    | 20 mm cement plaster of mix :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| 101.A | 13.3.2  | 1:6 (1 cement: 6 fine sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 419.31  |
| 102   | 13.16   | 6 mm cement plaster of mix :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| 102.A | 13.16.1 | 1:3 (1 cement : 3 fine sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 279.96  |
| 103   | 13.26   | Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 244.78  |
| 104   | 13.33   | Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| 104.A | 13.33.1 | Flush/ Ruled pointing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 359.11  |
| 105   | 13.37   | White washing with lime to give an even shade :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| 105.A | 13.37.1 | New work (three or more coats)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36.39   |
| 106   | 13.41   | Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| 106.A | 13.41.1 | New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 172.99  |

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| 107   | 13.44   | Finishing walls with water proofing cement paint of required shade :                                                                                                                                                                                              |        |
| 107.A | 13.44.1 | New work (Two or more coats applied @ 3.84 kg/10 sqm)                                                                                                                                                                                                             | 108.93 |
| 108   | 13.46   | Finishing walls with Acrylic Smooth exterior paint of required shade :                                                                                                                                                                                            |        |
| 108.A | 13.46.1 | New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)                                                                                                                                 | 149.65 |
| 109   | 13.47   | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:                                                                                                                                                             |        |
| 109.A | 13.47.1 | New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)                                                                                                                                | 159.43 |
| 110   | 13.50   | Applying priming coat:                                                                                                                                                                                                                                            |        |
| 110.A | 13.50.2 | With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood                                                                                                                                                                  | 69.56  |
| 110.B | 13.50.3 | With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works                                                                                                                                           | 62.81  |
| 110.C | 13.50.4 | With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)                                                                                                                                                     | 33.64  |
| 111   | 13.52   | Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.                                                              |        |
| 111.A | 13.52.2 | On concrete work                                                                                                                                                                                                                                                  | 219.11 |
| 112   | 13.61   | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :                                                                                                                                                                    |        |
| 112.A | 13.61.1 | Two or more coats on new work                                                                                                                                                                                                                                     | 145.27 |
| 113   | 13.63   | Painting with aluminium paint of approved brand and manufacture to give an even shade .                                                                                                                                                                           |        |
| 113.A | 13.63.1 | Two or more coats on new work                                                                                                                                                                                                                                     | 136.79 |
| 114   | 13.65   | Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :                                                                                                                                                     |        |
| 114.A | 13.65.1 | Two or more coats on new work                                                                                                                                                                                                                                     | 130.68 |
| 115   | 13.68   | French spirit polishing :                                                                                                                                                                                                                                         |        |
| 115.A | 13.68.1 | Two or more coats on new works including a coat of wood filler                                                                                                                                                                                                    | 415.82 |
| 116   | 13.81   | Distempering with 1st quality acrylic distemper (ready mixed) having VOC (Volatile Organic Compound ) content less than 50 gram/ litre, of approved brand and manufacturer including applying additional coats wherever required to achieve even shade and colour |        |
| 116.A | 13.81.1 | Old work (one or more coats)                                                                                                                                                                                                                                      | 58.42  |
| 117   | 13.82   | Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.                 |        |
| 117.A | 13.82.1 | One coat                                                                                                                                                                                                                                                          | 85.72  |
| 117.B | 13.82.2 | Two coats                                                                                                                                                                                                                                                         | 128.07 |
| 118   | 13.85   | Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.                                                                                                                                        |        |
| 118.A | 13.85.1 | With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre                                                                                                                                               | 65.55  |
| 118.B | 13.85.3 | With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre                                                                                                                                                                    | 68.91  |
| 119   | 13.87   | White washing with lime to give an even shade :                                                                                                                                                                                                                   |        |
| 119.A | 13.87.1 | Old work (two or more coats)                                                                                                                                                                                                                                      | 21.29  |



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| 120   | 13.88    | Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete                                                                                                                                                                                                                                                                                                                                                                                                     | 18.41   |
| 121   | 13.91    | Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.                                                                                                                                                                                                                                                                                                                                                       | 23.44   |
| 122   | 13.99    | Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| 122.A | 13.99.1  | One or more coats on old work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 95.79   |
| 123   | 13.103   | French spirit polishing :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| 123.A | 13.103.1 | One or more coats on old work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 209.47  |
| 124   | 13.109   | Finishing walls with water proofing cement paint of required shade :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| 124.A | 13.109.1 | Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat.                                                                                                                                                                                                                                                                                                                                                                                                  | 105.20  |
| 124.B | 13.109.2 | Old work (one or more coats @ 2.20 kg/10 sqm) complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 70.63   |
| 125   | 13.100   | Painting with aluminium paint of approved brand and manufacture to give an even shade:                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
| 125.A | 13.100.1 | One or more coats on old work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 89.45   |
| 126   | 13.111   | Finishing walls with Acrylic Smooth exterior paint of required shade :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
| 126.A | 13.111.1 | Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 112.51  |
| 126.B | 13.111.2 | Old work (One or more coat applied @ 0.90 ltr/10 sqm).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 75.15   |
| 127   | 14.1     | Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.                                                                                                                                                                                                                    |         |
| 127.A | 14.1.1   | With cement mortar 1:4 (1 cement : 4 fine sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 510.07  |
| 128   | 14.2     | Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge. |         |
| 128.A | 14.2.1   | Door chowkhats                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1660.98 |
| 128.B | 14.2.2   | Window chowkhats                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1048.41 |
| 129   | 14.3     | Fixing chowkhat in existing opening in brick/ RCC wall with dash fasteners/ Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener.                                                                                                                                                                                                                                                                          | 202.29  |
| 130   | 14.4     | Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per directions of Engineer-In-Charge.                                                                                                                                                                                                                                |         |
| 130.A | 14.4.1   | For door/ window/ clerestory window                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1178.12 |
| 131   | 14.5     | Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| 131.A | 14.5.1   | Float glass panes of thickness 4 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1016.27 |
| 132   | 14.6     | Renewing glass panes, with wooden fillets wherever necessary:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| 132.A | 14.6.1   | Float glass panes of thickness 4 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1473.08 |
| 133   | 14.7     | Renewing glass panes and refixing existing wooden fillets:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |

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| 133.A | 14.7.1  | Float glass panes of thickness 4 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1143.59 |
| 133.B | 14.7.2  | Float glass panes of thickness 5.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1446.85 |
| 134   | 14.9    | Renewal of old putty of glass panes (length)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 52.32   |
| 135   | 14.10   | Refixing old glass panes with putty and nails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 680.07  |
| 136   | 14.11   | Fixing old glass panes with wooden fillets (excluding cost of fillets)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 633.25  |
| 137   | 14.17   | Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 67.51   |
| 138   | 14.18   | Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on top of mud phaska :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| 138.A | 14.18.1 | With F.P.S. brick tiles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 128.31  |
| 139   | 14.72   | Providing and fixing single scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer- in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done. | 180.89  |
| 140   | 14.90   | Providing and laying APP (Atactic Polypropylene Polymer) modifiedprefabricated five layer, 3 mm thick water proofing membrane, blackfinished reinforced with glass fibre matt consisting of a coat of bitumenprimer for bitumen membrane @ 0.40 litre/sqm by the same membranemanufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160cps. Over the primer coat the layer of membrane shall be laid using butanetorch and sealing all joints etc., and preparing the surface complete. Thevital physical and chemical parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23°C as 350/300N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N.Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The layingof membrane shall be got done through the authorised applicator of themanufacturer of membrane :                                                              |         |
| 140.A | 14.90.1 | 3 mm thick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 500.79  |
| 141   | 15.2    | Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| 141.A | 15.2.2  | Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1401.05 |
| 142   | 15.3    | Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3309.05 |
| 143   | 15.7    | Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
| 143.A | 15.7.4  | In cement mortar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1919.69 |
| 144   | 15.9    | Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |

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| 144.A | 15.9.2  | In cement mortar                                                                                                                                                                                                                        | 2291.24 |
| 145   | 15.12   | Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :                                                                 |         |
| 145.A | 15.12.1 | Of area 3 sq. metres and below                                                                                                                                                                                                          | 342.15  |
| 145.B | 15.12.2 | Of area beyond 3 sq. metres                                                                                                                                                                                                             | 468.46  |
| 146   | 15.13   | Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :                                                                                                                     |         |
| 146.A | 15.13.1 | Of area 3 sq. metres and below                                                                                                                                                                                                          | 133.71  |
| 146.B | 15.13.2 | Of area beyond 3 sq. metres                                                                                                                                                                                                             | 176.02  |
| 147   | 15.14   | Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead :                                                                          |         |
| 147.A | 15.14.1 | Of sectional area 40 square centimetres and above                                                                                                                                                                                       | 4154.98 |
| 148   | 15.18   | Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.                       | 5.27    |
| 149   | 15.23   | Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.                                                                                                                      |         |
| 149.A | 15.23.1 | For thickness of tiles 10 mm to 25 mm                                                                                                                                                                                                   | 68.40   |
| 149.B | 15.23.2 | For thickness of tiles above 25 mm and up to 40 mm                                                                                                                                                                                      | 105.62  |
| 150   | 15.25   | Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.                                                                          | 248.27  |
| 151   | 15.26   | Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.                                                                                   | 98.16   |
| 152   | 15.28   | Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:                                                                                                               |         |
| 152.A | 15.28.2 | Asbestos sheet                                                                                                                                                                                                                          | 72.03   |
| 153   | 15.39   | Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead :                                                                                             |         |
| 153.A | 15.39.2 | Thickness above 10 mm up to 25 mm                                                                                                                                                                                                       | 72.44   |
| 153.B | 15.39.3 | Thickness above 25 mm up to 40 mm                                                                                                                                                                                                       | 84.19   |
| 154   | 15.40   | Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead :                                                                                                                   |         |
| 154.A | 15.40.1 | Thickness up to 40 mm                                                                                                                                                                                                                   | 269.57  |
| 155   | 15.41   | Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.                                                   | 52.51   |
| 156   | 15.42   | Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :                                                                                                           |         |
| 156.A | 15.42.1 | 75 to 80 mm dia pipe                                                                                                                                                                                                                    | 70.53   |
| 156.B | 15.42.2 | 100 mm dia pipe                                                                                                                                                                                                                         | 72.68   |
| 157   | 15.44   | Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge : |         |
| 157.A | 15.44.1 | 15 mm to 40 mm nominal bore                                                                                                                                                                                                             | 139.59  |
| 157.B | 15.44.2 | Above 40 mm nominal bore                                                                                                                                                                                                                | 150.39  |

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| 158   | 15.45   | Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge:                                                                                               |          |
| 158.A | 15.45.1 | Up to 150 mm diameter                                                                                                                                                                                                                                                                                                                                                                                   | 309.73   |
| 158.B | 15.45.2 | Above 150 mm dia up to 300 mm dia                                                                                                                                                                                                                                                                                                                                                                       | 425.50   |
| 159   | 15.52   | Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.                                                                                                                                                                                                              | 104.41   |
| 160   | 15.56   | Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.                                                                                                                                                                                                                                   | 50.92    |
| 161   | 15.57   | Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.                                                                                                                                                           | 52.51    |
| 162   | 15.60   | Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.                                                                                            | 245.94   |
| 163   | 16.1    | Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.                                                                | 203.97   |
| 164   | 16.2    | Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).                                                                                                                                                                                                                                                   | 23.15    |
| 165   | 16.3    | Supplying and stacking at site.                                                                                                                                                                                                                                                                                                                                                                         | 0.00     |
| 165.A | 16.3.2  | 63 mm to 45 mm size stone aggregate                                                                                                                                                                                                                                                                                                                                                                     | 1524.47  |
| 165.B | 16.3.8  | Red bajri                                                                                                                                                                                                                                                                                                                                                                                               | 1458.17  |
| 165.C | 16.3.9  | Good earth                                                                                                                                                                                                                                                                                                                                                                                              | 722.61   |
| 165.D | 16.3.10 | Moorum                                                                                                                                                                                                                                                                                                                                                                                                  | 715.86   |
| 166   | 16.4    | Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density . | 975.54   |
| 167   | 16.6    | Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling.                                                                                                                                                                                                                                                                 |          |
| 167.A | 16.6.1  | With road roller/ hand roller                                                                                                                                                                                                                                                                                                                                                                           | 22.78    |
| 168   | 16.11   | Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.                                                                                                                                                                                                                                                                                                             | 822.92   |
| 169   | 16.13   | Cutting road and making good the same including supply of extra quantities of materials i.e. aggregate, moorum screening, red bajri and labour required.                                                                                                                                                                                                                                                |          |
| 169.A | 16.13.1 | bituminous portion                                                                                                                                                                                                                                                                                                                                                                                      | 4689.04  |
| 169.B | 16.13.2 | Water bound macadam                                                                                                                                                                                                                                                                                                                                                                                     | 2868.12  |
| 170   | 16.15   | Supplying at site :                                                                                                                                                                                                                                                                                                                                                                                     |          |
| 170.A | 16.15.1 | R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in- charge (cost of earth works in excavation, concrete works in foundation to be paid separately).                                                                             | 30647.95 |

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| 171     | 16.17     | Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used. |        |
| 171.A   | 16.17.1   | With G.I. barbed wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13.04  |
| 172     | 16.18     | Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately). Payment to be made per metre cost of total length of barbed wire used.                          |        |
| 172.A   | 16.18.1   | With G.I. barbed wire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20.59  |
| 173     | 16.19     | Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                             | 117.17 |
| 174     | 16.31     | Providing and applying tack coat using bitumen emulsion conforming to IS:8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |
| 174.1   | 16.31.1   | With rapid setting bitumen emulsion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |
| 174.1.A | 16.31.1.1 | On W.B.M / W.M.M. @ 0.4kg/sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12.53  |
| 174.1.B | 16.31.1.2 | On bituminous surface @ 0.25kg/sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8.58   |
| 174.2   | 16.31.2   | With medium setting bitumen emulsion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |
| 174.2.A | 16.31.2.1 | On W.B.M / W.M.M. @ 0.4kg/sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19.75  |
| 174.2.B | 16.31.2.2 | On bituminous surface @ 0.25kg/sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 13.10  |
| 175     | 16.36     | Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface accuracy                                          |        |
| 175.A   | 16.36.1   | For 50 mm compacted thickness using coarse aggregate of size 50-20 mm graded @ 0.60 cum per 10 sqm key aggregate of size 12.5 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 50 kg/ 10 sqm.                                                                                                                                                                                                                                                                                                                                                                                                                    | 471.16 |
| 175.B   | 16.36.2   | For 75 mm compacted thickness in two layers using stone aggregate of size 63-41 mm graded @ 0.90 cum per 10 sqm key aggregate of size 20.0 mm graded @ 0.18 cum per 10 sqm. With paving asphalt grade VG - 10 @ 68 kg/10 sqm.                                                                                                                                                                                                                                                                                                                                                                                                        | 693.40 |
| 176     | 16.68     | Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.                                                                                                                                                                                                                                | 905.71 |

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| 177   | 16.69   | Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not be more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge). | 9427.56 |
| 178   | 16.70   | Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                      |         |
| 178.A | 16.70.1 | Made of G.I. wire of dia 4 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 948.39  |
| 178.B | 16.70.2 | Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 994.32  |
| 179   | 16.71   | Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                        | 1070.87 |
| 180   | 16.82   | Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.                                                                                                                                                                                                                                                                     | 36.67   |
| 181   | 16.83   | Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.                                                                                                                                                                                                                                                                | 122.76  |
| 182   | 16.84   | Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).                                                                                                                                                                                                              | 375.47  |
| 183   | 16.85   | Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost)                                   | 101.98  |
| 184   | 17.1    | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:                                                                                                                                                                                                      |         |
| 184.A | 17.1.1  | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6305.85 |
| 185   | 17.2    | Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :                                                                                                                                                                                                   |         |
| 185.A | 17.2.1  | W.C. pan with ISI marked white solid plastic seat and lid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6071.17 |

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| 186     | 17.5      | Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : |          |
| 186.A   | 17.5.1    | Single half stall urinal with 5 litre P.V.C. automatic flushing cistern                                                                                                                                                                                                                                                                                                                                                                                    | 11248.44 |
| 187     | 17.7      | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:                                                                                                                                                                                                                             |          |
| 187.A   | 17.7.4    | White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap                                                                                                                                                                                                                                                                                                                                                         | 1751.04  |
| 188     | 17.8      | Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.                                                                                                                                                                                                                                                                                                                 | 1568.54  |
| 189     | 17.10     | Providing and fixing Stainless Steel A ISi 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :                                                                                                                                                                                                                  |          |
| 189.1   | 17.10.1   | Kitchen sink with drain board                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| 189.1.A | 17.10.1.1 | 510x1040 mm bowl depth 250 mm                                                                                                                                                                                                                                                                                                                                                                                                                              | 6471.89  |
| 189.2   | 17.10.2   | Kitchen sink without drain board                                                                                                                                                                                                                                                                                                                                                                                                                           |          |
| 189.2.A | 17.10.2.1 | 610x510 mm bowl depth 200 mm                                                                                                                                                                                                                                                                                                                                                                                                                               | 4603.82  |
| 190     | 17.11     | Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :                                                                                                                                               |          |
| 190.A   | 17.11.2   | Size 600x450x200 mm                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6136.63  |
| 191     | 17.13     | Providing and fixing white vitreous china water closet squatting pan (Indian type) :                                                                                                                                                                                                                                                                                                                                                                       |          |
| 191.A   | 17.13.1   | Long pattern W.C. pan of size 580 mm                                                                                                                                                                                                                                                                                                                                                                                                                       | 1826.14  |
| 192     | 17.15     | Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.                                                                                                                                                                                                                                                                                                                                                  | 2595.01  |
| 193     | 17.18     | Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.                                                                                                                                                                                                                                                                                    |          |
| 193.A   | 17.18.1   | 10 litre capacity - White                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1109.45  |
| 193.B   | 17.18.2   | 10 litre capacity - coloured                                                                                                                                                                                                                                                                                                                                                                                                                               | 1059.08  |
| 194     | 17.20     | Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :                                                                                                                                                                                                                                                                                                                                                                     |          |
| 194.A   | 17.20.1   | White solid plastic seat with lid                                                                                                                                                                                                                                                                                                                                                                                                                          | 638.14   |
| 195     | 17.23     | Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.                                                                                                                                                                                                                                                                                                  | 1536.48  |
| 196     | 17.28     | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.                                                                                                                                                                                                                                                                                                                                                    |          |
| 196.1   | 17.28.1   | Semi rigid pipe                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
| 196.1.A | 17.28.1.1 | 32 mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 96.82    |
| 196.1.B | 17.28.1.2 | 40 mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 108.74   |
| 196.2   | 17.28.2   | Flexible pipe                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| 196.2.A | 17.28.2.1 | 32 mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 111.40   |
| 196.2.B | 17.28.2.2 | 40 mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 111.40   |

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| 197   | 17.31   | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.                                                                                                                                                                                                               | 1498.29  |
| 198   | 17.32   | Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :                                                                                                                                                                                                                            |          |
| 198.A | 17.32.2 | Rectangular shape 453x357 mm                                                                                                                                                                                                                                                                                                                                                                                             | 1268.92  |
| 199   | 17.33   | Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.                                                                                                                                                                                                | 1009.60  |
| 200   | 17.69   | Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.                                                                                                                                                                                                                                                                                                                        |          |
| 200.A | 17.69.1 | Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms                                                                                                                                                                                                                                                                                                                                  | 107.44   |
| 201   | 17.71   | Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.                                                                                                                                                                           | 156.87   |
| 202   | 17.72   | Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.                                                                                                                                                                                        | 216.14   |
| 203   | 17.73   | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.                                                                                                                                                                                                                                              |          |
| 203.A | 17.73.2 | 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.                                                                                                                                                                                                                                                                                           | 660.60   |
| 204   | 17.74   | Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300 gms.                                                                                                                                                                                                                                                                               | 664.55   |
| 205   | 17.75   | Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes, weighing not less than 60 gms.                                                                                                                                                                                                                                                                                        | 99.89    |
| 206   | 17.76   | Providing and fixing PTMT urinal cock of approved quality and colour.                                                                                                                                                                                                                                                                                                                                                    |          |
| 206.A | 17.76.1 | 15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms                                                                                                                                                                                                                                                                                                           | 163.43   |
| 207   | 17.78   | Providing and fixing white vitreous china extended wall mounting watercloset of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.                                                       | 13976.18 |
| 208   | 18.7    | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. INTERNAL WORK - EXPOSED ON WALL |          |
| 208.A | 18.7.1  | 15 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                            | 267.25   |
| 208.B | 18.7.2  | 20 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                            | 312.15   |
| 208.C | 18.7.3  | 25 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                            | 374.17   |
| 208.D | 18.7.4  | 32 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                            | 483.37   |
| 208.E | 18.7.5  | 40 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                            | 655.00   |
| 208.F | 18.7.6  | 50 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                            | 870.44   |



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| 209   | 18.8    | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. |         |
| 209.A | 18.8.1  | 15 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 463.85  |
| 209.B | 18.8.2  | 20 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 500.93  |
| 209.C | 18.8.3  | 25 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 584.47  |
| 209.D | 18.8.4  | 32 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 688.88  |
| 210   | 18.9    | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. EXTERNAL WORK                                                                                                                                                          |         |
| 210.A | 18.9.2  | 20 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 255.59  |
| 210.B | 18.9.3  | 25 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 331.16  |
| 210.C | 18.9.4  | 32 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 408.69  |
| 210.D | 18.9.5  | 40 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 524.65  |
| 210.E | 18.9.6  | 50 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 740.08  |
| 211   | 18.10   | Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. INTERNAL WORK - EXPOSED ON WALL                                                                                                                                                                                                                                                                                                                                                                       |         |
| 211.A | 18.10.2 | 20 mm dia nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 407.48  |
| 211.B | 18.10.3 | 25 mm dia nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 514.07  |
| 212   | 18.12   | Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| 212.A | 18.12.2 | 20 mm dia nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 343.46  |
| 212.B | 18.12.3 | 25 mm dia nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 435.85  |
| 212.C | 18.12.4 | 32 mm dia nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 503.45  |
| 212.D | 18.12.5 | 40 mm dia nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 574.97  |
| 212.E | 18.12.6 | 50 mm dia nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 710.17  |
| 213   | 18.13   | Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :                                                                                                                                                                                                                                                                                                                                                    |         |
| 213.A | 18.13.1 | 25 to 40 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 849.70  |
| 213.B | 18.13.2 | 50 to 80 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1663.59 |
| 214   | 18.17   | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| 214.A | 18.17.1 | 25 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 579.95  |
| 214.B | 18.17.2 | 32 mm nominal bore.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 642.56  |
| 214.C | 18.17.3 | 40 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 769.76  |
| 214.D | 18.17.4 | 50 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 956.64  |
| 215   | 18.18   | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| 215.A | 18.18.1 | 15 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 379.10  |
| 215.B | 18.18.2 | 20 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 430.96  |
| 215.C | 18.18.3 | 25 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 432.41  |

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| 216     | 18.19     | Providing and fixing gun metal non- return valve of approved quality (screwed end) :                                                                         |         |
| 216.1   | 18.19.1   | 25 mm nominal bore                                                                                                                                           |         |
| 216.1.A | 18.19.1.1 | Horizontal                                                                                                                                                   | 551.07  |
| 216.2   | 18.19.2   | 32 mm nominal bore                                                                                                                                           |         |
| 216.2.A | 18.19.2.1 | Horizontal                                                                                                                                                   | 737.89  |
| 216.3   | 18.19.3   | 40 mm nominal bore                                                                                                                                           |         |
| 216.3.A | 18.19.3.2 | Vertical                                                                                                                                                     | 1057.31 |
| 216.4   | 18.19.4   | 50 mm nominal bore                                                                                                                                           |         |
| 216.4.A | 8.19.4.2  | Vertical                                                                                                                                                     | 1346.59 |
| 216.5   | 18.19.5   | 65 mm nominal bore                                                                                                                                           |         |
| 216.5.A | 18.19.5.2 | Vertical                                                                                                                                                     | 2135.26 |
| 217     | 18.20     | Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :                                                             |         |
| 217.A   | 18.20.1   | 15 mm nominal bore                                                                                                                                           | 306.84  |
| 217.B   | 18.20.2   | 20 mm nominal bore                                                                                                                                           | 354.09  |
| 217.C   | 18.20.3   | 25 mm nominal bore                                                                                                                                           | 453.60  |
| 218     | 18.21     | Providing and fixing uplasticised PVC connection pipe with brass unions :                                                                                    |         |
| 218.1   | 18.21.1   | 30 cm length                                                                                                                                                 |         |
| 218.1.A | 18.21.1.1 | 15 mm nominal bore                                                                                                                                           | 79.20   |
| 218.1.B | 18.21.1.2 | 20 mm nominal bore                                                                                                                                           | 87.17   |
| 219     | 18.22     | Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet                                                                                           |         |
| 219.A   | 18.22.1   | 100 mm diameter                                                                                                                                              | 180.72  |
| 219.B   | 18.22.2   | 150 mm diameter                                                                                                                                              | 207.19  |
| 220     | 18.23     | Laying in position centrifugally cast (spun) iron S&S or flanged pipes (excluding cost of pipe).                                                             | 336.99  |
| 221     | 18.24     | Laying in position S&S or flanged C.I. special such as tees, bends, collars, tapers and caps etc.(excluding cost of specials).                               | 616.71  |
| 222     | 18.25     | Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class):                                               |         |
| 222.A   | 18.25.1   | Up to 300 mm dia                                                                                                                                             | 5919.15 |
| 222.B   | 18.25.2   | Over 300 mm dia                                                                                                                                              | 5919.15 |
| 223     | 18.26     | Providing and laying flanged C.I. standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS : 1538          |         |
| 223.A   | 18.26.1   | Up to 300 mm dia                                                                                                                                             | 8305.25 |
| 224     | 18.30     | Providing flanged joints to double flanged C.I./ D.I. pipes and specials, including testing of joints :                                                      |         |
| 224.A   | 18.30.2   | 100 mm diameter pipe                                                                                                                                         | 309.36  |
| 224.B   | 18.30.5   | 200 mm diameter pipe                                                                                                                                         | 399.41  |
| 224.C   | 18.30.7   | 300 mm diameter pipe                                                                                                                                         | 558.62  |
| 224.D   | 18.30.8   | 350 mm diameter pipe                                                                                                                                         | 710.87  |
| 224.E   | 18.30.9   | 400 mm diameter pipe                                                                                                                                         | 994.04  |
| 224.F   | 18.30.10  | 450 mm diameter pipe                                                                                                                                         | 1216.56 |
| 224.G   | 18.30.11  | 500 mm diameter pipe                                                                                                                                         | 1339.74 |
| 224.H   | 18.30.12  | 600 mm diameter pipe                                                                                                                                         | 1587.88 |
| 225     | 18.31     | Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) : |         |
| 225.1   | 18.31.1   | 100 mm diameter                                                                                                                                              |         |
| 225.1.A | 18.31.1.1 | Class I                                                                                                                                                      | 4464.43 |

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| 225.1.B | 18.31.1.2 | Class II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4645.80  |
| 225.2   | 18.31.2   | 125 mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| 225.2.A | 18.31.2.1 | Class I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4808.83  |
| 225.2.B | 18.31.2.2 | Class II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5537.68  |
| 225.3   | 18.31.3   | 150 mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| 225.3.A | 18.31.3.1 | Class I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6491.42  |
| 225.3.B | 18.31.3.2 | Class II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6813.69  |
| 225.4   | 18.31.4   | 200 mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| 225.4.A | 18.31.4.1 | Class I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12630.25 |
| 225.4.B | 18.31.4.2 | Class II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13625.63 |
| 225.5   | 18.31.5   | 250 mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| 225.5.A | 18.31.5.1 | Class I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 18232.08 |
| 225.5.B | 18.31.5.2 | Class II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 22944.13 |
| 225.6   | 18.31.6   | 300 mm diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| 225.6.A | 18.31.6.1 | Class I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 25213.80 |
| 225.6.B | 18.31.6.2 | Class II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28143.09 |
| 226     | 18.32     | Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 ( 1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size ) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :                                             |          |
| 226.A   | 18.32.1   | With common burnt clay F.P.S.(non modular) bricks of class designation 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1856.70  |
| 227     | 18.33     | Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size ) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :          |          |
| 227.A   | 18.33.1   | With common burnt clay F.P.S.(non modular) bricks of class designation 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10121.57 |
| 228     | 18.34     | Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size ) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design |          |
| 228.A   | 18.34.1   | With common burnt clay F.P.S.(non modular) bricks of class designation 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 17607.91 |
| 229     | 18.38     | Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |
| 229.A   | 18.38.1   | 15 mm diameter pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 18.08    |
| 229.B   | 18.38.2   | 20 mm diameter pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 21.66    |
| 229.C   | 18.38.3   | 25 mm diameter pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 28.18    |
| 229.D   | 18.38.4   | 32 mm diameter pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 33.87    |
| 229.E   | 18.38.5   | 40 mm diameter pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 39.74    |

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| 229.F | 18.38.6 | 50 mm diameter pipe                                                                                                                                                                                                                                                        | 47.52   |
| 230   | 18.39   | Repainting G.I. pipes and fittings with synthetic enamel white paint with one coat of approved quality :                                                                                                                                                                   |         |
| 230.A | 18.39.1 | 15 mm diameter pipe                                                                                                                                                                                                                                                        | 8.85    |
| 230.B | 18.39.2 | 20 mm diameter pipe                                                                                                                                                                                                                                                        | 10.53   |
| 230.C | 18.39.3 | 25 mm diameter pipe                                                                                                                                                                                                                                                        | 13.41   |
| 230.D | 18.39.4 | 32 mm diameter pipe                                                                                                                                                                                                                                                        | 16.07   |
| 230.E | 18.39.5 | 40 mm diameter pipe                                                                                                                                                                                                                                                        | 18.63   |
| 230.F | 18.39.6 | 50 mm diameter pipe                                                                                                                                                                                                                                                        | 22.23   |
| 231   | 18.40   | Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :                                                                                                                                                                   |         |
| 231.A | 18.40.1 | 15 mm diameter pipe                                                                                                                                                                                                                                                        | 11.23   |
| 231.B | 18.40.2 | 20 mm diameter pipe                                                                                                                                                                                                                                                        | 13.47   |
| 231.C | 18.40.3 | 25 mm diameter pipe                                                                                                                                                                                                                                                        | 17.10   |
| 231.D | 18.40.4 | 32 mm diameter pipe                                                                                                                                                                                                                                                        | 20.69   |
| 231.E | 18.40.5 | 40 mm diameter pipe                                                                                                                                                                                                                                                        | 23.53   |
| 231.F | 18.40.6 | 50 mm diameter pipe                                                                                                                                                                                                                                                        | 28.42   |
| 231.G | 18.40.7 | 65 mm diameter pipe                                                                                                                                                                                                                                                        | 35.27   |
| 231.H | 18.40.8 | 80 mm diameter pipe                                                                                                                                                                                                                                                        | 41.00   |
| 232   | 18.46   | Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :                                                                                                                                    |         |
| 232.A | 18.46.2 | 20 mm nominal bore                                                                                                                                                                                                                                                         | 323.15  |
| 232.B | 18.46.3 | 25 mm nominal bore                                                                                                                                                                                                                                                         | 409.30  |
| 232.C | 18.46.4 | 32 mm nominal bore                                                                                                                                                                                                                                                         | 455.70  |
| 232.D | 18.46.5 | 40 mm nominal bore                                                                                                                                                                                                                                                         | 588.24  |
| 232.E | 18.46.6 | 50 mm nominal bore                                                                                                                                                                                                                                                         | 767.62  |
| 232.F | 18.46.7 | 65 mm nominal bore                                                                                                                                                                                                                                                         | 1059.27 |
| 233   | 18.47   | Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :                                      |         |
| 233.A | 18.47.2 | 20 mm nominal bore                                                                                                                                                                                                                                                         | 799.34  |
| 233.B | 18.47.3 | 25 mm nominal bore                                                                                                                                                                                                                                                         | 885.54  |
| 233.C | 18.47.4 | 32 mm nominal bore                                                                                                                                                                                                                                                         | 931.93  |
| 233.D | 18.47.5 | 40 mm nominal bore                                                                                                                                                                                                                                                         | 1064.48 |
| 233.E | 18.47.6 | 50 mm nominal bore                                                                                                                                                                                                                                                         | 1417.08 |
| 233.F | 18.47.7 | 65 mm nominal bore                                                                                                                                                                                                                                                         | 1708.68 |
| 234   | 18.48   | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. |         |
| 234.A | 18.48.A | Circular tank                                                                                                                                                                                                                                                              | 10.25   |
| 235   | 18.49   | Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :                                                                                                                                                                                       |         |
| 235.A | 18.49.1 | 15 mm nominal bore                                                                                                                                                                                                                                                         | 472.24  |
| 236   | 18.50   | Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.                                                                                                                                      |         |
| 236.A | 18.50.1 | 15 mm nominal bore                                                                                                                                                                                                                                                         | 764.73  |
| 237   | 18.51   | Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.                                                                                                                                      |         |

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| 237.A   | 18.51.1   | 15 mm nominal bore                                                                                                                                                                                                         | 744.46   |
| 238     | 18.52     | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.                                                                                                       |          |
| 238.A   | 18.52.1   | 15 mm nominal bore                                                                                                                                                                                                         | 624.72   |
| 239     | 18.53     | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931                                                                                                    |          |
| 239.A   | 18.53.1   | 15mm nominal bore                                                                                                                                                                                                          | 535.13   |
| 240     | 18.54     | Providing and fixing PTMT bib cock of approved quality and colour.                                                                                                                                                         |          |
| 240.A   | 18.54.1   | 15mm nominal bore, 86 mm long, weighing not less than 88 gms                                                                                                                                                               | 117.03   |
| 240.B   | 18.54.2   | 15 mm nominal bore, 122mm long, weighing not less than 99 gms                                                                                                                                                              | 150.21   |
| 240.C   | 18.54.3   | 15 mm nominal bore, 165 mm long, weighing not less than 110 gms                                                                                                                                                            | 164.79   |
| 241     | 18.55     | Providing and fixing PTMT stop cock of approved quality and colour.                                                                                                                                                        |          |
| 241.A   | 18.55.1   | 15 mm nominal bore, 86 mm long, weighing not less than 88 gms                                                                                                                                                              | 110.42   |
| 241.B   | 18.55.3   | Concealed stop cock, 15 mm nominal bore, 108 mm long, weighing not less than 108 gms                                                                                                                                       | 203.23   |
| 242     | 18.56     | Providing and fixing PTMT pillar cock of approved quality and colour                                                                                                                                                       |          |
| 242.A   | 18.56.1   | 15 mm nominal bore, 107 mm long, weighing not less than 110 gms                                                                                                                                                            | 194.24   |
| 242.B   | 18.56.2   | 15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms                                                                                                                                                  | 208.81   |
| 243     | 18.58     | Providing and fixing PTMT grating of approved quality and colour.                                                                                                                                                          |          |
| 243.1   | 18.58.1   | Circular type                                                                                                                                                                                                              |          |
| 243.1.A | 18.58.1.1 | 100 mm nominal dia                                                                                                                                                                                                         | 35.03    |
| 244     | 18.59     | Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) :                                |          |
| 244.A   | 18.59.1   | 50 mm dia                                                                                                                                                                                                                  | 5356.72  |
| 244.B   | 18.59.2   | 80 mm dia                                                                                                                                                                                                                  | 6516.62  |
| 244.C   | 18.59.3   | 100 mm dia                                                                                                                                                                                                                 | 8286.48  |
| 245     | 18.60     | Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately) : |          |
| 245.A   | 18.60.1   | 80 mm dia nominal bore                                                                                                                                                                                                     | 3380.24  |
| 245.B   | 18.60.2   | 100 mm dia nominal bore                                                                                                                                                                                                    | 5095.40  |
| 245.C   | 18.60.3   | 150 mm dia nominal bore                                                                                                                                                                                                    | 7835.31  |
| 245.D   | 18.60.4   | 200 mm dia nominal bore                                                                                                                                                                                                    | 8426.53  |
| 246     | 18.61     | Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS : 2373 :                                                                          |          |
| 246.A   | 18.61.1   | 80 mm dia                                                                                                                                                                                                                  | 4308.17  |
| 246.B   | 18.61.2   | 100 mm dia                                                                                                                                                                                                                 | 6951.22  |
| 246.C   | 18.61.3   | 150 mm dia                                                                                                                                                                                                                 | 8789.74  |
| 246.D   | 18.61.4   | 200 mm dia                                                                                                                                                                                                                 | 12045.45 |
| 247     | 18.62     | Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.                                                                        |          |
| 247.A   | 18.62.1   | 15 mm nominal bore, 105 mm long, weighing not less than 138 gms                                                                                                                                                            | 169.68   |
| 247.B   | 18.62.2   | 20 mm nominal bore, 120 mm long, weighing not less than 198 gms                                                                                                                                                            | 240.03   |
| 247.C   | 18.62.3   | 25 mm nominal bore, 152 mm long, weighing not less than 440 gms                                                                                                                                                            | 488.08   |
| 247.D   | 18.62.4   | 40 mm nominal bore, 206 mm long, weighing not less than 690 gms                                                                                                                                                            | 686.93   |
| 247.E   | 18.62.5   | 50 mm nominal bore, 242 mm long, weighing not less than 1240 gms                                                                                                                                                           | 1282.11  |

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| 248     | 18.63    | Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms                                                                                                                                                                                                                  | 146.20   |
| 249     | 18.65    | Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.                                                                                                                                        | 103.85   |
| 250     | 18.66    | Providing and laying S&S C.I. Standard specials such as tees, bends, collars tapers and caps etc, suitable for flanged jointing as per IS : 1538                                                                                                                                                             |          |
| 250.A   | 18.66.1  | Up to 300 mm dia                                                                                                                                                                                                                                                                                             | 8040.11  |
| 251     | 18.67    | Providing and laying S&S C.I. Standard specials suitable for mechanical jointing as per IS : 13382 :                                                                                                                                                                                                         |          |
| 251.A   | 18.67.1  | Up to 300 mm dia                                                                                                                                                                                                                                                                                             | 12825.59 |
| 252     | 18.71    | Providing and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536)                                                                                                                                                                                                   |          |
| 252.A   | 18.71.3  | 200 mm dia C.I. Double Flanged Pipe                                                                                                                                                                                                                                                                          | 4655.13  |
| 252.B   | 18.71.5  | 300 mm dia C.I. Double Flanged Pipe                                                                                                                                                                                                                                                                          | 7542.25  |
| 253     | 18.74    | Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.                                                                                                                                                                                    |          |
| 253.A   | 18.74.1  | 15 mm nominal bore with 30cm length                                                                                                                                                                                                                                                                          | 89.78    |
| 253.B   | 18.74.2  | 15 mm nominal bore with 45 cm length                                                                                                                                                                                                                                                                         | 113.59   |
| 254     | 18.75    | Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.                                                                                                                                                                                                     |          |
| 254.A   | 18.75.1  | 15 mm nominal bore, weighing not less than 32 gms                                                                                                                                                                                                                                                            | 49.95    |
| 254.B   | 18.75.2  | 20 mm nominal bore, weighing not less than 40 gms                                                                                                                                                                                                                                                            | 87.08    |
| 254.C   | 18.75.3  | 25 mm nominal bore, weighing not less than 62 gms                                                                                                                                                                                                                                                            | 105.62   |
| 255     | 18.77    | Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof. | 421.17   |
| 256     | 18.82    | Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks, including stacking of pipes at site lead up to 50 metre                                                                             |          |
| 256.A   | 18.82.2  | 100 mm diameter C.I. pipe                                                                                                                                                                                                                                                                                    | 309.82   |
| 256.B   | 18.82.5  | 200 mm diameter C.I. pipe                                                                                                                                                                                                                                                                                    | 383.43   |
| 256.C   | 18.82.7  | 300 mm diameter C.I. pipe                                                                                                                                                                                                                                                                                    | 463.85   |
| 257     | 18.84    | Providing & fixing chrome plated brass battery based infrared sensor operated pillar cock, having foam flow technology.                                                                                                                                                                                      |          |
| 257.A   | 18.84.1  | 15 mm nominal bore                                                                                                                                                                                                                                                                                           | 8203.27  |
| 258     | 19.4     | Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:              |          |
| 258.1   | 19.4.1   | 100x100 mm size P type                                                                                                                                                                                                                                                                                       |          |
| 258.1.A | 19.4.1.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5                                                                                                                                                                                                                                  | 2522.98  |
| 259     | 19.5     | Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps :                                                                                                       |          |
| 259.A   | 19.5.2   | 150 mm diameter                                                                                                                                                                                                                                                                                              | 91.73    |
| 259.B   | 19.5.4   | 250 mm diameter                                                                                                                                                                                                                                                                                              | 103.43   |

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| 260     | 19.6      | Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |
| 260.A   | 19.6.3    | 250 mm dia. R.C.C. pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 838.44   |
| 260.B   | 19.6.4    | 300 mm dia. R.C.C. pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 926.49   |
| 260.C   | 19.6.5    | 450 mm dia. R.C.C. pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1510.40  |
| 260.D   | 19.6.7    | 600 mm dia. R.C.C. pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2090.40  |
| 261     | 19.7      | Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :                                                                                                                                                                 |          |
| 261.1   | 19.7.1    | Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
| 261.1.A | 19.7.1.1  | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11899.58 |
| 262     | 19.8      | Extra for depth for manholes :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
| 262.1   | 19.8.1    | Size 90x80 cm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| 262.1.A | 19.8.1.1  | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8223.48  |
| 263     | 19.19     | Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
| 263.1   | 19.19.1   | L D- 2.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |
| 263.1.A | 19.19.1.1 | Rectangular shape 600x450 mm internal dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1339.60  |
| 264     | 19.23     | Extra for depths beyond 60 cm of sand cast iron drop connection complete:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |
| 264.A   | 19.23.1   | For 100 mm dia sand cast iron drop connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3019.45  |
| 264.B   | 19.23.2   | For 150 mm dia sand cast iron drop connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3845.44  |
| 265     | 19.24     | Dismantling of manhole including R.C.C. top slab, C.I. cover with frame, including stacking of useful materials near the site and disposal of unserviceable materials, all as per direction of Engineer -in-Charge :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| 265.A   | 19.24.1   | Rectangular manhole 90x80 cm and 45 cm deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2367.55  |
| 266     | 19.26     | Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| 266.A   | 19.26.1   | Rectangular manhole 90x80 cm with rectangular cover 600 x 450 mm of grade LD - 2.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2446.44  |
| 266.B   | 19.26.2   | Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3883.78  |
| 267     | 21.1      | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : |          |

|         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
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| 267.1   | 21.1.1   | For fixed portion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |
| 267.1.A | 21.1.1.1 | Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 461.29  |
| 267.1.B | 21.1.1.2 | Powder coated aluminium (minimum thickness of powder coating 50 micron)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 494.69  |
| 267.2   | 21.1.2   | For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)                                                                                                                                                                                                                                                                                                                                                                   |         |
| 267.2.A | 21.1.2.1 | Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 557.78  |
| 267.2.B | 21.1.2.2 | Powder coated aluminium (minimum thickness of powder coating 50 micron)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 591.18  |
| 268     | 21.2     | Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge.                                                                                                                                                                                                                                                             |         |
| 268.A   | 21.2.1   | Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1061.60 |
| 268.B   | 21.2.2   | Pre-laminated particle board with decorative lamination on both sides                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1039.33 |
| 269     | 21.3     | Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):                                                                                                                                                                                                                                                                                                                                     |         |
| 269.A   | 21.3.1   | With float glass panes of 4.0 mm thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1096.54 |
| 269.B   | 21.3.2   | With float glass panes of 5.50 mm thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1402.59 |
| 270     | 21.4     | Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.                                                                                                 |         |
| 270.A   | 21.4.1   | With stainless steel cover plate minimum 1.25 mm thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2631.26 |
| 271     | 21.13    | Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 492.78  |
| 272     | 21.17    | Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment). | 594.81  |
| 273     | 21.18    | Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc. to be paid separately).                                                                                                                                                                                                                  | 4962.67 |



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| 274   | 22.5    | Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 574.97  |
| 275   | 22.7    | Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer- in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer- in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : |         |
| 275.A | 22.7.1  | With average thickness of 120 mm and minimum thickness at khurra as 65 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1569.71 |
| 276   | 26.28   | Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion shouldered of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| 276.A | 26.28.3 | 25 mm average thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 118.11  |
| 277   | 2.29    | Ploughing the existing ground to a depth of 15 cm to 25 cm and watering the same.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 32.24   |
| 278   | 287     | Attending general carpentry works/faulty works (Minor) to all doors, windows & ventilators etc complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 96.80   |
| 279   | 288     | Attending general Masonry and other works/faulty works (Minor) to all locations etc complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 96.80   |
| 280   | 289     | Attending general Plumbing and other works/faulty works (Minor) to all locations etc complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 96.80   |
| 281   | 290     | Attending line burst repair work in water pumping lines (Open and Submerged) including supply of the respective burst line etc, Rate including cost of all materials & labour charges, refilling of the earth, etc complete.(Earth work will be paid extra)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| 281.A | A       | 1. ¾" PVC 15 kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 211.75  |
| 281.B | B       | 2. 1" PVC 15 Kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 229.90  |

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| 281.C | C   | 3. 1 ¼" PVC 6 Kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                                | 251.68  |
| 281.D | D   | 4. 1 ½" PVC 6 Kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                                | 290.40  |
| 281.E | E   | 5. 2" PVC 6 Kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                                  | 301.29  |
| 281.F | F   | 6. 2 ½" PVC 6 Kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                                | 358.16  |
| 281.G | G   | 7. 3" PVC 6 Kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                                  | 517.88  |
| 281.H | H   | 8. 4" PVC 6 Kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                                  | 779.24  |
| 281.I | I   | 9. 6" PVC 6 Kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                                  | 1210.00 |
| 281.J | J   | 10. 8" PVC 6 Kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                                 | 1573.00 |
| 282   | 291 | Attending line burst repair work in water pumping lines (Open and Submerged) including supply of the respective burst line etc, Rate including cost of all materials & labour charges, refilling of the earth, etc complete.(Earth work will be paid extra)                                                                                                                                                                                                           |         |
| 282.A | A   | 1. ¾" GI IS Specs                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 454.96  |
| 282.B | B   | 2. 1" GI IS Specs                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 560.23  |
| 282.C | C   | 3. 1 ¼" GI IS Specs                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 665.50  |
| 282.D | D   | 4. 1 ½" GI IS Specs                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 761.09  |
| 282.E | E   | 5. 2" GI IS Specs                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 964.37  |
| 282.F | F   | 6. 2 ½" GI IS Specs                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1210.00 |
| 282.G | G   | 7. 3" GI IS Specs                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1573.00 |
| 282.H | H   | 8. 4" GI IS Specs                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1905.75 |
| 283   | 292 | Removing the burst C.I. pipes from the pipe line and removal of slushy soil and baling out water and replacing the pipelinewith sound pipe including jointing and cost of refilling the pipeline with water for retesting the pipe line etc complete. (excluding cost of sound pipe and jointing materials and earth work) and as directed by the Officers. (as per twad rates) For depth upto 2m                                                                     |         |
| 283.A | A   | 1. 80mm dia C.I. Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1030.92 |
| 283.B | B   | 2. 150mm dia C.I. Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2128.39 |
| 283.C | C   | 3. 200mm dia C.I. Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2969.34 |
| 283.D | D   | 4. 300mm dia C.I. Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5194.53 |
| 284   | 293 | Attending repair/burst work including supply of respective following pipesetc. Rate including cost of all materials, labour and other incidental charges etc complete.                                                                                                                                                                                                                                                                                                |         |
| 284.A | A   | 1. 3/4" PVC 15 Kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                               | 278.30  |
| 284.B | B   | 2. 1" PVC 15 Kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                                 | 313.09  |
| 284.C | C   | 3. 1 1/2" PVC 15 Kg Finolex/ astral/ kundan or equivalent                                                                                                                                                                                                                                                                                                                                                                                                             | 347.88  |
| 285   | 294 | Providing and fixing mosquito net shutter with 20 mm width powder coated aluminium frame to the fixed on the wood / ms frame / Aluminum frame on the opening as per site condition. The 20mm width powder coated aluminum frame shall be all round the shutter,three vertical and one horizontal.the mesh shutter made of staines steel materials and fixed to the frame etc., complete,the rate is including cost of all materials and labour charge etc., complete. | 1586.31 |
| 286   | 295 | Removing and reflexing Aluminium partition as per site condition including fixture, rubber beeding and resizing the novopan& glass shutters if required etc., complete as per the direction of Engineer in charge.                                                                                                                                                                                                                                                    | 786.50  |
| 287   | 296 | Providing and fixing of single side polished cuddapah slabs for kitchen platforms over 20mm thick base in CM 1:4 (1 cement: 4 sand) with joints treated walls cement mortar mixing with pigment as per the direction of Engineer in charge For 25mm to 40mm thick                                                                                                                                                                                                     | 810.41  |
| 288   | 297 | Providing & Fixing double side cuddapah slab to shelves etc., complete 25mm thick                                                                                                                                                                                                                                                                                                                                                                                     | 911.72  |

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| 289 | 298  | PTMT Health faucet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 519.36  |
| 290 | 299  | PVC Flush tank inner set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 472.90  |
| 291 | 300  | 4" PVC Shower rose with Arm for Kitchen sink                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 318.08  |
| 292 | 301  | 1 1/4" SS Waste coupling for Wash basin/Urinal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 216.87  |
| 293 | 302  | 4" SS Sink waste coupling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 335.96  |
| 294 | 303  | 15mm Two way PTMT Tap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 472.90  |
| 295 | 304  | 15mm Three Way CP Lab tap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3902.79 |
| 296 | 305  | PVC Water tank cover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 550.32  |
| 297 | 306  | Supply and fixing of 18mm thick Green plywood (water proof)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2723.71 |
| 298 | 307  | Supply and fixing of 1mm SGL Mica sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1769.02 |
| 299 | 308  | Providing and fixing of 50mm thick foam for inside the panel area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1571.79 |
| 300 | 309  | Providing and fixing of decorative 3 M frosted sticker on toughened glass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2021.05 |
| 301 | 310  | Fixing of precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer- in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. Precoated galvanised iron profile sheets will be supplied by NITT from EMD Stores | 277.21  |
| 302 | 311  | Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. (Structural steel will be supplied by NITT from EMD Stores)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 59.77   |
| 303 | 312  | Providing and Fixing Zebra brand venetion blinds to window thickness is 0.42mm etc. Rate including cost of all materials and labour charges etc complete. A) Specification of Fabric: Zebra blinds Translucent: Composition: 100% Polyester , Visibility: Translucent, Weight Approx: 108 g/sq.mtr., Thickness:0.42mm, Window size: 2.20Mts width x 2.40 mts height (Maximum), Sheer & Vale box: 75 x 50 mm, Hanging properties: Excellent, Tearing strength: Very high, Cleaning: Conditionally cleanable with damp cloth.                                                                                                                                                                                                                                                                                                                                                                                              | 2964.50 |
| 304 | 50.3 | Removing and refixing door shutters upto 0.90m x 2.10m size including planing the top and bottom face upto 10mm including fixing with stainless steel screws etc complete as directed by the Engineer-in charge. (cost of new hinges shall be paid seperately wherever required)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 283.14  |
| 305 | 50.6 | Providing and fixing of 40mm dia Unplasticised PVC pipes including all fittings i/c fixing the pipe with clamps at 1.00m spacing.This includes jointing of pipes & fittings with one step UPVC solvent cement and testing of joints complete as per the direction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 229.90  |
| 306 | 50.7 | Providing and fixing of 75mm dia (Finolex or Avonplast-6kg/cm2) unplasticised Rigid PVC soil pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) Single socketed pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 239.58  |
| 307 | 50.8 | Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 75 mm dia PVC Door TEE (Finolex or equivalent make)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 217.80  |

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| 308   | 50.9    | Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 75 mm dia PVC plain elbow (Finolex or equivalent make)                                                         | 122.21 |
| 309   | 50.10   | Providing and fixing of 110 mm dia (Finolex or Avonplast-6kg/cm2) unplasticised Rigid PVC soil pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) Single socketed pipes                                                                                                        | 337.59 |
| 310   | 50.11   | Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 110 mm dia PVC plain elbow (Finolex or equivalent make)                                                        | 177.87 |
| 311   | 50.12   | Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 75 mm dia PVC Door elbow (Finolex or equivalent make)                                                          | 205.70 |
| 312   | 50.13   | Providing and fixing of 32mm dia Unplasticised PVC pipes (Avonplast make) including all fittings i/c fixing the pipe with clamps at 1.00m spacing.This includes jointing of pipes & fittings with one step UPVC solvent cement and testing of joints complete as per the direction of Engineer-in-charge.                                                            | 220.22 |
| 313   | 50.14   | Repolishing of old Mosaic floors,Dado,skirting etc., in grey and all colours and finishing the surfaces smooth including filling the joints and voids by matching pigments, chips etc complete all as per standard specifications. Rate including cost of materials, hire and running charges of materials,labours etc compete as directed by the Engineer incharge. | 246.84 |
| 314   | 50.35   | Supply of unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC confirming to IS : 13592 Type A-6 kg/cm2, including jointing with seal ring confirming to IS : 5382, leaving 10mm gap for thermal expansion. Saddle clamp- (75mm to 25mm)                                                                                                       | 185.13 |
| 315   | 50.36   | Providing and fixing ball valve (Zoloto or equivalent) confirming to IS : 1703 of approved quality (screwed end): 25mm dia nominal bore                                                                                                                                                                                                                              | 907.50 |
| 316   | 50.47   | Providing and fixing PVC cowl to the PVC pipes etc complete as per the direction of Engineer-in-charge.                                                                                                                                                                                                                                                              | 0.00   |
| 316.A | 50.47.1 | 75 mm Cowl                                                                                                                                                                                                                                                                                                                                                           | 266.20 |
| 316.B | 50.47.2 | 110 mm Cowl                                                                                                                                                                                                                                                                                                                                                          | 332.75 |
| 317   | 50.49   | Cutting holes upto 30x30 cm in walls including making good the same : with F.P.S. bricks.                                                                                                                                                                                                                                                                            | 266.20 |
| 318   | 50.53   | Repairing the existing MS window shutter including removing the shutter,bending,welding,hinges repair and refixing the same in good condition etc as per the direction of Engineer-in-charge.                                                                                                                                                                        | 459.80 |
| 319   | 50.63   | Providing and fixing powder coated aluminum curtain rod with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangements of approved quality as directed by Engineer-in-charge.                                                                                                                                                         | 348.48 |
| 320   | 50.97   | Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 75 mm dia PVC single door 'Y' (Finolex or equivalent make)                                                     | 159.72 |
| 321   | 50.98   | Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm                                                                                                                                               | 212.96 |

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|     |        | gap for thermal expansion. (i) 75 mm dia PVC double door 'Y' (Finolex or equivalent make)                                                                                                                                                                                                                           |         |
| 322 | 50.99  | Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 110 mm dia PVC single door 'Y' (Finolex or equivalent make)   | 319.44  |
| 323 | 50.100 | Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 110 mm dia PVC double door 'Y' (Finolex or equivalent make)   | 266.20  |
| 324 | 50.101 | Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 90 mm to 75mm dia PVC reducer (Finolex or equivalent make)    | 95.59   |
| 325 | 50.102 | Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 125 mm to 100 mm dia PVC reducer (Finolex or equivalent make) | 118.58  |
| 326 | 50.103 | Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC pipes conforming to IS :13592 Type A including jointing with seal ring conforming to S :5382 leaving 10mm gap for thermal expansion. (i) 110 mm door 'L' (Finolex or equivalent make)                  | 169.40  |
| 327 | 50.104 | Providing and fixing of 18mm thick non decorative plywood (water proof) resting on the walls etc complete.                                                                                                                                                                                                          | 2069.10 |
| 328 | 50.106 | Supply of unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC confirming to IS : 13592 Type A-6 kg/cm <sup>2</sup> , including jointing with seal ring confirming to IS : 5382, leaving 10mm gap for thermal expansion. Saddle clamp- (40mm to 32mm)                                         | 133.10  |
| 329 | 50.118 | Providing and fixing of 40mm OD PVC pipe (15kg/cm <sup>2</sup> ) with fittings and clamps, i/c cutting and making good the walls etc. External work : 40mm OD PVC Pipes (15kg/cm <sup>2</sup> )                                                                                                                     | 180.90  |
| 330 | 50.121 | Providing and fixing of 63mm OD PVC pipe (15kg/cm <sup>2</sup> ) with fittings and clamps, i/c cutting and making good the walls etc. External work : 63mm OD PVC Pipes (15kg/cm <sup>2</sup> )                                                                                                                     | 245.63  |
| 331 | 50.122 | Providing & Fixing of Cuddapah slab sink of size 600mm x 450mm etc complete.                                                                                                                                                                                                                                        | 1331.00 |
| 332 | 50.124 | Providing and fixing weldmesh shutter with MS angle frame of size 25mm x 25mm x 6mm and MS weld mesh size 2" x 1" with necessary bolts and nuts etc complete.                                                                                                                                                       | 1068.43 |
| 333 | 50.127 | Providing and laying 18mm thick anti-skid factory made button type coloured cement concrete tiles UNICON/EUROCON/DAZZLE/ULTRA or equivalent flooring jointed with cement slurry mixed with pigments to match the shades of the tiles over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand)          | 1206.37 |
| 334 | 50.129 | Providing and fixing MS Heel to existing window including removal of old damaged existing heel with necessary grinding & welding as per the direction of Engineer-in-charge.                                                                                                                                        | 242.00  |
| 335 | 50.130 | Providing and fixing MS handle to existing window with necessary grinding & welding as per the direction of Engineer-in-charge.                                                                                                                                                                                     | 229.90  |
| 336 | 50.131 | Providing and fixing MS Stay rod to existing window with necessary grinding & welding as per the direction of Engineer-in-charge.                                                                                                                                                                                   | 254.10  |

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| 337 | 50.132 | Removing & Repairing the existing MS window shutter including necessary grinding & welding etc and refixing the shutter with proper position as per the direction of Engineer-in-charge.                                                                                                                                                                                                  | 363.00  |
| 338 | 50.146 | Providing & Fixing ornamental 3 way bib cock etc complete.                                                                                                                                                                                                                                                                                                                                | 2783.00 |
| 339 | 50.162 | Suoolying and fixing sun control film for glazed windows,door,Aluminum partition & ventilator shutter including the cost of all materials and labour charges etc.                                                                                                                                                                                                                         | 726.00  |
| 340 | 50.178 | Dismantling the existing chainlink fencing and disposal of 2 km radius around as per the direction of Engineer-in-charge including lead charges etc complete.                                                                                                                                                                                                                             | 20.17   |
| 341 | 50.185 | Providing & fixing 4" Hanjee hook etc complete.                                                                                                                                                                                                                                                                                                                                           | 36.30   |
| 342 | 50.186 | Repairing the existing windows for easy operation i.e. opening & closing etc. rate oncluding cost of labour, scaffolding charges & plaining etc complete.                                                                                                                                                                                                                                 | 114.95  |
| 343 | 50.187 | Providing & fixing circular PVC floor trap to pvc pipe etc complete.                                                                                                                                                                                                                                                                                                                      | 423.50  |
| 344 | 50.193 | Making the opening on Randaon rubble masonry wall by core cutter for laying pipe line etc as per the direction of Engineer-in-charge.                                                                                                                                                                                                                                                     | 484.00  |
| 345 | 50.194 | Dismantling the exisiting water closet without damaging the existing sewer line etc complete.                                                                                                                                                                                                                                                                                             | 242.00  |
| 346 | 50.195 | Providing & Fixing PTMT shower rose etc complete.                                                                                                                                                                                                                                                                                                                                         | 347.27  |
| 347 | 50.196 | Providing and fixing of 12" Dia PVC pipe ( 6kg/cm2) etc. Rate including the cost of all materials and labour charges etc.complete.(305 mm)                                                                                                                                                                                                                                                | 3793.35 |
| 348 | 50.197 | Providing and fixing of 9" Dia PVC pipe ( 6kg/cm2) etc. Rate including the cost of all materials and labour charges etc.complete.(225 mm)                                                                                                                                                                                                                                                 | 2889.48 |
| 349 | 50.210 | Providing and fixing brass door stopper etc complete                                                                                                                                                                                                                                                                                                                                      | 423.50  |
| 350 | 50.212 | Providing & Fixing CP brass health facuet with cp brass two way tap etc complete.                                                                                                                                                                                                                                                                                                         | 1936.00 |
| 351 | 50.213 | Providing & fixing PVC sheet to existing door top surface etc complete.                                                                                                                                                                                                                                                                                                                   | 544.50  |
| 352 | 50.217 | Providing and fixing 25 mm dia UPVC half turn value to the pipe line etc complete.                                                                                                                                                                                                                                                                                                        | 242.00  |
| 353 | 50.238 | Providing & Fixing Granite sink of size 600mmx600mm with rest of 50x506mm MS angle etc complete.                                                                                                                                                                                                                                                                                          | 7865.00 |
| 354 | 50.257 | Providing and fixing of 12" Dia PVC pipe ( 4kg/cm2)etc. Rate including the cost of all materials and labour charges etc.complete.(300 mm)                                                                                                                                                                                                                                                 | 2541.00 |
| 355 | 50.268 | Providing and fixing oval type wash basin of size 550mm etc complete                                                                                                                                                                                                                                                                                                                      | 3569.50 |
| 356 | 50.274 | Drilling of Core cutting of size 2" dia in Reinforced cement concrete wall and brick work wall up to a distance of 150mm and 230mm respectively etc complete as per the direction of engineer-in-charge.                                                                                                                                                                                  | 544.50  |
| 357 | 50.275 | Drilling of Core cutting of size 2" dia in Reinforced cement concrete wall up to a distance of 375mm etc complete as per the direction of engineer-in-charge.                                                                                                                                                                                                                             | 665.50  |
| 358 | 129    | Hire charges for JCB including diesel driver beta, etc., Complete as per the direction of Engineer in-charge.                                                                                                                                                                                                                                                                             | 1628.00 |
| 359 | 210    | Providing hoisting and fixing upto floor five level precast reinforced cement concrete elements like slabs etc of 25 to 150 mm thick in required sizes with mix 1:2 :4 using 10 to 12 mm size hard broken granite stone jelly for cupboards shelves etc including setting in cement mortar 1:3 cost of centring surfaces but excluding the cost of reinforcement and fabrication charges. | 9372.32 |

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| 360   | 522  | Welding by gas plant or electric plant including transportation of plant to site of work cost of consumables labour charges etc complete.                                                                                                                                                                                                                                                                    | 3.92    |
| 361   | 537  | Providing and fixing oxidised M. Shandlse with necessary screws etc. complete.                                                                                                                                                                                                                                                                                                                               |         |
| 361.A | A    | 100 mm size                                                                                                                                                                                                                                                                                                                                                                                                  | 33.23   |
| 361.B | B    | 125 mm size                                                                                                                                                                                                                                                                                                                                                                                                  | 38.41   |
| 362   | 1001 | Dismantling / removing / demolishing as the case may be of the following by manually / mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres All as per instructions of Engineer-in-charge. |         |
| 362.A | A14  | IWC with 'P' trap & foot rests                                                                                                                                                                                                                                                                                                                                                                               | 355.50  |
| 362.B | A15  | EWC (excluding flushing cistern) / Urinal (earthenware) of any size including foot rests / Wash basin connected fittings / RCC precast sink or other ready made sinks with connected fittings / Nahani trap.                                                                                                                                                                                                 | 213.27  |
| 362.C | A16  | Flushing cistern of any size                                                                                                                                                                                                                                                                                                                                                                                 | 403.23  |
| 362.D | A22  | A.C sheets from roofs and side cladding including ridges , valleys , gutters etc.                                                                                                                                                                                                                                                                                                                            | 33.89   |
| 363   | 1104 | Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls)                                                                                                                                    |         |
| 363.A | A    | PVC Pipe 18/20 mm OD (10 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                           | 93.09   |
| 363.B | B    | PVC Pipe 25 mm OD (10 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                              | 118.47  |
| 363.C | C    | PVC Pipe 32 mm OD (10 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                              | 142.23  |
| 363.D | D    | PVC Pipe 40 mm OD ( 6 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                              | 177.08  |
| 363.E | E    | PVC Pipe 50 mm OD ( 6 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                              | 232.06  |
| 364   | 1105 | Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.                                                                                                                                                         |         |
| 364.A | A    | PVC Pipe 18/20 mm OD (10 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                           | 34.56   |
| 364.B | B    | PVC Pipe 25 mm OD (10 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                              | 47.88   |
| 364.C | C    | PVC Pipe 32 mm OD (10 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                              | 68.45   |
| 364.D | D    | PVC Pipe 40 mm OD (6 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                               | 75.63   |
| 364.E | E    | PVC Pipe 50 mm OD (6 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                               | 107.08  |
| 364.F | F    | PVC Pipe 63 mm OD (6 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                               | 160.58  |
| 364.G | G    | PVC Pipe 75 mm OD (6 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                               | 223.04  |
| 364.H | H    | PVC Pipe 90 mm OD (6 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                               | 312.95  |
| 364.I | I    | PVC Pipe 110 mm OD (6 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                              | 436.08  |
| 364.J | J    | PVC Pipe 140 mm OD (6 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                              | 687.16  |
| 364.K | K    | PVC Pipe 160 mm OD (6 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                              | 880.16  |
| 364.L | L    | PVC Pipe 180 mm OD (6 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                              | 1146.04 |
| 364.M | M    | PVC Pipe 200 mm OD (6 kg/Sq.cm)                                                                                                                                                                                                                                                                                                                                                                              | 1394.01 |
| 365   | 1106 | Providing and fixing PVC pipes of 4 K.G / Sqcm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc.                                                                                                                                            |         |
| 365.A | A    | PVC Pipe 75 mm OD                                                                                                                                                                                                                                                                                                                                                                                            | 189.51  |
| 365.B | B    | PVC Pipe 110 mm OD                                                                                                                                                                                                                                                                                                                                                                                           | 333.74  |
| 365.C | C    | PVC Pipe 160 mm OD                                                                                                                                                                                                                                                                                                                                                                                           | 539.98  |

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| 366   | 1107 | Providing and fixing PVC moulded fittings / accessories on walls for rain waterpipes conforming to IS 13592 Type A including joining with seal rings conforming IS 5382 and proper adhesive as suggested by manufacturers etc. Complete. |         |
| 366.A | A    | 75 x 75 x 75 mm single tee with door.                                                                                                                                                                                                    | 199.06  |
| 366.B | B    | 110 x 110 x 110 mm single tee with door.                                                                                                                                                                                                 | 292.89  |
| 366.C | C    | 160 x 160 x 160 mm single tee with door.                                                                                                                                                                                                 | 496.02  |
| 366.D | D    | 75 x 75 x 75 mm single tee without door.                                                                                                                                                                                                 | 176.27  |
| 366.E | E    | 110 x 110 x 110 mm single tee without door.                                                                                                                                                                                              | 258.70  |
| 366.F | F    | 160 x 160 x 160 mm single tee without door. EACH                                                                                                                                                                                         | 427.50  |
| 366.G | G    | 75 mm shoe                                                                                                                                                                                                                               | 101.53  |
| 366.H | H    | 110 mm shoe                                                                                                                                                                                                                              | 150.52  |
| 366.I | I    | 160 mm shoe                                                                                                                                                                                                                              | 258.85  |
| 366.J | J    | 75 mm bend                                                                                                                                                                                                                               | 121.21  |
| 366.K | K    | 110 mm bend                                                                                                                                                                                                                              | 222.37  |
| 366.L | L    | 160 mm bend                                                                                                                                                                                                                              | 283.42  |
| 367   | 1108 | Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked)                                                                                                    |         |
| 367.A | A    | 15 to 25 mm nominal bore                                                                                                                                                                                                                 | 624.12  |
| 367.B | B    | 32 mm nominal bore                                                                                                                                                                                                                       | 807.12  |
| 367.C | C    | 40 mm nominal bore                                                                                                                                                                                                                       | 1054.94 |
| 367.D | D    | 50 mm nominal bore                                                                                                                                                                                                                       | 1424.80 |
| 367.E | E    | 80 mm nominal bore                                                                                                                                                                                                                       | 4040.77 |
| 367.F | F    | 100 mm nominal bore                                                                                                                                                                                                                      | 7358.56 |
| 368   | 1109 | Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked)                                                                                                                             |         |
| 368.A | A    | 15 mm nominal bore.                                                                                                                                                                                                                      | 307.17  |
| 368.B | B    | 20 mm nominal bore.                                                                                                                                                                                                                      | 392.57  |
| 368.C | C    | 25 mm nominal bore.                                                                                                                                                                                                                      | 506.31  |
| 369   | 1110 | Providing and fixing in position of following of approved brand (ISI marked)                                                                                                                                                             |         |
| 369.A | A    | 15 mm nominal bore C.P brass long nose bibcock                                                                                                                                                                                           | 1108.08 |
| 369.B | B    | 15mm nominal C.P brass stop cock (concealed)                                                                                                                                                                                             | 867.21  |
| 369.C | C    | 15 mm nominal C.P brass long body bibcock                                                                                                                                                                                                | 854.11  |
| 370   | 1111 | Providing and fixing in position 15 mm nominal bore C.P brass angle valve for basin mixer and geyser points of approved brand (ISI marked)                                                                                               | 710.18  |
| 371   | 1112 | Providing and fixing in position 100 mm dia C.P brass shower rose (tilting type) of approved brand with 15 or 20 mm dia inlet.                                                                                                           | 100.12  |
| 372   | 1119 | Providing and Fixing in position of ready made sink including PVC flexible waste pipe of 32mm dia with necessary C.P waste coupling etc. complete                                                                                        |         |
| 372.A | B    | Cudappa sink of size 600x600x200 or therabouts (outer dimensions) - 12mm thick                                                                                                                                                           | 1379.58 |
| 373   | 1121 | Providing & Fixing in position of 100 x 75 mm Nahani trap with PVC grating, all as per standard specifications                                                                                                                           | 270.40  |



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| 374 | 1539 | Attending to leak at roof slab and wall joint. The scope of work includes clearing the tiles terrace surfaces to be free of dust, loose particles, algae growth and atmospheric deposits, filling small blow holes if any with CERAFIL 45/TEC TILE 12/Sika Grout/NACC Tile Grout/Dr.Fixit Crack-x and providing primer and top coat of CERAFLEX/TEC WAVE 3000/Sika raingard/NACC High Flex single component/Dr.Fixit new coat highly flexible membrane coating including curing adequately. All as per manufactures recommendation/standard specifications and instructions of Engineer-in- charge. rate quoted includes cost of all materials, labour charges, conveyance,tools and all other incidental charges etc complete for in accessible areas. one primer and two top coats.                                                                                                                                                                                                                                                                                                                                                                              | 767.08 |
| 375 | 1540 | Providing one coat of CERALASTIC/TECH WAVE 2000/Sika raingard/NACC roof coating/Dr.FIXIT PDIDFIN 2K water proofing membrane coating followed by one bond coat of CERA BOND SBR /TEC BOND SBR/Sika latex/NACC latex/Dr.FixitPidicreteurpsbr latex over the membrane coating and providing cement plastering 6mm thick in CM LATEX over the membrane coating and providing cement plastering 6mm thick in CM 1:4 admixed with general purpose water proofing compound of respective products and curing adequately. All as per manufacturers recommendation/standard specifications and instructions of Engineer-in- charge. The scope of work includes dismantling the existing damaged weathering course and tiles to expose to the RCC slab and finishing to match with the existing weathering course. Rate quoted includes cost of all materials except cement which will be issued free of cost at BHEL stores, labour charges, conveyance, tools and all other incidental charges etc complete. Replacing the damaged tiles and repointing where ever required which will be paid under separate item for accessible areas. (cement consumption = 2.74kg/sqm) | 500.61 |
| 376 | 1541 | Attending Crack filling at parapet level without pressure grouting. The scope of work includes routing the cracks with a mechanically operated groove cutter and sealing the groove with flexible sealant-CERA CRACK FILLER/TEC KRACK FILLER Sika CRACK SEAL/NACC CRACK FILLER/Dr.FixitCrack-X paste and providing two coats of CERAFLEX/TEC WAVE 3000/Sika RAIN GARD/NACC ROOF COATING/Dr.FIXIT NEW COAT highly flexible membrane for a width of 10cms aligned to the centre of the crack. All as per /manufactures recommendations/standard specifications and instructions of Engineer-in-charge. rate quoted includes coat of all materials, labour charges, conveyance, tools and all other incidental charges etccomplete.                                                                                                                                                                                                                                                                                                                                                                                                                                   | 223.85 |
| 377 | 1543 | Drilling pockets and fixing PVC Nipples in position along weak concrete junctions and leakage points in walls/floor and pressuregrouting CERA EXPAN 250/TEC SWELL/Sika INTRAPLAST/NACC EXPAN/Dr.FIXITPIDICRETE AM 250 expansive grouting additives admixed with cement slurry using hand operated grouting pump. The scope also includes plugging the grout hole with CERA PLUG/TEC STOP/Sika HYDRO PLUG/NACC PLUG/Dr.FIXIT INSTANT LEAK PLUG. All asper manufactures recommendations/standard specifications and instructions of Engineers-in- charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges except cement which will be issued free of cost at NITT stores. (CEMENT CONSUMPTION = 0.35KG/POINT)                                                                                                                                                                                                                                                                                                                                                                                         | 215.71 |
| 378 | 1544 | Providing one coat of Antifungal coating-tec tough/Cera re-played/Sika Multi guard or Sika gard 67/NACC acrylic/Dr.FIXIT DAMPGUARD-protective and decorative coating system as per manufactures recommendations/standard specifications and instructions of Engineer-in-chagre. The scope of work includes surface preparations including cleaing the wall surfaces to be free of previous coatings, dust loose particles, algae growth and atmospheric deposits, filling small blow holes if any with puty,. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidentals charges etc complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 300.74 |

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| 379     | 1545     | Arresting leakage through RCC Construction joints The scope of work includes routing out the horizontal cracks along/construction joints to expose the RCC joint and applying CERA SEAL/TEC POLYSEAL G/Sika Crack Seal /NACC poly seal gun grade polysulphide sealant/Dr.FIXIT PU SEALANT.The scope also includes application of CERAFLEX/TEC WAVE 3000/Sika Rain gard/NACC Roof COATING /DR.FIXIT NEW COAT single component flexible membrane with intermediate layer of cloth over the exposed are after allowing the PS(POLYSULPHIDE SEALENT) TO CURE FOR 72 HOURS, All as per manufactures recommendations/standard specifications and instructions of Engineer-in-charge.Rate quoted includes cost of all materials,labourcharges,conveyance,tools and all other incidental charges etc complete. | 738.67  |
| 380     | 1547     | Providing aluminum Sheet Flashing. The scope of work includes cutting a neat groove along the brick wall and fixing Aluminum sheet flashing of 1' to 1'6" as required including re-filling the grooves and sealing the joints with CERA SEAL / TEC POLYSEAL G /Sika Polysulphide/NACC poly seal gun grade polysulphide sealant/Dr. FIXIT PUSEALANT.All as per Manufacturer's recommendations / standard specifications and instructions of Engineer-in-Charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and other incidental charges etc. Complete.                                                                                                                                                                                                               | 710.10  |
| 381     | 2.25(a)  | Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 652.72  |
| 382     | 2.34     | Supplying chemical emulsion in sealed containers including delivery as specified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| 382.1   | 2.34.1   | Chlorpyriphos/ Lindane emulsifiable concentrate of 20%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 218.73  |
| 383     | 2.35     | Diluting and injecting chemical emulsion for POST CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| 383.1   | 2.35.2   | Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| 383.2   | 2.35.2.1 | With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 49.80   |
| 384     | 2.36     | Extra for levelling & neatly dressing of disposed soil completely as directed by Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 86.70   |
| 385     | 5.33     | Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:                                                                                                                |         |
| 385.1   | 5.33.1   | Concrete of M25 grade with minimum cement content of 330 kg /cum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| 385.1.1 | 5.33.1.1 | All works upto plinth level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8856.51 |
| 385.1.2 | 5.33.1.2 | All works above plinth level upto floor V level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9187.91 |
| 386     | 6.38     | Providing and laying Autoclaved Aerated concrete(AAC) blocks masonry 100 mm/ 125 mm thick with Grade-1 AAC blocks of density 551 to 650 kg/cum conforming to IS:2185 (Part 3) in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand ). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.                                                                                                                                                                                                                                                                                                                                                                                          | 9500.10 |

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| 387   | 6.47    | Providing and laying Autoclaved Aerated concrete(AAC) blocks masonry with 150 mm to 300 mm thick with Grade-1 AAC blocks of density 551 to 650 kg/cum conforming to IS:2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7765.28 |
| 388   | 9.79    | Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| 388.1 | 9.79.2  | 50 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 332.42  |
| 388.2 | 9.79.3  | 65 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 337.69  |
| 388.3 | 9.79.4  | 75 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 360.23  |
| 389   | 9.92    | Providing and fixing chromium plated brass handles with necessary screws etc. complete:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| 389.1 | 9.92.1  | 125 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 215.29  |
| 389.2 | 9.92.2  | 100 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 192.18  |
| 390   | 9.117   | Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1 mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineerin- charge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| 390.1 | 9.117.1 | Extruded section profile size 48x40 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 251.78  |
| 390.2 | 9.117.2 | Extruded section profile size 42x50 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 308.75  |
| 391   | 9.118   | Providing and fixing to existing door frames.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| 391.1 | 9.118.1 | 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm ( $\pm 0.2$ mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm 0.2$ mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineerin- charge. (For W.C. and bathroom door shutter). | 2766.74 |

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| 391.2 | 9.118.2 | 30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm ( $\pm 0.2$ mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm ( $\pm 0.2$ mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                         | 3031.88 |
| 392   | 9.123A  | Providing PVC moulding / architrave for door frame made up of extruded solid foam PVC profile having homogenous fine cellular structure with smooth outer integral skin, minimum 30 mm width and minimum 12 mm thick suitable for fixing to frame. The molding shall be snap fitted in the groove provided in the frame & fixed with PVC solvent adhesive / cement and self tapping screws (of required size) complete as per direction of Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 126.54  |
| 393   | 9.124   | Providing and fixing factory made PVC door shutter made of solid foam PVC profiles of thickness 5 mm and 15 mm at edges integrally extruded for vertical style and horizontal (top/ bottom/ lock) rails of minimum cross section of 70mmx 28mm, of shape and design as per manufacturer's specifications having homogenous fine cellular structure and smooth integral outer skin, inserted with G.I. 'C' section/ rectangular tube profile of minimum 0.30 mm thickness with 120 gsm coating as stiffeners as per manufacturer's specifications Mitred cut joints for styles and rails provided with telescopic polymeric 'L' corners are jointed together using solvent adhesive and strengthened with fully threaded stainless steel screws (of required size) through reinforced stiffener with paneling of specified solid foam PVC board/ high pressure laminate of required thickness and of approved design and shade (matching the styles and rails), secured within styles and rails with specially designed solid foam PVC moulded beadings of required size using PVC solvent adhesive/ cement. The finished door shutter including SS hardware, 1 no. ss sliding bolt 200 x 10mm, 1 no. SS tower bolt 200 x 10 mm and 2 nos. SS handles 125mm, shall be fixed to frame with 3 nos. stainless steel hinges of minimum size 100x58x1.9 mm and stainless steel screws of required size complete as per direction of the Engineer-in-Charge. (Cost of above hardware is inclusive in rates) |         |
| 393.1 | 9.124.1 | 5 mm thick solid foam PVC panel of required size with moulded/ extruded beading of appropriate design shape and size as per manufacturer's specifications ( to secure the panel insert tight in place within the style and rails of shutter) matching the colour and shade of shutter frame. Non decorative type.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3498.15 |
| 393.2 | 9.124.2 | 5 mm thick solid foam PVC panel of required size with moulded/ extruded beading of appropriate design shape and size as per manufacturer's specifications ( to secure the panel insert tight in place within the style and rails of shutter) matching the colour and shade of shutter frame. Decorative type.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3856.10 |

|         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
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| 394     | 9.147      | Providing and fixing factory made uPVC glazed/wire mesh windows/ doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and Inline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineer-in-Charge. |          |
|         |            | Wire mesh / Glazing of plain/ toughened/ laminated/ double glass unit with / without high performance coatings as per design requirements and conforming to IS: 3548 & IS: 16231 shall be paid separately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |
| 394.A   | 9.147.A1   | Two track two panels sliding window with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |
| 394.A.1 | 9.147.A1.1 | Using R2 series with frame (40 mm & above) x (40 mm & above) & sash (25 mm & above) x (50 mm & above) with zinc alloy (zamak) powder coated touch locks with hook (Height upto 1.2 metre).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7732.85  |
| 394.B   | 9.147.A2   | Two track four panels sliding windows with Aluminium channel for roller track, wool pile, zinc alloy (zamak) powder coated handle on three panels along with multi-point locking system, nylon rollers with SS 304 body.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |
| 394.B.1 | 9.147.A2.1 | Using R3 series with frame (55 mm & above) x (40 mm & above) & sash (30 mm & above) x (55 mm & above) (Height upto 1.8m).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7324.25  |
| 394.C   | 9.147.A4   | Three track three panels sliding window with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |
| 394.C.1 | 9.147.A4.1 | Using R2 series with frame (70 mm & above) x (40 mm & above) & both glazed and fly screen sash (25 mm & above) x (50 mm & above) with zinc alloy (zamak) powder coated touch locks with hook. (Height upto 1.2 metre).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10243.77 |
| 394.D   | 9.147.C1   | Fixed window / ventilator without mullion / transom.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| 394.D.1 | 9.147.C1.1 | Using R1 series with frame (33 mm & above) x (35 mm & above). (Height upto 0.90 metre)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7684.77  |
| 394.D.2 | 9.147.C1.2 | Using R2 series with frame (39 mm & above) x (39 mm & above). (Height upto 1.2 metre)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7505.40  |
| 394.E   | 9.147.C2   | Fixed window / ventilator with mullion / transom.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |
| 394.E.1 | 9.147.C2.1 | Using R1 series with frame (33 mm & above ) x (35 mm & above) & mullion (33 mm & above) x (50 mm & above). (Height upto 0.90 metre)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8530.80  |
| 394.E.2 | 9.147.C2.2 | Using R2 series with frame (39 mm & above ) x (39 mm & above) & mullion (39 mm & above) x (60 mm & above). (Height upto 1.2 metre)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8167.58  |
| 395     | 9.149      | Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 215.29   |

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| 396   | 9.150   | Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 190.09  |
| 397   | 9.151   | Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 107.90  |
| 398   | 9.152   | Providing and fixing steel roller for uPVC sliding door with necessary screws etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 172.84  |
| 399   | 9.174   | Providing and fixing 2 mm thick 16 to 19 mm wide PVC edge binding tape of approved quality for cupboard/wardrobe shutters including necessary synthetic resin hot pressed to edges on binding machine etc. complete as per direction of Engineer- in-charge.                                                                                                                                                                                                                                                                                                                                                                                                            | 40.82   |
| 400   | 10.4    | Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates at the junctions and corners, 25 mm dia pulley, 40x40x6 mm angle and Tiron guide at the top and bottom respectively, including applying a priming coat of approved steel primer                                                                                                                                                                                                                                                                                                                                           | 6118.37 |
| 401   | 10.26   | Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| 401.1 | 10.26.1 | M.S. tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 183.38  |
| 401.2 | 10.26.3 | G.I. pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 189.21  |
| 402   | 11.19   | Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :                                                                                                                                                                                                                                                                                                                                                                            |         |
| 402.1 | 11.19.1 | Light shade pigment using white cement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1429.19 |
| 403   | 12.47   | Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8 mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified. |         |
| 403.1 | 12.47.1 | 2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6" ) as specified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1305.77 |
| 403.2 | 12.47.2 | 2 mm thick flat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1160.69 |
| 404   | 13.69   | Polishing on wood work with ready mixed wax polish of approved brand and manufacture :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| 404.1 | 13.69.1 | New Work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 184.17  |
| 405   | 14.12   | Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.                                                                                                                                                                                                                                                                                                                                                          | 525.44  |
| 406   | 19.35   | Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| 406.1 | 19.35.1 | 450 mm dia RCC pipes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2494.00 |
| 406.2 | 19.35.2 | 600 mm dia RCC pipes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3169.28 |
| 407   | 21.8    | Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |

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| 407.1 | 21.8.1 | Upto 5 mm depth and 5 mm width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 90.15   |
| 408   | 22.6   | <p>Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:</p> <p>(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/ sqm mixed with water proofing cement compound @ 0.253 kg/sqm.</p> <p>(b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.</p> <p>(c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around.</p> <p>(d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately).</p> <p>For the purpose of measurement the entire treated surface will be measured.</p> | 641.92  |
| 409   | 21.4   | Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in- charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2631.26 |
| 410   | MR-1   | Supply and fixing of fluted PVC panels of 6 mm thick of required colour on wood/wall surface.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2500.00 |
| 411   | MR-2   | Providing and deploying 45 ft Boom Lift (JLG or equivalent articulating/telescopic boom lift) with trained operator on rental basis, including fuel, lubricants, routine maintenance, transportation, insurance, statutory compliances, and all accessories, complete for safe operation at site as directed by the Engineer-in-Charge. The boom lift shall be suitable for indoor/outdoor maintenance works up to approximately 45 ft platform height. 8 Hrs operation will be counted as a day for billing purpose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5000.00 |
| 412   | MR-3   | Providing and fixing polycarbonate sheets (size, shape and pitch of corrugations as approved by Engineer-in-Charge) (6mm Thick) roofing. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x55 mm) with EPDM seal, complete upto ant pich in horizontal/vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1025.00 |
| 413   | MR-4   | Providing and deploying one tipper lorry of 4–5 unit capacity with driver on rental basis, suitable for transportation of earth, debris, construction materials, demolition waste, etc., including fuel, lubricants, driver/operator charges, routine maintenance, repairs, insurance, taxes, permits and all other incidental charges, complete as directed by the Engineer-in-Charge. 8 Hrs operation will be counted as a day for billing purpose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8500.00 |
| 414   | MR-5   | Providing and deploying Hydraulic Excavator (Hitachi or equivalent) of suitable capacity with trained operator on rental basis for excavation, loading, earthwork, debris handling and other miscellaneous works, including fuel, lubricants, operator charges, routine maintenance, repairs, mobilization/demobilization and all other incidental charges, complete as directed by the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2500.00 |
| 415   | MR-6   | Providing and deploying Crawler Dozer/Bulldozer of suitable capacity with trained and experienced operator on rental basis for earthwork, spreading, levelling, pushing and disposal of earth/debris, including fuel, lubricants, operator charges, routine maintenance, repairs, mobilization and demobilization, and all other incidental charges, complete as directed by the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1200.00 |

Percentage BoQ

Tender Inviting Authority: The Director , NIT Trichy-15

Name of Work: Annual Maintenance Contract for Civil Works for Institute & Quarters Zones at NIT-Trichy.

Contract No: NITT/EMD/AMC/CVL/Tender/2026-27/10

|                                                                                                                                                                                                                                                                                                                                   |                                                                                                                              |               |         |                               |                                              |                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------|---------|-------------------------------|----------------------------------------------|---------------------------------------------------------|
| Name of the Bidder/<br>Bidding Firm /<br>Company :                                                                                                                                                                                                                                                                                |                                                                                                                              |               |         |                               |                                              |                                                         |
| <div>PRICE SCHEDULE</div> <div>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only ) <u>Quoted Amount without GST</u></div> |                                                                                                                              |               |         |                               |                                              |                                                         |
| Sl.<br>No.                                                                                                                                                                                                                                                                                                                        | Item Description                                                                                                             | Quantity      | Units   | Estimated Rate in<br>Rs.    P | TOTAL AMOUNT Without<br>Taxes in<br>Rs.    P | TOTAL AMOUNT<br>In Words                                |
| 1                                                                                                                                                                                                                                                                                                                                 | Annual Maintenance Contract for Civil Works for<br>Institute & Quarters Zones at NIT-Trichy.<br>(For the Schedule "A" items) | 1.000         | Lumpsum | 1,30,35,000.00                | 1,30,35,000.00                               | INR One Crore Thirty Lakhs<br>Thirty-Five Thousand Only |
| Total in Figures                                                                                                                                                                                                                                                                                                                  |                                                                                                                              |               |         |                               | 13035000.00                                  | INR One Crore Thirty Lakh<br>Thirty-Five Thousand Only  |
| Quoted Rate in Figures                                                                                                                                                                                                                                                                                                            |                                                                                                                              |               | Select  |                               | 0.00                                         | INR Zero Only                                           |
| Quoted Rate in Words                                                                                                                                                                                                                                                                                                              |                                                                                                                              | INR Zero Only |         |                               |                                              |                                                         |

"The above is for reference only. The percentage should be entered exclusively in the Price Bid (xls.). The Price Bid must not be included in the Technical Bid; failure to comply will result in the bid being summarily rejected."

Note: The bidder shall quote a percentage rate (+/-) on the above contract value. The percentage quoted by the successful bidder shall be uniformly applicable to all items specified in Schedule-A of the tender document. Accordingly, the rates payable for individual items shall be derived by applying the quoted percentage over or below the corresponding item rates in Schedule-A.



# LIST OF APPROVED MAKES OF MATERIALS

1. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials as list of this bid document.
2. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material/ Brand/ Make.
3. Whenever the specified brand of material is not available then, the Engineer-in-charge may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction.

| List of Approved Civil materials                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                               |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------|
| <b>NOTE:</b> Not withstanding to the approval given in the list, the field staff are requested to observe the following conditions |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                               |
| 1                                                                                                                                  | Equivalent material and finishes of any other make may be used on written request of the contractor, in case of unavoidable circumstances and also if it is established that minimum three brands are not specified below or three brands out of all brands specified below are not available in the market, after written approval of the alternate brand by the NIT approving authority. This substitution shall be subject to cost adjustment incase the substituting brand is available at cheaper rates in market than those mentioned herein above. There shall be no cost adjustment if the substituting brand is costlier in market than those mentioned herein. |                     |                               |
| 2                                                                                                                                  | In addition, thebrands approved as hereunder, should have valid and active BIS certificate as on the date of supply for the work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                               |
| 3                                                                                                                                  | Material shall conform to Make in India policy of Government of India as on the date of supply for the work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                               |
| 4                                                                                                                                  | Other brands not included in the list below but having BIS certificate on the date of supply for the work shall only be allowed against note (1) above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                               |
| 5                                                                                                                                  | In Case of non availability of BIS codes for any of the materials incorporated above, the Engineer-in -Charge shall send the materials for testing as per the relevant ASTM or EN codes and satisfy himself before using the same in work.                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                               |
| Sl.No                                                                                                                              | Material Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Material            |                               |
|                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Brand               | Make                          |
| SUB HEAD No.2                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                               |
| EARTH WORK                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                               |
| 1                                                                                                                                  | Chlorpyriphos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DURSBANTCT          | DE-NOCIL Ltd.                 |
|                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Premise Agenda      | Bayer Ltd                     |
|                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PIRAMID             | AMVAC AGRI RASAYAN Pvt. Ltd   |
|                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NOBAN               | Chemtts Wets& Flows Pvt. Ltd. |
|                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | HILBAN              | Hidustan Insecticides Ltd     |
|                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sarups Pest Control | Sarups Pest Control Ltd.      |
| SUB HEAD No.3                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                               |

|                      |                                                                        |                                  |                                             |
|----------------------|------------------------------------------------------------------------|----------------------------------|---------------------------------------------|
| <b>MORTAR</b>        |                                                                        |                                  |                                             |
| 1                    | Ordinary Portland Cement (43 grade ) / Portland Pozzolana Cement (PPC) | ACC                              | ACC cements Ltd                             |
|                      |                                                                        | Ultra Tech                       | Ultra Tech Cement Ltd.                      |
|                      |                                                                        | Coromandel                       | India Cements Ltd.                          |
|                      |                                                                        | Birla                            | Birla Corportion Ltd.                       |
|                      |                                                                        | Chettinad                        | Chettinad Cements Corportion Ltd.           |
|                      |                                                                        | Bharathi                         | Bharathi Cement Corportion Ltd.             |
|                      |                                                                        | Dalmia                           | Dalmia Cement Bharat Ltd.                   |
|                      |                                                                        | Zuari                            | Zuari Cement Limited.                       |
|                      |                                                                        | JSW                              | JSW Cement Ltd.,                            |
|                      |                                                                        | Jaypee Cement                    | Jaypee Cement Ltd                           |
|                      |                                                                        | Maha Cement                      | Myhome Industries Pvt. Ltd                  |
|                      |                                                                        | J.K Cement                       | J.K Cement Pvt. Ltd                         |
|                      |                                                                        | Ambuja Cement                    | Ambuja Cements Ltd                          |
|                      |                                                                        | Penna Cement                     | Penna Cement Industries Ltd.                |
|                      |                                                                        | Konark Cement                    | Konark Cement                               |
|                      |                                                                        | Centaury Cement                  | Birla Gold Cement                           |
|                      |                                                                        | Shree Cement                     | Shree Cement                                |
|                      |                                                                        | Ramco Cement                     | Ramco Cement Ltd                            |
|                      |                                                                        | Sagar Cement                     | Sagar Cements Ltd                           |
|                      |                                                                        | Emami Cement                     | Emami Cements Ltd                           |
| <b>SUB HEAD No.4</b> |                                                                        |                                  |                                             |
| <b>CONCRETE WORK</b> |                                                                        |                                  |                                             |
| 1                    | Damp Proof course materials                                            | MAPEI                            | MAPEI Construction Products India Pvt. Ltd. |
|                      |                                                                        | Impermo                          | Snowcem Paints                              |
|                      |                                                                        | Duraseal                         | Apurva India Pvt. Ltd.                      |
|                      |                                                                        | ACCO Proof                       | ACC Cement Ltd.                             |
|                      |                                                                        | Dr. Fixit                        | Pidilite Industries                         |
|                      |                                                                        | Ferrous crete                    | Ferrous Crete (India) Pvt. Ltd.             |
|                      |                                                                        | Fosroc                           | Fosroc Chemicals India Pvt. Ltd.            |
|                      |                                                                        | CICO                             | CICO Industries                             |
|                      |                                                                        | SIKA                             | Sika India Pvt. Ltd                         |
|                      |                                                                        | PIDILITE                         | Pidilite Industries Ltd.                    |
|                      |                                                                        | BASF                             | BASF India Ltd                              |
|                      |                                                                        | MYK                              | MYK LATICRETE India Pvt. Ltd                |
|                      |                                                                        | Asian Paints smartcare dampproof | Asian Paints Ltd                            |
|                      |                                                                        | WeatherCoatRoofgaurd             | Berger Paints                               |
|                      |                                                                        | Polytancreteiwl                  | Sunanda Speciality Coatings Pvt,Ltd         |

|                                 |                                 |                                                 |                                          |
|---------------------------------|---------------------------------|-------------------------------------------------|------------------------------------------|
|                                 |                                 | Wallshield 2K                                   | Berger Paints                            |
|                                 |                                 | KCPL                                            | Kunal Conchem Pvt. Ltd.,                 |
| <b>SUB HEAD No.5</b>            |                                 |                                                 |                                          |
| <b>REINFORCED CONCRETE WORK</b> |                                 |                                                 |                                          |
| 1                               | TMT bars Fe-500D                | SAIL                                            | Steel Authority of India Ltd.            |
|                                 |                                 | TISCO                                           | TATA STEEL Ltd                           |
|                                 |                                 | VIZAG                                           | Rastriya Ispat Nigam Ltd.                |
|                                 |                                 | JSW                                             | JSW Steel Ltd                            |
| 2                               | Plasticiser & Super Plasticiser | Contrament, Power flow                          | MC Bauchemie (India ) Pvt. Ltd           |
|                                 |                                 | Sunanda Chemicals                               | Sunanda Chemicals Ltd.                   |
|                                 |                                 | Plastiment, Sikament                            | Sika Inida Pvt Ltd.,                     |
|                                 |                                 | Conplast SP430                                  | FOSROC India                             |
|                                 |                                 | Chryso-HP / Delta / Optima                      | Chryso India Pvt. Ltd.,                  |
|                                 |                                 | MYK Schomburg                                   | MYK Arments range of products            |
|                                 |                                 | BASF                                            | BASF India Ltd                           |
|                                 |                                 | CICO                                            | CICO Industries                          |
|                                 |                                 | Smart Care Techno Plast/Smart Care Maximo Plast | Asian Paints Ltd                         |
|                                 |                                 | Endura                                          | H.R. Jhonsons                            |
|                                 |                                 | KCPL                                            | Kunal Conchem Pvt. Ltd.,                 |
| 3                               | Expansion Joint Bitumen board   | Dura board HD100                                | Supreme Industries                       |
|                                 |                                 | DURAFILL                                        | Supreme Industries                       |
|                                 |                                 | STP                                             | Shalimar Tar Products                    |
| 4                               | Post tensioning System          | CRUX                                            | Crux Processing systems Pvt Ltd.,        |
|                                 |                                 | VSL                                             | VSL India Pvt Ltd.                       |
|                                 |                                 | Ultracon                                        | Ultracon Structural Systems Pvt Ltd      |
|                                 |                                 | BBR                                             | BBR (India ) Pvt . Ltd                   |
| 5                               | PT Strands                      | DP wires                                        | D.P Wires Ltd.                           |
|                                 |                                 | TATA wiron                                      | TATA Steel Ltd.,                         |
|                                 |                                 | Usha Martin                                     | Usha Martin Ltd                          |
| 6                               | Adhesives                       | Dunlop                                          | India Tyre& Rubber Co (India) Ltd.       |
|                                 |                                 | Vamorganic                                      | Vamorganic Ltd.,                         |
|                                 |                                 | Sika                                            | Sika India Pvt. Ltd                      |
|                                 |                                 | Fevicol                                         | Pidilite Industries                      |
|                                 |                                 | Proofex of adhesive                             | Fosroc India Ltd                         |
|                                 |                                 | CICO                                            | CICO Industries                          |
|                                 |                                 | Kerabond Plus                                   | MAPEI Construction Products India P Ltd. |
|                                 |                                 | Asian Paints                                    | Asian Paints                             |

|               |                                      |                             |                                             |
|---------------|--------------------------------------|-----------------------------|---------------------------------------------|
| 7             | Grout                                | Ardex                       | Ardex Endura Adhesive India Pvt. Ltd        |
|               |                                      | LATA POXY                   | MYK LATICRETE India Pvt. Ltd                |
|               |                                      | Fugabella, Porcelana        | Kerakoll India Pvt. Ltd                     |
|               |                                      | Dr. Fixit                   | Pidilite Industries                         |
|               |                                      | Weber                       | Saint-Gobin India Pvt. Ltd                  |
|               |                                      | Ferrous crete               | Ferrous Crete (India) Pvt. Ltd.             |
|               |                                      | BASF                        | BASF India Ltd                              |
|               |                                      | FosrocGP2                   | Fosroc India Ltd                            |
|               |                                      | MYK Schomburg               | MYK Arments range of products               |
|               |                                      | Fugabella, Porcelana        | Kerakoll India Pvt. Ltd                     |
|               |                                      | Kerapoxy                    | MAPEI Construction Products India P Ltd.    |
|               |                                      | KCPL                        | Kunal Conchem Pvt. Ltd.,                    |
|               |                                      | Asian paints                | Smart Care SC GP Grout Grey                 |
|               |                                      | Pidilite                    | Pidilite Industries Ltd.                    |
|               |                                      | Care                        | Care                                        |
|               |                                      | Mapectfill GPIN             | MAPEI Construction Products India P Ltd.    |
|               |                                      | SIKA                        | SIKA India                                  |
|               |                                      | Smart Care SC GP Grout Grey | Asian Paints                                |
|               |                                      | HomeshieldSupergROUT        | Berger Paints                               |
| 8             | Ready Mix Concreate                  | Ultra Tech                  | Ultra Tech Concrete                         |
|               |                                      | ACC                         | ACC Ltd                                     |
|               |                                      | RMC (India)                 | RMC (India) Pvt. Ltd.                       |
|               |                                      | Lafarge                     | Lafarge India Pvt. Ltd                      |
| 9             | Mechanical coupler for Reinforcement | Dextra                      | Dextra India Pvt., Ltd.                     |
|               |                                      | Sanfield                    | Sanfield India Ltd                          |
| SUB HEAD No.6 |                                      |                             |                                             |
| BRICK WORK    |                                      |                             |                                             |
| 1             | AAC Blocks                           | Xtralite                    | UITRATECH Cement Ltd                        |
|               |                                      | Areocon                     | HIL                                         |
|               |                                      | Siporex                     | SIPOREX                                     |
|               |                                      | Nucon                       | Green way building materials India Pvt. Ltd |
|               |                                      | Renacon                     | RenaatusProcon Pvt. Ltd.                    |
|               |                                      | Birla Aerocon               | HIL Ltd (CK Birla Group)                    |
|               |                                      | NCL                         | NCL VEKA Ltd.                               |
|               |                                      | Ultrtech                    | Ultratech cements Ltd.                      |

|                 |                                                                                                        |                          |                                                         |
|-----------------|--------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------|
| 2               | Adhesive for AAC Block /Tiles                                                                          | Ardex Endura/Gold Star   | Ardex Endura                                            |
|                 |                                                                                                        | Ferrous Crete            | Ferrous Crete (India) Pvt. Ltd.                         |
|                 |                                                                                                        | Smart Care Tile Adhesive | Asian Paints                                            |
|                 |                                                                                                        | Tile Adhesive Plus       | Berger Paints                                           |
| SUB HEAD No.9   |                                                                                                        |                          |                                                         |
| WOOD & PVC WORK |                                                                                                        |                          |                                                         |
| 1               | Wooden Flush door shutters                                                                             | Jayna ply                | Jain Wood Industries                                    |
|                 |                                                                                                        | Raavella door            | Raavella Industrials (P) Ltd                            |
|                 |                                                                                                        | Kailash                  | Kailash Hi tech Timber Industries India Pvt. Ltd        |
|                 |                                                                                                        | Shakthi                  | Shree Shakthi Modern Flush doors                        |
|                 |                                                                                                        | Greenlam                 | Greenlam Industries                                     |
|                 |                                                                                                        | Mayur                    | Mayur Plywood                                           |
|                 |                                                                                                        | MP Ply wood products     | MP Wood products                                        |
|                 |                                                                                                        | Archidply                | Archidply Industries Ltd                                |
|                 |                                                                                                        | DEC                      | D.E.C Infrastructure & Project (India) Private Limited. |
|                 |                                                                                                        | Greenpanel               | Greenpanel Industries Ltd.                              |
|                 |                                                                                                        | Jain Doors               | Jain Doors Pvt. Ltd,                                    |
|                 |                                                                                                        | Indian Timber Products   | Indian Timber Products                                  |
|                 |                                                                                                        | Kitply                   | Kitply Industries Ltd.                                  |
|                 |                                                                                                        | DuroFlushdoors           | Duro Ply Industries Ltd.                                |
|                 |                                                                                                        | Kenwood                  | Kenwood Ply & Board                                     |
|                 |                                                                                                        | Century                  | Century Flush Doors                                     |
| 2               | Water Proof Plywood, Commercial ply, Fire retardant ply and Block boards, BWR Marine Ply, BWR/ MR Ply. | Jayna ply                | Jain Wood Industries                                    |
|                 |                                                                                                        | Greenpanel               | Greenpanel Industries Ltd.                              |
|                 |                                                                                                        | Archidply                | Archidply Industries Ltd                                |
|                 |                                                                                                        | Kitply                   | Kitply Industries Ltd.                                  |
|                 |                                                                                                        | Duroply                  | Duro ply Industries Ltd.,                               |
|                 |                                                                                                        | Century ply              | Century Flush Doors                                     |
|                 |                                                                                                        | Wuudply                  | M/s Prime Veneers Ltd                                   |
| 3               | Laminates                                                                                              | Green Lam                | Green lam Industries Ltd.                               |
|                 |                                                                                                        | Centuary                 | Centuray laminates                                      |
|                 |                                                                                                        | Merino                   | Merino laminates                                        |
|                 |                                                                                                        | Royal touche             | Royal touche laminates                                  |
|                 |                                                                                                        | Kitmica                  | Kitply Industries Ltd.                                  |
|                 |                                                                                                        | Formica                  | Formica Laminates (India) Pvt Ltd.                      |

|   |                                                                                                        |                     |                                       |
|---|--------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------|
|   |                                                                                                        | Decolam             | Decolam India Pvt Ltd.                |
|   |                                                                                                        | Archidply           | Archidply Industries Ltd              |
|   |                                                                                                        | Sonear              | Sonear Laminates                      |
|   |                                                                                                        | Sunmica             | Sunmica Industries                    |
|   |                                                                                                        | Vidya Ply           | Vidya Ply & Board                     |
|   |                                                                                                        |                     | Pvt.Ltd.                              |
| 4 | Prelaminated particle board MDF<br>(Exterior Grade)                                                    | Novapan             | GVK Novapan Industries Pvt Ltd.,      |
|   |                                                                                                        | Merino              | Marino laminates                      |
|   |                                                                                                        | Kitlam              | Kit Ply Industries Ltd,               |
|   |                                                                                                        | Ecoboard            | Ecoboard Industries Ltd.              |
|   |                                                                                                        | Associate           | Associate Décor Limited               |
|   |                                                                                                        | Archid ply          | Archid ply industries Ltd.            |
|   |                                                                                                        | TESA                | Balaji Action Buildwell               |
|   |                                                                                                        | Centuary            | Centuary MDF                          |
|   |                                                                                                        | Green lam           | Green lam industries Ltd.             |
|   |                                                                                                        | Greenpanel          | Greenpanel Industries Ltd.            |
| 5 | Veenering                                                                                              | Greenpanel          | Greenpanel Industries Ltd.            |
|   |                                                                                                        | Centuary            | Centuary MDF                          |
| 6 | FRP Door Frames & Shutter                                                                              | Jain Doors          | Jain Doors Pvt. Ltd,                  |
|   |                                                                                                        | Signum              | Signum Fire Protection India Pvt. Ltd |
|   |                                                                                                        | Meena Fibre Glass,  | Meena Fibre Glass                     |
|   |                                                                                                        | Duroplast           | Duroplast extrusion Pvt Ltd           |
|   |                                                                                                        | Cactus              | Cactus                                |
|   |                                                                                                        | Polyline.           | Poluline                              |
| 7 | 1. Factory Made Panel door shutters<br>2. Factory Made Wire-Mesh Door Shutters<br>3. LVL Door shutters | Jain Doors          | Jain Doors Pvt. Ltd,                  |
| 8 | High Density (HDF) Prelaminated board                                                                  | Pergo               | Red Floor India                       |
|   |                                                                                                        | Armstrong           | Armstrong world Industries            |
|   |                                                                                                        | Green ply           | Green ply Industries Ltd.,            |
| 9 | Gypsum board                                                                                           | Gyproc Saint Gobain | Saint Gobain Gyprock India Ltd.,      |
|   |                                                                                                        | Lafarge             | Lafarge Gypsum India Pvt. Ltd         |
|   |                                                                                                        | USG Boral Board     | USG Board India (P) Ltd.              |
|   |                                                                                                        | Armstrong           | Armstrong world Industries            |
|   |                                                                                                        | Dorma               | Dorma India Pvt Ltd                   |

|    |                                                |                 |                                       |
|----|------------------------------------------------|-----------------|---------------------------------------|
| 10 | Glass door hardware                            | Kich            | Kich Architectural Products Ltd.      |
|    |                                                | Classic         | Classic hardware                      |
|    |                                                | Hafele          | Hafele India Pvt. Ltd                 |
|    |                                                | Ozone           | Ozone Hardware.                       |
|    |                                                | Geze            | Geze GMBH                             |
| 11 |                                                | Define          | Define Overseas Pvt. Ltd.             |
|    |                                                | Squash          | Squash glass doors                    |
|    |                                                | Dorset          | Dorset Industries Pvt Ltd             |
|    |                                                | Garg            | D P Garg Pvt Ltd                      |
|    | Hydraulic door closers/ Floor springs          | Godrej          | Godrej locking solution & systems     |
|    |                                                | Hardwyn         | Hardwyn hardware                      |
|    |                                                | Dorma           | Dorma India Pvt Ltd.                  |
|    |                                                | Everite         | Everite agencies                      |
|    |                                                | MAGNUM KIT      | Mukund Overseas                       |
|    |                                                | Dorset          | Dorset Industries Pvt Ltd             |
|    |                                                | Geze            | GezeGMBH                              |
|    |                                                | Garg            | D P Garg Pvt Ltd                      |
|    |                                                | Ingersolrand    | Ingersolrand India Pvt Ltd            |
|    |                                                | OZONE           | Ozone Hardware.                       |
|    | Locks & Latches                                | Dorset          | Dorset Industries Pvt Ltd             |
|    |                                                | Godrej          | Godrej locking solutions& systems     |
|    |                                                | Harrison        | Harrison locks                        |
|    |                                                | Plaza           | Bharat lock House                     |
|    |                                                | Yale            | ASSA ABLOY India (P) Ltd.             |
|    |                                                | Hitech          | Globe Locks India                     |
|    |                                                | Hafele          | Hafele India Pvt. Ltd                 |
|    |                                                | Link            | Link Locks                            |
|    |                                                | Geze            | GezeGMBH                              |
| 13 | Metalic / Steel Fire Door , frame and shutters | Garg            | D.P. Garg Pvt Ltd.,                   |
|    |                                                | Shakthi Hormann | Shakthi Hormann Pvt Ltd,              |
|    |                                                | Promot          | Promot fire & Insulation (P) Ltd.     |
|    |                                                | Godrej          | Godrej Security solutions             |
|    |                                                | Signum Fire     | Signum Fire Protection India Pvt. Ltd |
|    |                                                | MPP Schodders   | MPP Technology Pvt.Ltd.               |
|    |                                                | NAVAIR          | NAVAIR International Pvt Ltd          |
|    |                                                | Sukri           | Sukri Fire doors Pvt.Ltd              |
| 14 | Fire Smoke Seal                                | Kenwood         | Kenwood Ply & Board                   |
|    |                                                | Hilti           | Hilti India Pvt Ltd.                  |
|    |                                                | Raven           | Raven Global                          |
|    |                                                | Promat          | Promat fire & Insulation (P) Ltd.     |
|    |                                                | Atroflame       | Atroflame Ltd.                        |

|    |                                       |              |                                   |
|----|---------------------------------------|--------------|-----------------------------------|
| 15 | Non Metallic Floor Surface Hardners   | Ironite      | Ironite                           |
|    |                                       | Hardonite,   | Hardonite                         |
|    |                                       | FOSROC       | Fosroc India                      |
|    |                                       | SIKA         | SIKa India                        |
|    |                                       | BASF         | BASF India Ltd.,                  |
|    |                                       | CICO,        | CICO Technologies Ltd.,           |
|    |                                       | Pidilite     | Pidilite Industries Ltd,          |
|    |                                       |              |                                   |
| 16 | Fire rated hardware                   | Dorma        | Dorma India Pvt. Ltd              |
|    |                                       | Ingersolrand | Ingersolrand (India) Ltd,         |
|    |                                       | Geze         | Geze GmbH                         |
|    |                                       | Dorset       | Dorset Industries Pvt Ltd         |
|    |                                       | Garg         | D.P. Garg Pvt Ltd.,               |
|    |                                       | Backers FS   | Backers FS                        |
| 17 | Non Metallic Fire door                | NAVAIR       | NAVAIR International Pvt Ltd      |
|    |                                       | Promot       | Promot fire & Insulation (P) Ltd. |
|    |                                       | Godrej       | Godrej Security solutions         |
|    |                                       | Kenwood      | Kenwood Ply & Board               |
| 18 | Stainless steel screws                | Kundan       | Kundan Industries Ltd.            |
|    |                                       | Pooja        | Pooja Steel Corportion            |
|    |                                       | Atul         | Atul fasteners Ltd.               |
|    |                                       | Alloy        | Alloy Ltd                         |
|    |                                       | GKW          | GKW Limited                       |
|    |                                       | Nettlefold   | Nettlefold screws                 |
| 19 | Butt Hinges openable window shutters  | Hafela       | Hafele India Pvt. Ltd             |
|    |                                       | Alu Alpha    | Alu Alpha India                   |
|    |                                       | Earlt Bihari | Earlt Bihari India Pvt .Ltd.      |
|    |                                       | Dorma        | Dormakaba India Pvt. Ltd          |
|    |                                       | Garg         | D.P. Garg Pvt Ltd.,               |
|    |                                       | Dorset       | Dorset Industries Pvt Ltd         |
| 20 | Mild Steel Butt Hinges / Piano hinges | Jolly        | Jolly Engineering works           |
|    |                                       | Garg         | D.P Garg & Company                |
|    |                                       | Amit         | Lovely metal industries Pvt Ltd.  |
|    |                                       | Jyoti        | Jyoti Architectural Pvt Ltd.      |
|    |                                       | Supreme      | Supreme                           |
|    |                                       | Saswat       | Saswat                            |
|    |                                       | Deepak       | Deepak                            |
|    |                                       | Swift        | Swift screws                      |
| 21 | Stainless steel Butt hinges           | Prayag       | Prayag Polymers (P) Ltd           |
|    |                                       | Ozone        | Ozone Hardware.                   |
|    |                                       | Dorma        | Dormakaba India Pvt Ltd           |
|    |                                       | Geze         | GEZEGMBH                          |



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| 22 | Concealed tower bolt                   | Dorma             | Dorma India Pvt Ltd                         |
|    |                                        | Ingersolrand      | Ingersolrand (India) Ltd,                   |
|    |                                        | Alu Alpha         | Alu Alpha India                             |
|    |                                        | Garg              | D.P. Garg Pvt Ltd.,                         |
| 23 | UPVC doors, frames and window profiles | DORSET            | Dorset Industries Pvt Ltd                   |
|    |                                        | Fenesta           | Fenesta DCM Shriman                         |
|    |                                        | QUTE              | Qute extrusion Pvt. Ltd                     |
|    |                                        | LG                | LG Housys India                             |
|    |                                        | Kommerling        | Profine India Window technology Pvt Ltd.    |
|    |                                        | Duroplast         | Duroplast extrusion Pvt Ltd                 |
|    |                                        | Polyline          | Polyline extrusion Pvt Ltd                  |
|    |                                        | Aparna Venstar    | Aparna Enterprises Ltd.                     |
|    |                                        | AMD               | AMD overseas Impex (India) Pvt. LTD.        |
|    |                                        | SimtaAstrix       | Simta clear coats pvt.Ltd                   |
|    |                                        | Rajshri           | Rajshri Productions Pvt. Ltd.               |
|    |                                        | NCL VEKA          | NCL VEKA Ltd.                               |
|    |                                        | Prominance        | Prominance Window Systems                   |
|    |                                        | Marcolini         | Mathura Polypack(P) Ltd.                    |
|    |                                        | Akshara Polymerss | Akshara Polymerss                           |
|    |                                        | Encraft           | Encraft India Pvt.Ltd.                      |
|    |                                        | Rehau             | Rehau Unlimited Polymer Solutions           |
|    |                                        | Aluplast          | Alu Alpha India                             |
|    |                                        | Shirke            | B.G Shirke Construction Technology Pvt Ltd. |
| 24 | Stainless friction hinges              | Hetich            | HetichIndia Pvt .Ltd.                       |
|    |                                        | Haffle            | Haffle India Pvt .Ltd.                      |
|    |                                        | Securistyle       | Securistyle India Pvt .Ltd.                 |
|    |                                        | Earl Bihari       | Earl Bihari India Pvt .Ltd.                 |
|    |                                        | ROTO              | ROTO Frank Asia                             |
|    |                                        | EBCO              | EBCO                                        |
| 25 | Float Glass                            | Saint Gobain,     | Saint Gobain India Pvt .Ltd. ,              |
|    |                                        | Asahi             | Asahi India glass .Ltd.                     |
|    |                                        | Pilkinton         | Pilkinton India Pvt .Ltd.                   |
|    |                                        | Modiguard         | Gujarat Guardian Ltd.                       |
| 26 | Reflective glass                       | Saint Gobain,     | Saint Gobain India Pvt .Ltd. ,              |
|    |                                        | Asahi             | Asahi India glass .Ltd.                     |
|    |                                        | Pilkinton         | Pilkinton India                             |

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|                     |                                        | Glaverbel                             | Glaverbel India                             |
|                     |                                        | Modifloat                             | Gujarat Guardian Ltd.                       |
| 27                  | Tempered reflective/clear glass        | Saint Gobain,                         | Saint GobainIndia Pvt .Ltd.                 |
|                     |                                        | FUSO                                  | FUSO Glass India Pvt .Ltd.                  |
|                     |                                        | Gurind                                | Gurind India                                |
|                     |                                        | Impact safety                         | Impact safety glassworkes Pvt Ltd           |
|                     |                                        | Asahi                                 | Asahi India glass Ltd,                      |
|                     |                                        | Modiguard                             | Gujarat Guardian Ltd.                       |
| 28                  | Fire rated glass                       | Contra flam/ Pyroswiss of SanitGobain | Saint Gobain India Pvt Ltd.                 |
|                     |                                        | Pyran of Schott                       | Schott glass India Pvt .Ltd.                |
|                     |                                        | Pilkinton                             | Pilkinton India                             |
|                     |                                        | Promat                                | Promat fire & Insulation (P) Ltd.           |
| 29                  | Anchor/ SS Stone Dash fasteners        | Hilti                                 | Hilti India Pvt .Ltd.                       |
|                     |                                        | Fischer                               | Fischer India                               |
|                     |                                        | Anchor                                | Anchor Ltd                                  |
|                     |                                        | Kundan                                | Kundan Industires Ltd.                      |
|                     |                                        | Nutech                                | Nutech Construction Chemicals               |
|                     |                                        | Canon                                 | Cannon                                      |
|                     |                                        | Wurth                                 | Wuerth India Pvt. Ltd                       |
|                     |                                        | Trixel                                | Axel India Pvt.Ltd                          |
|                     |                                        | Helfen                                | Helfen Anchoring System                     |
|                     |                                        | BOSCH                                 | BOSCH Ltd                                   |
| 30                  | Partions                               | Birla Aerocon                         | HIL Ltd (CK Birla Group)                    |
| <b>SUB HEAD: 10</b> |                                        |                                       |                                             |
| <b>STEEL WORK</b>   |                                        |                                       |                                             |
| 1                   | Structural Steel                       | SAIL                                  | SAIL                                        |
|                     |                                        | TISCO                                 | TATA STEEL                                  |
|                     |                                        | VIZAG                                 | RINL                                        |
|                     |                                        | JSW                                   | JSW                                         |
|                     |                                        | Apollo                                | APL Apollo                                  |
| 2                   | M.S.Pipes / Tubes and Hollow sections. | SAIL                                  | SAIL                                        |
|                     |                                        | TISCO                                 | TATA STEEL                                  |
|                     |                                        | METPRO                                | MKK Matel Section Pvt. Ltd.                 |
|                     |                                        | R.K. Steel                            | R.K. Steel Manufacturing Compnay Pvt. Ltd., |
|                     |                                        | Apollo                                | APL Apollo                                  |
|                     |                                        | Kalinga                               | Kalinga Tubes                               |
|                     |                                        | JINDAL                                | JSW                                         |
|                     |                                        | Nezone                                | Nezone Tubes Limited                        |
|                     |                                        | Salem                                 | SAIL                                        |
|                     |                                        | Jindal                                | JSW                                         |

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| 3                     | Stainless steel pipes / sections            | SAIL              | SAIL                                        |
|                       |                                             | KINGSTON          | KINGSTON Brass                              |
|                       |                                             | Connect           | Connect Ltd.                                |
|                       |                                             | Ark               | Ark Product Pvt. Ltd                        |
| 4                     | Stainless steel Bolts, washers, nuts        | Kundan            | Kundan Industires Ltd                       |
|                       |                                             | Pooja             | Pooja Steel Corporation                     |
|                       |                                             | Atul              | Atul fasteners Ltd                          |
|                       |                                             | Hilti             | Hilti India Pvt. Ltd                        |
| 5                     | Stainless steel pressure plate screws       | Kundan            | Kundan Industires Ltd                       |
|                       |                                             | Pooja             | Pooja steel corporation                     |
|                       |                                             | Atul              | Atul fasteners Ltd                          |
| 6                     | Welding rods                                | Advani            | Advani oerlikon Ltd.                        |
|                       |                                             | ESAB              | ESAB India Pvt. Ltd                         |
| 7                     | Metal Deck Sheet                            | TATA              | TATA STEEL                                  |
|                       |                                             | SAIL              | SAIL                                        |
| 8                     | Shear Stud/ Connector                       | KOCO              | KOSTER & Co.                                |
| 9                     | Steel Windows/Pressed Steel Frames          | Madhu Industries, | Madhu Industries, San Harvic, NCL           |
|                       |                                             | San Harvic,       | San Harvic                                  |
|                       |                                             | NCL               | NCL Industries                              |
| 10                    | MS Precision Tubes (cold seamless pipes)    | R.K. Steel        | R.K. Steel Manufacturing Compnay Pvt. Ltd., |
| <b>SUB HEAD No.11</b> |                                             |                   |                                             |
| <b>FLOORING</b>       |                                             |                   |                                             |
| 1                     | Vitrified tiles & Bath room anti-skid tiles | Asian (AGL)       | Asian Granite India Ltd                     |
|                       |                                             | NITCO             | NITCO Ltd                                   |
|                       |                                             | RAK               | RAK Ceramic India Pvt Ltd.                  |
|                       |                                             | Restile           | Restile Ceramic Ltd.                        |
|                       |                                             | Kajaria           | Kajaria Ceramic Ltd                         |
|                       |                                             | Somany            | Somany Ceramic Ltd                          |
|                       |                                             | Jhonson           | Prism Jhonson Ltd                           |
|                       |                                             | Orient Bell       | Orient Bell Ltd                             |
|                       |                                             | VarmoraGranito    | VarmoraGranito Granite Pvt. Ltd             |
|                       |                                             | Oasis             | Oasis Vitrified Pvt. Ltd.                   |
|                       |                                             | Naveen            | Murudeshwar Ceramics Ltd.,                  |
|                       |                                             | Anuj              | Aravid Ceramic Industries Ltd               |
|                       |                                             | Astra             | Astra Tile and Pavers Company.              |
|                       |                                             | Viero             | Aparna Tiles                                |
|                       |                                             | Aparna Vitero     | Aparna Enterprises Ltd.                     |
|                       |                                             | Asian (AGL)       | Asian Granite India Ltd                     |
|                       |                                             | NITCO             | NITCO Ltd                                   |

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| 2 | Glazed Wall Ceramic Tiles       | RAK                     | RAK Ceramic India Pvt Ltd.         |
|   |                                 | Kajaria                 | Kajaria Ceramic Ltd                |
|   |                                 | Somany                  | Somany Ceramic Ltd                 |
|   |                                 | Jhonson                 | Prism Jhonson Ltd                  |
|   |                                 | Orient Bell             | Orient Bell Ltd                    |
|   |                                 | VarmoraGranito          | VarmoraGranito Granite Pvt. Ltd    |
|   |                                 | Oasis                   | Oasis Vitrified Pvt. Ltd.          |
|   |                                 | Naveen                  | Murudeshwar Ceramics Ltd.,         |
|   |                                 | Anuj                    | Aravid Ceramic Industries,Ltd      |
| 3 | Synthetic Sports Track flooring | Armstrong               | Armstrong flooring                 |
|   |                                 | LG                      | LG Hausys India                    |
|   |                                 | Wondorfloor             | RMG Polyvinyl India Ltd.           |
| 4 | Linoleum sports flooring        | Armstrong               | Armstrong flooring India Pvt Ltd.  |
|   |                                 | Forbo                   | Forbo flooring India Pvt. Ltd.     |
|   |                                 | Gerflor                 | Gerflor flooring                   |
| 5 | False flooring                  | Hewetson                | Hewetson India                     |
|   |                                 | Unifloor                | UnifloorIndia Ltd                  |
|   |                                 | Unitile                 | Unitile office systems Pvt. Ltd    |
|   |                                 | Kebao                   | Inner Space (Distributors)         |
|   |                                 | Access floor system     | Access Floor System                |
|   |                                 | PINNACLE                | PINNACLE                           |
| 6 | Engineered wooden flooring      | Armstrong               | Armstrong flooring                 |
|   |                                 | Werner                  | Durafloorwerner GmbH               |
|   |                                 | Pergo                   | Redfloor India                     |
|   |                                 | Mikasa Real wood floors | Green Lam Industries               |
|   |                                 | New wood                | New Wood india ltd                 |
| 7 | Cement concrete parking tiles   | NITCO                   | NITCO Ltd                          |
|   |                                 | Poddar                  | Poddar Udyog                       |
|   |                                 | Eurocon                 | Eurocon tiles India                |
|   |                                 | Dazzle                  | Dazzle Designer tiles Pvt Ltd      |
|   |                                 | Ultra                   | Ultra tile private Ltd.            |
|   |                                 | Anuj                    | Aravid Ceramic Industries Limited, |
|   |                                 | Asttra                  | Asttra Tile and Pavers Company.    |
|   |                                 | NTC                     | NTC Parking tiles                  |
|   |                                 | Hindustan tiles         | Hindustan tiles, Ranchi Pune       |
| 8 | Synthetic Carpet tiles          | TOLI                    | TOLI corporation                   |
|   |                                 | Hollitex                | Hollitexcarper tiles               |
|   |                                 | Standard Carpets        | Standard Carpets                   |
| 9 | Vitrified paving tiles          | PAVIT                   | PAVIT ceramics Pvt Ltd.            |
|   |                                 | Italia                  | Tile Italia mosaics Pvt Ltd.       |

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| 10             | Glass mosaic tiles                         | Palladio                | Palladio Mosaics               |
|                |                                            | Bisazza                 | Bisazza Italy                  |
|                |                                            | Coral                   | Coral tiles                    |
|                |                                            | Mridul                  | Mridul tiles                   |
|                |                                            | Birla White             | Birla Corportion Ltd.          |
|                |                                            | JK White                | JK Cement Ltd.                 |
|                |                                            | PAVIT (Eco Tile)        | PAVIT Ceramics Pvt Ltd.        |
| 11             | White Cement                               | ACC                     | ACC Cements Ltd                |
|                |                                            | Birla                   | Birla Corportion Ltd.          |
|                |                                            | JK White                | JK Cement Ltd.                 |
| 12             | PVC Flooring                               | LG Hausys               | LG Hausys                      |
|                |                                            | Ger flor                | Gerflor flooring               |
|                |                                            | Armstrong               | Armstrong World Industries     |
| 13             | Grass Paver                                | Unistone                | Unistone                       |
|                |                                            | Ultra                   | Ultra Ltd.                     |
| SUB HEAD No.12 |                                            |                         |                                |
| ROOFING        |                                            |                         |                                |
| 1              | Roof Tiles (for Temperature reduction)     | PAVIT (Eco Tile)        | PAVIT Ceramics Pvt Ltd.        |
|                |                                            | Anuj                    | Aravid Ceramic Industries,Ltd  |
| 2              | Thermal Insulation treatment               | Elastospray             | BASF                           |
|                |                                            | Pidilite                | Pidilite industries            |
|                |                                            | Rock India Pvt.LTd      | Rock India Pvt.Ltd             |
|                |                                            | Weathercoat Kool & Seal | Berger Paints                  |
| 3              | Acoustic Insulation                        | Twingerinsul            | U.P.Twigafiber glass Ltd       |
|                |                                            | Lloyd Insulation        | Lloyd Insulation (India ) Ltd  |
|                |                                            | Saint Gobain Gyproc     | Saint GobainGyproc India       |
|                |                                            | Himalyan Acoustics      | Himalyan Acoustics             |
|                |                                            | Knauf                   | Knauf Gypsum India Pvt. Ltd.   |
|                |                                            | Anutone                 | Anutone Acoustics Ltd.         |
| 4              | UPVC Pipes and fittings (Rain water pipes) | Supreme                 | Superme Industries Ltd.        |
|                |                                            | Prince                  | Prince pipes and fittings Ltd. |
|                |                                            | Finolex                 | Finolex Industries Ltd.        |
|                |                                            | Prepoly                 | Premier PVC Industry           |
|                |                                            | Ajay                    | Ajay Industrial Corporation    |
|                |                                            | Sharon                  | Sharon Extrusions              |
|                |                                            | Vectus                  | Vectus                         |
|                |                                            | Prayag                  | PrayagPolimers (P) Ltd.        |
|                |                                            | Astral                  | Astral polytechnik Ltd.        |
|                |                                            | Ashirwad                | Ashirwad PVC Pipes             |
|                |                                            | Flow Guard              | Flow Guard                     |
|                |                                            | Truflow                 | HSIL Ltd of Hindware           |

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| 5                   | Sandwich PUF panelled roofing sheets                                            | Lloyd Insulation      | Lloyd Insulation (India ) Ltd                           |
|                     |                                                                                 | JINDAL MECTEC/ JINDAL | Mectec Pvt. Ltd                                         |
|                     |                                                                                 | Danpalon              | Danapal Light architecture                              |
|                     |                                                                                 | GE Plastic            | GE Silicones                                            |
|                     |                                                                                 | LEXAN                 | LEXAN Ltd                                               |
| 6                   | Polycorbanate Roof Sheets                                                       | Danpalon              | Danapal Light architecture                              |
|                     |                                                                                 | Alcox                 | HindegganAlcox Ltd.                                     |
|                     |                                                                                 | Polygal               | Polygal India Pvt Ltd.                                  |
|                     |                                                                                 | MG Polyplast          | MG Polyplas                                             |
|                     |                                                                                 | GE Lexon              | GE Silicones                                            |
| 7                   | False ceilings                                                                  | Aerolite              | Andhra Polimers Pvt. Ltd.                               |
|                     |                                                                                 | Anutone               | AnutoneAccoustics Ltd.                                  |
|                     |                                                                                 | Armstrong             | Armstrong World Industries                              |
|                     |                                                                                 | Ramco                 | Ramco Industries Ltd.                                   |
|                     |                                                                                 | Knauf                 | Knauf Gypsum India Pvt. Ltd.                            |
|                     |                                                                                 | Himalyan Acoustics    | Himalyan Acoustics                                      |
|                     |                                                                                 | Saint Gobain Gyproc   | Saint GobainGyproc India                                |
|                     |                                                                                 | Gridsquare            | Gridsquare Ceilings                                     |
|                     |                                                                                 | USG Boral             | USG Boral                                               |
|                     |                                                                                 | Hunter Dougals        | Hunter Dougals                                          |
| 8                   | False Ceiling Members (Perimeter, Ceiling section, intermediates, angles etc.,) | Armstrong             | Armstrong World Industries                              |
|                     |                                                                                 | Gypframe steel        | British Gypsum                                          |
|                     |                                                                                 | Knauf                 | Knauf Gypsum India Pvt. Ltd.                            |
|                     |                                                                                 | Saint Gobain          | Saint Gobain Gyproc                                     |
|                     |                                                                                 | Aerolite              | Andhra Polymers Pvt. Ltd./Aerolite Industries Pvt. Ltd. |
|                     |                                                                                 | Gridsquare            | Gridsquare Ceilings                                     |
|                     |                                                                                 | Hunter Dougals        | Hunter Dougals                                          |
| 9                   | Non Asbestos fiber sheet (Cement Roofing Sheets)                                | Charminar Fortune     | HIL Ltd (CK Birla Group)                                |
| 10                  | Galvolume sheet for roofing, cladding, Sandwich panel                           | Llyod Metal Craft     | Llyod Insulations.                                      |
|                     |                                                                                 | Tata Blue Scope       | Tata Bluescope                                          |
|                     |                                                                                 | Bhushan               | Bhushan steel                                           |
|                     |                                                                                 | JSW                   | JSW                                                     |
|                     |                                                                                 | Essar                 | Essar group                                             |
| SUB HEAD No.13 & 14 |                                                                                 |                       |                                                         |
| FINISHING           |                                                                                 |                       |                                                         |
|                     |                                                                                 | Premium gloss enamel  | Asian paint Ltd                                         |

|   |                                                              |                                      |                                   |
|---|--------------------------------------------------------------|--------------------------------------|-----------------------------------|
| 1 | Synthetic enamel Paint                                       | Dulux                                | ICI dulux Ltd                     |
|   |                                                              | Nerolac                              | NerolacPaints Ltd                 |
|   |                                                              | Berger                               | Berger Paints                     |
|   |                                                              | Nippon                               | Nippon Paint India Ltd.           |
|   |                                                              | Surfa Coats                          | Surfacoats Pvt. Ltd.              |
| 2 | Pink primer                                                  | Wood primer                          | Asian paint                       |
|   |                                                              | Dulux                                | ICI dulux                         |
|   |                                                              | Nerolac                              | NerolacKansiaNerolac Paints Ltd., |
|   |                                                              | Berger                               | Berger Paints                     |
|   |                                                              | Nippon                               | Nippon                            |
| 3 | Red Oxide Zinc Chromate primer                               | High performance yellow metal primer | Asian paint                       |
|   |                                                              | Dulux                                | ICI dulux                         |
|   |                                                              | Nerolac                              | Nerolac                           |
|   |                                                              | Berger                               | Berger Paints                     |
|   |                                                              | Nippon                               | Nippon                            |
| 4 | Oil Bound Distemper                                          | Asian                                | Asian paint                       |
|   |                                                              | Dulux                                | ICI dulux                         |
|   |                                                              | Nerolac                              | Nerolac                           |
|   |                                                              | Berger                               | Berger Paints                     |
|   |                                                              | Nippon                               | Nippon                            |
|   |                                                              | mGPolyplast                          | Nerolac                           |
| 5 | Acrylic emulsion                                             | Asian                                | Asian paint                       |
|   |                                                              | Dulux                                | ICI dulux                         |
|   |                                                              | Nerolac                              | Nerolac                           |
|   |                                                              | Berger                               | Berger Paints                     |
|   |                                                              | Nippon                               | Nippon                            |
|   |                                                              | Surfa Coats                          | Surfacoats Pvt. Ltd.              |
| 6 | Water Proof Cement paint                                     | Asian external wall primer           | Asian paint                       |
|   |                                                              | Berger                               | Berger Paints                     |
|   |                                                              | Surfa                                | Surfacoats (India) Pvt. Ltd.      |
|   |                                                              | Cem Colour                           | Snowcem Paints                    |
|   |                                                              | ICI DULUX                            | ICI DULUX                         |
| 7 | Acrylic smooth exterior paint                                | Apex                                 | Asian paint                       |
|   |                                                              | Dulux                                | ICI dulux                         |
|   |                                                              | Nerolac                              | Nerolac                           |
|   |                                                              | Berger                               | Berger                            |
|   |                                                              | Nippon                               | Nippon                            |
|   |                                                              | Surfa Coats                          | Surfa Coats Pvt. Ltd              |
| 8 | Premium Acrylic smooth exterior paint with silicon additives | ULTIMA                               | Asian paint                       |
|   |                                                              | Dulux                                | ICI dulux                         |
|   |                                                              | Nerolac                              | Nerolac                           |
|   |                                                              | Berger                               | Berger                            |
|   |                                                              | Nippon                               | Nippon                            |

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|    |                                | Surfex Rain Shield           | Surfacoats                      |
| 9  | Cement based wall putty        | J.K.wall putty               | J.K. Cement Ltd.                |
|    |                                | Birla wall case              | Birla Cements Ltd.,             |
|    |                                | Asian paints                 | Asian paints Ltd                |
|    |                                | Altek                        | NCL Alltek&seccold Ltd.         |
|    |                                | Birla Hil                    | HIL Ltd (CK Birla Group)        |
|    |                                | Berger                       | Berger                          |
|    |                                | Ardex Endura                 | Ardex Endura India Pvt. Ltd.    |
|    |                                | Ferrous Crete                | Ferrous Crete (India) Pvt. Ltd. |
| 10 | Acrylic textured plaster       | Apex Duracast                | Asian paints                    |
|    |                                | Spectrum paints              | Spectrum paints Ltd.            |
|    |                                | Heritage                     | Heritage Rajkamal Group         |
|    |                                | Asian paints                 | Asian Paints                    |
|    |                                | Neroloc                      | Neroloc                         |
| 11 | Ready mix cement plaster       | Wall plast                   | Wall plast products Pvt Ltd.    |
|    |                                | ReadiPlast                   | Ultratech cements Ltd.          |
|    |                                | Ramco super plaster melamine | Ramco cements Ltd.              |
|    |                                | Gyproc Plasters              | Saint GobainGyproc India        |
|    |                                | Ultra tech                   | Ultra tech Cement Ltd.          |
|    |                                | Knauf                        | Knauf Gypsum India Pvt. Ltd.    |
|    |                                | Ferrous Crete                | Ferrous Crete (India) Pvt. Ltd. |
| 12 | Melamine Polish                | Asian paints                 | Asian paints                    |
|    |                                | Polycure                     | Polycuremalaysia                |
|    |                                | Melamine Gold wudfin         | Pidilite industries             |
| 13 | Fire retardant paint           | Jotun                        | Jotun paints                    |
|    |                                | Hilti                        | Hilti India                     |
|    |                                | Akzonobel                    | DuluxAkzonobel Paints           |
|    |                                | Asian Paints                 | Asian Paints                    |
|    |                                | STPL Ltd.                    | STPL Ltd.                       |
| 14 | Anticorrosive bitumastic paint | Berger                       | Berger paints India Ltd.        |
|    |                                | Shalimar                     | Shalimar paints India Ltd.      |
|    |                                | IS 158 bituminous black      | Asian Paints                    |
| 15 | Cement Primer                  | Asian paints                 | Asian paints                    |
|    |                                | JK Primaxx                   | JK Cement Ltd.                  |
|    |                                | Berger                       | Berger paints India Ltd.        |
| 16 | Epoxy paint                    | Asian epoxy                  | Asian paints                    |
|    |                                | Berger                       | Berger paints India Ltd.        |
|    |                                | Shalimar                     | Shalimar paints                 |
|    |                                | STP Ltd.                     | Shalimar Tar Products           |
|    |                                | Ardex Endura                 | Ardex Endura India Pvt. Ltd.    |



|    |                                                                            |                 |                                          |
|----|----------------------------------------------------------------------------|-----------------|------------------------------------------|
|    |                                                                            | Mapecoat L24    | MAPEI Construction Products India P Ltd. |
|    |                                                                            | Nerolac         | Nerolac                                  |
|    |                                                                            | Sun Epoxy Paint | Sunanda Speciality Coatings Pvt,Ltd      |
| 17 | Epoxy coating                                                              | BASF            | BASF India Ltd.                          |
|    |                                                                            | Fosroc          | Fosroc India                             |
|    |                                                                            | Laticrete       | MYK Laticrete India                      |
|    |                                                                            | Ardex Endura    | Ardex Endura India Pvt. Ltd.             |
|    |                                                                            | Mapecoat DW25   | MAPEI Construction Products India P Ltd. |
|    |                                                                            | Ferrous Crete   | Ferrous Crete (India) Pvt. Ltd.          |
|    |                                                                            | Sun Epoxy Paint | Sunanda Speciality Coatings Pvt,Ltd      |
| 18 | Silicon coating                                                            | Dow corning     | Dow corning India                        |
|    |                                                                            | BASF            | BASF India Ltd.                          |
|    |                                                                            | GE              | GE Silicones                             |
|    |                                                                            | Wacker          | Wacker silicones.                        |
| 19 | Textured acrylic Exterior Paint                                            | Asian epoxy     | Asian paints                             |
|    |                                                                            | Berger          | Berger paints India Ltd.                 |
|    |                                                                            | Surfa Coats     | Surfa Coats, Pvt. Ltd.,                  |
|    |                                                                            | Akzonobel       | Akzonobel                                |
|    |                                                                            | Ebco            | Ebco                                     |
|    |                                                                            | Neroloc         | NerolocPaints Ltd                        |
| 20 | Ready made/ Gypsum Plaster                                                 | Ferrous Crete   | Ferrous Crete (India) Pvt. Ltd.          |
|    |                                                                            | Gyproc Cute 100 | Gyproc India                             |
|    |                                                                            | Ultrtech        | Ultratech cements Ltd.                   |
| 21 | PU Enamel Metallic Paints on MS Structure & Epoxy paints (Premium Quality) | SKK             | SKK Ltd.                                 |
|    |                                                                            | Akzonobel       | Akzonobel                                |
|    |                                                                            | Asian           | Asian Paints                             |
|    |                                                                            | Berger,         | Berger paints India Ltd.                 |
|    |                                                                            | MRF             | MRF Paints                               |
| 22 | PU Coating (UV Resistant Liquid Applied Coating)                           | Smart Care      | Asian Paints                             |
|    |                                                                            | Pidilite        | Pidilite Industries                      |
|    |                                                                            | BASF            | BASF                                     |
|    |                                                                            | Fosroc          | Fosroc India                             |
|    |                                                                            | SIKA            | SIKA India                               |
|    |                                                                            | PURoofcoat      | Berger Paints                            |

|                        |                                                    |                         |                                 |
|------------------------|----------------------------------------------------|-------------------------|---------------------------------|
| 23                     | High end Exterior Textures                         | Allura/Graniza Range    | Asian Paints                    |
|                        |                                                    | SKK Brand               | SKK Ltd.                        |
|                        |                                                    | Berger                  | Berger paints India Ltd.        |
| SUB HEAD No.16         |                                                    |                         |                                 |
| ROAD WORK              |                                                    |                         |                                 |
| 1                      | Interlocking Concrete Paver Blocks                 | Dazzle                  | Dazzle designer tiles (P) Ltd.  |
|                        |                                                    | Ultra                   | Ultra tiles Pvt Ltd.,           |
|                        |                                                    | Shree                   | Shree Bharat Paver blocks       |
|                        |                                                    | Hindustan tiles         | Hindustan tiles, Ranchi Pune    |
|                        |                                                    | Vyara tiles             | VYARA TILES Pvt Ltd., / Surat   |
|                        |                                                    | Basant Betons           | Basant Betons                   |
|                        |                                                    | Astrra                  | Astrra Tile and Pavers Company. |
|                        |                                                    | NITCO (ROCKARD)         | NITCO                           |
|                        |                                                    | BHARAT (NILSAN)         | Bharat                          |
|                        |                                                    | REGENCY                 | Regency                         |
| 2                      | Solar studs/ Median markers                        | 3M                      | 3M Science                      |
|                        |                                                    | Avery Dennison          | Avery Dennison India Pvt Ltd.   |
|                        |                                                    | Nikkalite               | Nippon carbideIndustires (USA)  |
| 3                      | Polycarbonate Convex mirrors, Rubberised road hump | Unique safety solutions | Unique safety solutions         |
| SUB HEAD No.17         |                                                    |                         |                                 |
| SANITARY INSTALLATIONS |                                                    |                         |                                 |
| 1                      | Mirrors                                            | Modi Guard              | Gujarat Guardian Ltd.           |
|                        |                                                    | Saint Gobain            | Saint Gobain Glass India Ltd.,  |
|                        |                                                    | AIS mirror              | Asahi India glass Ltd,          |
|                        |                                                    | Atul                    | Atul glass Industries Ltd.,     |
|                        |                                                    | CERA                    | CERA Sanitaryware Ltd.,         |
| 2                      | Vitreous Commodes/ Washbasin                       | Hindware                | HSIL Ltd,                       |
|                        |                                                    | Roca                    | ROCA Bath room products         |
|                        |                                                    | Parryware               | ROCA Bath Pvt. Ltd.,            |
|                        |                                                    | Kohler                  | Kohler world wide               |
|                        |                                                    | Somany                  | Somany Ceramic Ltd,             |
|                        |                                                    | Golf Ceramics (Prayag)  | Golf Ceramics limited           |
|                        |                                                    | NEYCER                  | NEYCER India Ltd.,              |
|                        |                                                    | CERA                    | CERA Sanitaryware Ltd.,         |

|   |                              |                |                                         |
|---|------------------------------|----------------|-----------------------------------------|
|   |                              | Rak Ceramics   | RakCeramics India Pvt. Ltd              |
|   |                              | Jaquar         | Jaquar Group                            |
|   |                              | Bathsense      | Asian Paints                            |
| 3 | Flushing Cistern with EWC/WC | Parryware      | ROCA Bath Pvt. Ltd.,                    |
|   |                              | Shakti         | Shakti Enterprises                      |
|   |                              | Hindware       | HSIL Ltd,                               |
|   |                              | Rak Ceramics   | RakCeramics India Pvt. Ltd              |
|   |                              | CERA           | CERA Sanitaryware Ltd.,                 |
|   |                              | Kohler         | Kohler world wide                       |
|   |                              | Jaquar         | Jaquar Group                            |
|   |                              | Bathsense/TECE | Asianpaints Ltd.                        |
| 4 | Urinals                      | Parryware      | ROCA Bath Pvt. Ltd.,                    |
|   |                              | Shakti         | Shakti Enterprises                      |
|   |                              | Hindware       | HSIL Ltd,                               |
|   |                              | CERA           | CERA Sanitaryware Ltd.,                 |
|   |                              | Rak Ceramics   | RakCeramics India Pvt. Ltd              |
| 5 | SWR / UPVC Pipes& fittings   | Supreme        | SupermeIndustires Ltd.                  |
|   |                              | Astral         | Astral polytechnik Ltd.                 |
|   |                              | Finolex        | Finolex Industries Ltd.,                |
|   |                              | Ajay           | Ajay Industries Ltd.                    |
|   |                              | Vectus         | Vectus Industries Ltd.,                 |
|   |                              | Prince         | Prince Pipes and fittings               |
|   |                              | Prayag         | Prayag polymers Pvt Ltd.,               |
|   |                              | Sentini        | SentiniFloppipes, India Private Ltd.    |
|   |                              | Birla Hil      | HIL Ltd (CK Birla Group)                |
|   |                              | Astral         | Astral Poly Technik Limited,            |
|   |                              | Flowgard       | Ashirwad PVC Pipes                      |
|   |                              | Truflow        | HSIL Ltd of Hindware                    |
| 6 | Stainless Steel Kitchen sink | Jhonson        | PrisionJhonson Ltd.,                    |
|   |                              | Diamond        | Pheonix Appliances Pvt. Ltd.            |
|   |                              | Jindal         | Centuarypolytech                        |
|   |                              | Kingston       | Kingston brass India                    |
|   |                              | Nirali         | Jyoti (India) matel Industries Pvt Ltd. |

|                |                                                                 |                         |                                             |
|----------------|-----------------------------------------------------------------|-------------------------|---------------------------------------------|
|                |                                                                 | Hindware                | HSIL Ltd                                    |
|                |                                                                 | Silver shine            | Blue stone sanitary Industries Pvt. Ltd.    |
|                |                                                                 | Prayag                  | PrayagPolimers (P) Ltd.                     |
|                |                                                                 | Navkar                  | Shri Navkar Metals Ltd.                     |
|                |                                                                 | Futura                  | Futura Kitchen Sinks India Pvt. Ltd.        |
|                |                                                                 | CERA                    | CERA Sanitaryware Ltd.,                     |
|                |                                                                 | Nilkanth                | Nilkant                                     |
|                |                                                                 | Joyna                   | Joyna                                       |
|                |                                                                 | Franke                  | Franke India Ltd.                           |
| 7              | Sensor Based Auto flush Systems                                 | AOS Systems,,           | AOS Systems                                 |
|                |                                                                 | TOTO                    | TOTO Ltd                                    |
|                |                                                                 | Parryware,              | Parryware                                   |
|                |                                                                 | Hindware,               | HSIL Ltd                                    |
|                |                                                                 | Grohe,                  | Grohe                                       |
|                |                                                                 | Jaquar                  | Jaquar Group                                |
|                |                                                                 | Kochier                 | Kochier                                     |
| 8              | Centrifugally Caste (Spun) Iron Soil waste, Pipes and fittings. | Neco                    | JayaswalNeco Ltd                            |
|                |                                                                 | RPMF                    | Raj Pattern Makers and Founders Pvt. Ltd.   |
|                |                                                                 | SKF brand               | SKF Industries                              |
|                |                                                                 | HEPCO                   | Hepco                                       |
|                |                                                                 | Bengal Iron Corporation | Bengal Iron Corporation                     |
|                |                                                                 | HIF                     | M/s.Babulal Bajaj Iron Foundry              |
| 9              | Modular Kitchen / Wardrobes/Hardware and Accesseries            | Sleek                   | Asian Paints                                |
|                |                                                                 | Godrej                  | Godrej & Boyce Co.                          |
|                |                                                                 | Spacewood               | Spacewood                                   |
|                |                                                                 | Evoke                   | Evoke                                       |
| SUB HEAD No.18 |                                                                 |                         |                                             |
| WATER SUPPLY   |                                                                 |                         |                                             |
| 1              | PE-AL-PE Composite pipes                                        | Kitec                   | Kitec Industries (India) Pvt. Ltd.          |
| 2              | G I Pipes                                                       | TATA                    | TATA Steel Ltd.,                            |
|                |                                                                 | Zenith                  | Zenith Birla (India) Ltd.                   |
|                |                                                                 | Jindal                  | Jindal Pipes Ltd.,                          |
|                |                                                                 | R.K. Steel              | R.K. Steel Manufacturing Compnay Pvt. Ltd., |
|                |                                                                 | HISSAR                  | HISSAR                                      |
|                |                                                                 | Apollo                  | APL Apollo                                  |
|                |                                                                 | Zoloto                  | Zoloto Industries                           |

|   |                                                                                                                                  |            |                                             |
|---|----------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------|
| 3 | G I Pipe fittings                                                                                                                | Unik       | Unikmalleables                              |
|   |                                                                                                                                  | HB         | HB Industries                               |
|   |                                                                                                                                  | ICS        | Sgreesamarth Engineers                      |
|   |                                                                                                                                  | R.K. Steel | R.K. Steel Manufacturing Compnay Pvt. Ltd., |
| 4 | Water supply Valves                                                                                                              | Zoloto     | Zoloto Industries                           |
|   |                                                                                                                                  | leader     | leader valves Ltd.,                         |
|   |                                                                                                                                  | ARCO       | Arco valves Pvt. Ltd.,                      |
|   |                                                                                                                                  | Nanda      | Nanda Miller company                        |
| 5 | CPVC pipes and fittings                                                                                                          | Supreme    | Supreme Industries Ltd.                     |
|   |                                                                                                                                  | Finolex    | FinolexIndustries Ltd.                      |
|   |                                                                                                                                  | Astral     | Astral Polytechnik Ltd.,                    |
|   |                                                                                                                                  | Prince     | Prince Pipes andfintings Ltd.,              |
|   |                                                                                                                                  | Ajay       | Ajay Industrial corporation                 |
|   |                                                                                                                                  | Prayag     | Prayag polymers Pvt Ltd.,                   |
|   |                                                                                                                                  | Vectus     | Vectus Industries Ltd.,                     |
|   |                                                                                                                                  | Truflo     | HIS Ltd.                                    |
|   |                                                                                                                                  | Anil       | Anil Thermoplastics Pvt. Ltd.               |
|   |                                                                                                                                  | Birla Hil  | HIL Ltd (CK Birla Group)                    |
|   |                                                                                                                                  | Sentini    | SentiniFlopipesIndi a Pvt. Ltd.             |
|   |                                                                                                                                  | Astral     | Astral Poly Technik Limited,                |
|   |                                                                                                                                  | Ashirwad   | Ashirwad PVC Pipes                          |
|   |                                                                                                                                  | Flowgard   | Flowgaurd                                   |
| 6 | PVC / HDPE water storage tanks                                                                                                   | Sintex     | Sintexplastic technology Ltd.,              |
|   |                                                                                                                                  | Vectus     | Vectus Industries Ltd.                      |
|   |                                                                                                                                  | Supreme    | Supreme Industries Ltd.                     |
| 7 | Watersupply fixtures like bibcock, Shower panels CP Brass fixtures like bibcock, angle cock , Piler Cock, mixtures,Showers etc., | Jaquar     | Jaquar Group                                |
|   |                                                                                                                                  | Parryware  | Roca bath room products Pvt. Ltd,           |
|   |                                                                                                                                  | Metro      | Metro sanitations Pvt. Ltd.,                |
|   |                                                                                                                                  | Waterman   | Kewal brothers                              |
|   |                                                                                                                                  | Seiko      | Seiko Sanitations                           |
|   |                                                                                                                                  | Prayag     | Prayag polymers Pvt Ltd.,                   |
|   |                                                                                                                                  | Kingston   | Kingston brass India                        |
|   |                                                                                                                                  | Johnson    | Prism Jhonson Ltd                           |
|   |                                                                                                                                  | Shakti     | Shakti Enterprises                          |
|   |                                                                                                                                  | CERA       | CERA Sanitaryware Ltd.,                     |
|   |                                                                                                                                  | MARC       | MARK Showers                                |
|   |                                                                                                                                  | HINDWare   | HSIL Ltd.                                   |
| 8 | Air release valve                                                                                                                | Kirloskar  | Kirloskar brothers Ltd.,                    |

|    |                                                                                         |                       |                                                         |
|----|-----------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------|
|    |                                                                                         | RBM                   | AFS Ltd.,                                               |
|    |                                                                                         | Kartar                | Kartar valves private Ltd.,                             |
| 9  | Centrifugally (Spun) Cast Iron pipes                                                    | Lanco                 | Electrosteel castings Ltd.                              |
|    |                                                                                         | Jindal                | Jindal saw Ltd.                                         |
|    |                                                                                         | Kesoram               | Kesoram Industries Ltd.                                 |
|    |                                                                                         | Electrosteel          | Electrosteel castings Ltd.                              |
| 10 | Spun cast iron fittings                                                                 | Neco                  | JayaswalNeco Ltd.                                       |
|    |                                                                                         | Kartar                | KartarValves Private Ltd.                               |
|    |                                                                                         | Electrosteel          | Electrosteel castings Ltd.                              |
|    |                                                                                         | Kapilansh Centrifugal | Kapilansh Dhatu Udyog(P)Ltd.                            |
|    |                                                                                         | SKF brand             | SINGHALIRON FOUNDRY Pvt. Ltd.,                          |
| 11 | CI double flange sluice valve                                                           | Kirloskar             | Kirloskar brothers Ltd.,                                |
|    |                                                                                         | RBM                   | AFS Ltd.,                                               |
|    |                                                                                         | Kartar                | Kartar valves private Ltd.,                             |
|    |                                                                                         | IVS                   | Indian valves private Ltd.,                             |
|    |                                                                                         | Zoloto                | Zolota Industries                                       |
|    |                                                                                         | Leader                | Leader valves Ltd.                                      |
|    |                                                                                         | BURN                  | BURN                                                    |
| 12 | CI double flanged non return valve                                                      | Kirloskar             | Kirloskar Brothers Ltd.,                                |
|    |                                                                                         | Fluidtech             | Fluidtech                                               |
|    |                                                                                         | Zolto                 | Zolota Industries                                       |
| 13 | Gun metal Valves                                                                        | Zolto                 | Zolota Industries                                       |
|    |                                                                                         | Leader                | Leader valves Ltd.                                      |
|    |                                                                                         | Sant                  | Sant valves Pvt Ltd,                                    |
|    |                                                                                         | Audco                 | L&T Valves                                              |
| 14 | PTMT/PVC water supply fittings like bibcocks, pillar cock, Angle valve, Stop Valve etc. | PEARL                 | Precision Products                                      |
|    |                                                                                         | Prayag                | Prayag Polymers (P) Ltd                                 |
|    |                                                                                         | Supreme               | Supreme Industries                                      |
| 15 | Float Valve (Ball Valve)                                                                | Prayag,               | Prayag Polymers (P) Ltd                                 |
|    |                                                                                         | Leader,               | Leader valves Ltd.                                      |
|    |                                                                                         | Zoloto,               | Zolota Industries                                       |
|    |                                                                                         | IBP                   | IBP Industries                                          |
|    |                                                                                         | Arco                  | Arco valves Pvt. Ltd.,                                  |
| 16 | HDPE pipes                                                                              | DEC                   | D.E.C Infrastructure & Project (India) Prviate Limited. |

|                       |                                                                                                                                  |                       |                                                       |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------|
| <b>SUB HEAD No.19</b> |                                                                                                                                  |                       |                                                       |
| <b>DRAINAGE</b>       |                                                                                                                                  |                       |                                                       |
| 1                     | * RCC Pipes                                                                                                                      | Indian Hume Pipe      | Indian Hume Pipe Ltd.,                                |
|                       |                                                                                                                                  | Jain & Co             | Jain spun pipes Co.,                                  |
|                       |                                                                                                                                  | Lakshmi Sood&Sood     | Lakshmi Sood&Sood Pipe Co.                            |
|                       | (*) Madurai spun pipes has been discontinued from the approved list as they have confirmed that they do not possess BIS license. |                       |                                                       |
| 2                     | CI Manhole cover                                                                                                                 | Neco                  | JayaswalNeco Ltd.,                                    |
|                       |                                                                                                                                  | BIC                   | Bengal iron corporation                               |
|                       |                                                                                                                                  | DEC                   | DEC Infrastructure & Project (India) Private Limited. |
|                       |                                                                                                                                  | HEPCO                 | Binay Udyog Pvt. Ltd.                                 |
| 3                     | SFRC Cover and grating                                                                                                           | KK                    | KK Manhole and gratings Co Pvt Ltd.,                  |
|                       |                                                                                                                                  | Advent                | Advent concrete vision                                |
|                       |                                                                                                                                  | Nu-TEC                | Nu-Tech concrete products (P) Ltd.,                   |
|                       |                                                                                                                                  | Kutty                 | Kutty Industries                                      |
|                       |                                                                                                                                  | DEC                   | DEC I & P India Pvt.Ltd.                              |
| 4                     | Plastic Encapsulated Foot Rest                                                                                                   | KK India              | KK Manhole and gratings Co Pvt Ltd.,                  |
|                       |                                                                                                                                  | KGM                   | KGM Exports .                                         |
|                       |                                                                                                                                  | Accurate Buildcon     | Accurate Buildcon company.                            |
| 5                     | Spun cast iron covers & gratings                                                                                                 | Neco                  | JayaswalNeco Ltd                                      |
|                       |                                                                                                                                  | Jagannath             | Sri Jagannath Iron Foundry Pvt. Ltd.                  |
|                       |                                                                                                                                  | Kapilansh Centrifugal | Kapilansh Dhatu Udyog(P)Ltd.                          |
|                       |                                                                                                                                  | SKF brand             | SINGHALIRON FOUNDRY Pvt. Ltd.,                        |
| <b>SUB HEAD No.21</b> |                                                                                                                                  |                       |                                                       |
| <b>ALUMINIUM WORK</b> |                                                                                                                                  |                       |                                                       |
| 1                     | Aluminium doors/windows sections                                                                                                 | Hindalco              | Hindalco Industries Ltd.,                             |
|                       |                                                                                                                                  | jindal                | jindalAluminium Ltd.,                                 |
|                       |                                                                                                                                  | Bhoruka               | BhorukaAluminium Ltd.,                                |
|                       |                                                                                                                                  | Indal                 | Indian Aluminium Ltd.,                                |
|                       |                                                                                                                                  | Padmavathi Extrusion  | Padmavathi Extrusion Private Ltd.                     |
|                       |                                                                                                                                  | Hydro                 | Hydro Extrusion                                       |
|                       |                                                                                                                                  | Omalco Extrusion      | Omalco Extrusion Pvt. Ltd.                            |
|                       |                                                                                                                                  | Bhoruka               | BhorukaAluminium Ltd.,                                |
| 2                     | Aluminium systems/ Anodised                                                                                                      | Define                | Define Overseas Pvt.                                  |
|                       | aluminium fittings for doors/windows                                                                                             |                       | Ltd.                                                  |
|                       |                                                                                                                                  | Schueco               | SchuecoIndia Pvt. Ltd.,                               |

|                     |                                |                                    |                                  |
|---------------------|--------------------------------|------------------------------------|----------------------------------|
|                     |                                | Bhoruka                            | BhorukaAluminium Ltd.,           |
|                     |                                | Kawneer                            | Kawneer India                    |
|                     |                                | Hardima                            | Hardima sales corporation        |
|                     |                                | Everite                            | Everite Agencies                 |
|                     |                                | Sigma                              | Sigma Corporation                |
|                     |                                | Jyothi                             | Jyothi Industries                |
| 3                   | Friction stay hinges           | Earl Bihari                        | Earl Bihari Pvt. Ltd.            |
|                     |                                | KINLONG                            | Kinlong Industries               |
| 4                   | EPDM Gaskets                   | Anand                              | Anand NVH products (P) Ltd.,     |
|                     |                                | Roop                               | Roop Polymers Ltd.,              |
|                     |                                | Bohra                              | Bohra rubber Pvt Ltd.,           |
|                     |                                | Hanu                               | Hanu Industries                  |
|                     |                                | Amees Rubber                       | Amees Rubber Industries Pvt Ltd. |
| 5                   | Silicon Gaskets                | Sree Gaurav                        | Sree Gaurav Rubber products      |
| 6                   | Masking Tapes                  | 3M                                 | 3M                               |
|                     |                                | Sun                                | Sun                              |
|                     |                                | Wonder polymer                     | Wonder Tape Industries           |
|                     |                                | Roop                               | Roop Polymers Ltd.,              |
| 7                   | Rockwool/ Glasswool insulation | Twigafiber, ,                      | Twigaifiber glass ltd            |
|                     |                                | Llyod Insulation                   | Llyod Insulation Ltd.            |
|                     |                                | Supereme                           | Supereme Industries ltd          |
| 8                   | Aluminium Formwork             | MFE(MIVAN)                         | MIVAN                            |
|                     |                                | S-Form                             | S-Form                           |
|                     |                                | MFS                                | MFS                              |
| SUB HEAD No.22      |                                |                                    |                                  |
| WATER PROOFING WORK |                                |                                    |                                  |
| 1                   | Water proofing compound        | Fosroc                             | Fosroc India                     |
|                     |                                | Sika                               | Sika India                       |
|                     |                                | Dr. Fixit                          | PidiliteIndustires               |
|                     |                                | CICO                               | CICO Technologies Ltd.,          |
|                     |                                | Impermo                            | Snowcem paints                   |
|                     |                                | Accoproof                          | ACC cements Ltd.,                |
|                     |                                | Ardex Endura                       | Ardex Endura (India) Ltd         |
|                     |                                | Alchemica                          | Alchemica Ltd.                   |
|                     |                                | Ferrous Crete                      | Ferrous Crete (India) Pvt. Ltd.  |
|                     |                                | MYK Schomburg                      | MYK Arments range of products    |
|                     |                                | Penetron                           | Penetron India Pvt.Ltd           |
|                     |                                | Smart Care                         | Asian Paints                     |
|                     |                                | Cementmix Plus/Advanced Latex Plus | Berger Paints                    |
|                     |                                | Shaliplast LW+                     | STP Ltd                          |



|   |                                |                                            |                                                 |
|---|--------------------------------|--------------------------------------------|-------------------------------------------------|
|   |                                | Mapecure AS/Mapecure E 30/Mapecure ASE     | M/s MAPEI Constructions Product India Pvt. Ltd. |
|   |                                | KCPL                                       | Kunal Conchem Pvt. Ltd.,                        |
| 2 | Membrane Water proofing system | BASF                                       | BASF India Ltd.,                                |
|   |                                | STP Ltd                                    | STP Ltd                                         |
|   |                                | Texsa                                      | Texsa India Ltd                                 |
|   |                                | WR Grace                                   | WR Grace Co India Pvt Ltd,                      |
|   |                                | Dr. Fixit                                  | Pidilite Industries                             |
|   |                                | Alchemica                                  | Alchemica Ltd.                                  |
|   |                                | Hydro tech                                 | Hydro tech Ltd                                  |
|   |                                | Ferrous Crete                              | Ferrous Crete (India) Pvt. Ltd.                 |
|   |                                | MYK Schomburg                              | MYK Arments range of products                   |
|   |                                | Asian paints                               | Smart Care Water Proofing products              |
|   |                                | Ardex Endura                               | Ardex Endura Ltd                                |
|   |                                | Mapeplan TU S20/Planiseal 88/Planiseal 288 | M/s MAPEI Constructions Product India Pvt. Ltd. |
|   |                                | Elastorof PU/Sunroof PU/Sunkote            | Sunanda Speciality Coatings Pvt,Ltd             |
|   |                                | KCPL                                       | Kunal Conchem Pvt. Ltd.,                        |
| 3 | Chemical water proofing system | BASF                                       | BASF India Ltd.,                                |
|   |                                | MC-Bauchemie                               | MS-Bauchemie India Ltd.,                        |
|   |                                | Sika                                       | Sika India                                      |
|   |                                | Sunanda speciality coating                 | Sunanda speciality coating Pvt Ltd.             |
|   |                                | Perma construction Aid                     | Perma construction Aid Pvt Ltd,                 |
|   |                                | Fosroc                                     | Fosroc India                                    |
|   |                                | Dr. Fixit                                  | Pidilite Industries                             |
|   |                                | Ferrous Crete                              | Ferrous Crete (India) Pvt. Ltd.                 |
|   |                                | Smart Care                                 | Asian Paints                                    |
|   |                                | Latexshield 2K/Tankshield PW               | Berger Paints                                   |
|   |                                | KCPL                                       | Kunal Conchem Pvt. Ltd.,                        |
|   |                                |                                            |                                                 |
| 4 | Water stops                    | Hydrotite                                  | Sika India                                      |
|   |                                | BASF                                       | BASF India Ltd.,                                |
|   |                                | Dr. Fixit                                  | Pidilite Industries                             |
|   |                                | Hydroswell                                 | Sika India                                      |
|   |                                | Ardex Endura                               | Ardex Endura Ltd                                |
|   |                                | Ferrous Crete                              | Ferrous Crete (India) Pvt. Ltd.                 |
|   |                                | Smart Care                                 | Asian Paints                                    |
|   |                                | STP                                        | Shalimar Tar Products                           |

|                            |                                                              |                   |                                      |
|----------------------------|--------------------------------------------------------------|-------------------|--------------------------------------|
| 5                          | Atactic Polypropylene (APP)<br>Modified Water proof Membrane | Ferrous Crete     | Ferrous Crete (India)<br>Pvt. Ltd.   |
|                            |                                                              | Bitumat Co. Ltd,  | Bitumat Co. Ltd,                     |
|                            |                                                              | Pidilite          | PidiliteIndustries Ltd,              |
|                            |                                                              | Ardex Endura      | Ardex Endura                         |
|                            |                                                              | Hydrotech Ltd.    | Hydro tech Ltd                       |
|                            |                                                              | Smart Care        | Asian Paints                         |
|                            |                                                              | Proshield         | Berger Paints                        |
|                            |                                                              | IWL India Limited | IWL India Limited                    |
| 6                          | EPDM Water Proofing<br>Membrane                              | Smart Care        | Asian Paints                         |
|                            |                                                              | Ferrous Crete     | Ferrous Crete (India)<br>Pvt. Ltd.   |
|                            |                                                              | Pidilite          | Pidilite Industries                  |
|                            |                                                              | STP               | Shalimar Tar Products                |
|                            |                                                              | Fosroc            | Fosroc India                         |
| SUB HEAD No.25             |                                                              |                   |                                      |
| ALUMINIUM COMPOSITE PANELS |                                                              |                   |                                      |
| 1                          | Aluminium composite panels                                   | Alucobond         | 3A Composites India<br>Pvt.Ltd.      |
|                            |                                                              | Eurobond          | M/S Euro panel products<br>Pvt. Ltd. |
|                            |                                                              | Aludecor          | M/S Aludecor<br>Lamination Pvt. Ltd. |
|                            |                                                              | Reynobond         | Reynobond                            |
|                            |                                                              | Alpolic           | Alpolic                              |
|                            |                                                              | Alstrong          | Alstrong                             |
|                            |                                                              | Hynadecor         | Hynadecor AC Panels,<br>Delhi        |
|                            |                                                              | Alstone           | Alstone, New Delhi                   |
|                            |                                                              | Eurobond          | Eurobond Pvt. Ltd.,<br>Delhi         |
| 2                          | Structural Glazing                                           | Modi, ,           | Modi Guard                           |
|                            |                                                              | Saint Gobain      | Saint Gobain Glass<br>India Ltd.,    |
|                            |                                                              | Asahi,            | Asahi India glass Ltd,               |
|                            |                                                              | Glaverbel.        | Glaverbel India                      |
| 3                          | Spider Patch Fittings for<br>Structural Glazzing             | Dorma,,           | Dormakaba India Pvt.<br>Ltd          |
|                            |                                                              | Sevax             | Saint Gobain Glass<br>India Ltd.,    |
|                            |                                                              | ,Kich             | Kich India                           |
|                            |                                                              | ,Ozone            | Ozone Ltd                            |
|                            |                                                              | Hafele            | Hafele Ltd                           |
| MISELLANEOUS ITEMS         |                                                              |                   |                                      |
| 1                          | PVC Perforated Pipes                                         | Rex Polyextrusion | Rex Polyextrusion Ltd,               |
|                            |                                                              | Akash Enterprises | Akash Enterprises                    |
|                            |                                                              | Zenplas Pipes     | Zenplas Pipes Pvt. Ltd.,             |
|                            |                                                              | Supreme           | Supreme Industries                   |
| 2                          | Play Equipements                                             | Koochie Play      | Koochie Play<br>Systems Pvt. Ltd,    |
|                            |                                                              | Playworld Systems | Playworld Systems India              |
|                            |                                                              | Dow corning       | Dow corning India                    |

|    |                                        |                  |                                 |
|----|----------------------------------------|------------------|---------------------------------|
| 3  | Structural Sealant                     | Wacker           | Wacker Silicones.               |
|    |                                        | GE               | GE Silicones                    |
|    |                                        | Fosroc           | Fosroc India                    |
|    |                                        | BASF             | BASF India Ltd.,                |
|    |                                        | STP Ltd.         | Shalimar Tar Products           |
|    |                                        | Asian paints     | Smart Care Sealant              |
| 4  | Poly-sulphide sealant                  | Dr. Fixit        | Pidilite Industries Ltd,        |
|    |                                        | Chemetall-Raj    | BASF India Ltd.,                |
|    |                                        | Fosroc           | Fosroc India                    |
|    |                                        | Techseal         | Choksey Chemical Pvt. Ltd,      |
|    |                                        | Tuff seal        | Bondit construction Chemical    |
|    |                                        | Ferrous Crete    | Ferrous Crete (India) Pvt. Ltd. |
|    |                                        | MYK Schomburg    | MYK Arments range of products   |
|    |                                        | Pidilite         | Pidilite Industries             |
|    |                                        | STP Ltd.         | Shalimar Tar Products           |
|    |                                        | Smart Care       | Asian Paints                    |
| 5  | Bitumen Impregnated Board              | Shalitek         | STP Limited                     |
| 6  | Polyethylene backer rod                | Supreme          | Supreme Industries              |
| 7  | Epoxy                                  | Fosroc           | Fosroc India                    |
|    |                                        | Shalibons        | STP Limited                     |
|    |                                        | CICO Poxxy       | CICO Technologies Ltd.,         |
|    |                                        | Ardex            | ArdexEndura (India) Pvt. Ltd.,  |
|    |                                        | Ferrous Crete    | Ferrous Crete (India) Pvt. Ltd. |
|    |                                        | Asian paints     | Asian Paints                    |
| 8  | Weather / Structural Silicon sealent   | Dow corning      | Dow corning India               |
|    |                                        | Momentive (GE)   | GE Silicones                    |
| 9  | GRC Jali                               | Terrafirma       | Terrafirma GRC Industries       |
|    |                                        | Ecovision        | Ecovision Industries Pvt. Ltd., |
|    |                                        | Maresh GRC       | Maresh Prefab Pvt Ltd.,         |
| 10 | Air transfer grills                    | Cool grills      | Cool grills, Pune               |
|    |                                        | Systemair India  | Systemair India Pvt. Ltd.,      |
| 11 | Ply wood for concrete shuttering work. | Balajee ply      | Balajee ply product Pvt.Ltd     |
| 12 | Grass Paver                            | Unistone         | Unistone                        |
|    |                                        | Ultra            | Ultra Ltd.                      |
|    |                                        | Smart Care       | Asian Paints                    |
|    |                                        | Llyod Insulation | Llyod Insulation (India) Ltd.   |
|    |                                        | Fosroc           | Fosroc India                    |

|    |                                                                                                                   |                             |                                                 |
|----|-------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------|
| 13 | Puff Insulations                                                                                                  | BASF                        | BASF                                            |
|    |                                                                                                                   | Pidilite                    | Pidilite Industries Ltd.                        |
|    |                                                                                                                   | Supreme                     | Supreme ltd                                     |
| 14 | Wood polymer composite materials for Door frames and shutters, Plain/ pre laminated boards for wall linings etc., | Alstone                     | Alstone Industries Pvt. Ltd., Jaipur, Rajasthan |
|    |                                                                                                                   | Ecoste                      | Ecoste wood polymer composite, Delhi            |
|    |                                                                                                                   | Echon                       | Kumar Arch Tech Pvt. Ltd, Rajasthan.            |
|    |                                                                                                                   | Rajasree                    | Rajeswari Products Pvt.Ltd, Madhya Pradesh      |
|    |                                                                                                                   | Qute                        | Qute Extrusions Pvt. Ltd., Chennai              |
|    |                                                                                                                   | Prominace                   | Prominace Window Systems                        |
| 15 | Bamboo Wood Flooring and Wall Paneling                                                                            | Epitome Bamboowood Products | Mutha Industries                                |
|    |                                                                                                                   | Floor India                 | Flooring India Company, Panipat Haryana         |
|    |                                                                                                                   | Ecorgreen flooring          | Jupiter Traders, Bangalore.                     |
| 16 | Organic microbes for OWC                                                                                          | Prapt Organics              | Prapat Organics                                 |
|    |                                                                                                                   | Mygreen Bin                 | Mygreen Bin                                     |
|    |                                                                                                                   | Shara Eco Products          | Shara Eco Products                              |

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