



NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 620 015
ESTATE MAINTENANCE DEPARTMENT

NOTICE INVITING TENDERS NO: NITT/EMD//Civil / 2014

TENDER NOTIFICATION

Ref: NITT/EMD/ COW/Civil works /2014-15

Date.05.06.2014

The **Chief of works**, Estate Maintenance Department , NIT,Trichy- 620 015 invites on behalf of The Director, NIT,Trichy-620 015 sealed item rate tenders from the approved and eligible contractors of NITT/CPWD and those in the appropriate list of Tamil Nadu state PWD, Railways, MES and BSNL for the following work. Sealed tenders will be received by the Registrar, National Institute of Technology, Tiruchirappalli-15 up to **2.30 p.m on 20.06.2014**. The tender will be opened at **3.00. p.m** of Registrar **office**.

Enq No.	Est Id. No	Name of work	Estimate cost Rs.	Earnest Money Rs	Last date for Submission of the tenders	Tender cost
76	82	Providing and laying flamed granite & kotta stone in OJAS Quadrangle.	8,20,111/-	16,500/-	20.06.2014	Rs.575/-
77	83	Supplying and laying stone tiles and cut stone for OJAS Quadrangle.	8,74,259/-	17,500/-	20.06.2014	Rs.575/-
78	84	Providing and laying of 110mm OD PVC pipe for distribution of STP water from Funnel tank to Departments.	9,35,971/--	18,800/--	20.06.2014	Rs.575/-
79	85	Providing grill arrangement for ADM Block compound wall.	7,30,428/-	14,700/-	20.06.2014	Rs.575/-
80	86	Providing car shed to staff Qts (Total = 19 Nos)(Qts.No.7/2,8/2,10/2,14/6,15/3,16/1,16/38,16/43-50,17/7-10)	8,61,527/-	17,300/-	20.06.2014	Rs.575/-
81	87	Providing & fixing mosquito net to windows in rooms at Agate and Coral Hostel.	7,86,600/-	15,800/-	20.06.2014	Rs.575/-
82	88	C/o Toilet block and cycle parking facilities to Main entrance in NIT.	8,66,111/-	17,400/-	20.06.2014	Rs.575/-

Tender details in this regard may also be seen in the Notice board of office of the Estate office, Estate Maintenance Dept, NIT, Trichy-15 during office hours on any working days.

The Earnest money should be deposited along tender schedule in the form of demand draft of any Nationalized bank / scheduled bank drawn in favor of "The Director, NIT, Trichy-15".

-Sd- /Chief of Works

SCHEDULE OF WORK

State Tamil Nadu

Branch NITT

Name of Work: Providing and laying flamed granite & Kota stone in OJAS Quadrangle

Division EMD

Sub-Division INS

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT
1	Providing and laying flamed finish 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 : a. Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	190.00	sqm			
2	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) :					
2.1	25 mm thick	272.00	sqm			
	Total					

SIGNATURE OF CONTRACTOR

CHIEF OF WORKS

SCHEDULE OF WORK

State Tamil Nadu

Branch NITT

Name of Work : Supplying and laying Stone tiles and Cut stone for OJAS Quadrangle

Division EMD

Sub-Division INS

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT
1	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.					
1.1	8mm thick (mirror polished and machine cut edge)					
1.1.1	Granite stone of any colour and shade	33.00	sqm			
2	Supplying and laying 40 mm thick fine dressed Cut stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints finished flush. - White Cut stone	260.00	Sqm			
	Total					

SIGNATURE OF CONTRACTOR

CHIEF OF WORKS

SCHEDULE OF WORK

State Tamil Nadu

Branch NITT

Name of Work : Providing and laying 110mm OD PVC pipe for distribution of STP water from Funnel tank to Departments.

Division NITT

Sub-Division NITT

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.					
1.1	25 mm dia nominal bore	25.00	metre			
2	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :					
2.1	65 mm nominal bore	4.00	each			
3	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) :					
3.1	100 mm diameter					
3.1.1	Class II	1.00	each			
4	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 1:2:4 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 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 :					
4.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	1.00	each			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
5	Constructing masonry Chamber 60x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top 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 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 :					
5.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	18.00	each			
6	Earth work excavation & depositing on bank with initial lead of 10m and lift of 2m in all classes by soil in narrow trenches for pipe laying work including cost & conveyance of PVC rigid pipes (True Bore/ Jain pipes) and specials and lowering in to trenches and laying to proper grade and alignment & jointing with PVC couplers with jointing materials and testing to the required pressure including conveyance of water for filling during testing and refilling the trenches with excavated earth on completion of work. For depth up to 2m External work : 110 mm OD PVC 6KSC Pipes.	1,200.00	metre			
7	Earth work excavation & depositing on bank with initial lead of 10m and lift of 2m in all classes by soil in narrow trenches for pipe laying work including cost & conveyance of PVC rigid pipes (True Bore/ Jain pipes) and specials and lowering in to trenches and laying to proper grade and alignment & jointing with PVC couplers with jointing materials and testing to the required pressure including conveyance of water for filling during testing and refilling the trenches with excavated earth on completion of work. For depth up to 2m External work : 75 mm OD PVC 6KSC Pipes.	300.00	metre			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
8	Supply of unplasticised-PVC moulded fittings/accessories for unplasticised Rigid PVC confirming to IS : 13592 Type A-6 kg/cm ² , including jointing with seal ring confirming to IS : 5382, leaving 10mm gap for thermal expansion. Saddle clamp- (75mm to 25mm)	18.00	each			
9	Providing and fixing ball valve (Zoloto or equivalent) confirming to IS : 1703 of approved quality (screwed end): 25mm dia nominal bore	18.00	each			
10	Making connection from 300 CI pipe to 110mm OD PVC pipe 6ksc including necessary fittings,MSplates 6mm thick and clamps etc complete.	1.00	Job			
11	Providing and fixing G.I. pipes complete with G.I.fittings including labour charges for cutting & threading etc complete as directed by the Engineer incharge : External work 100mm dia nominal bore.	3.00	metre			
	Total					

Sd-/Chief of Works

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SCHEDULE OF WORK

State Tamil Nadu

Branch NITT

Name of Work : Providing grill arrangement for ADM Block compound wall

Division EMD

Sub-Division INS

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	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.					
1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	6,950.00	kg			
2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
2.1	Two or more coats on new work	2,050.00	sqm			
	Total					

SIGNATURE OF CONTRACTOR

CHIEF OF WORKS

SCHEDULE OF WORK

State

Branch

Name of Work : Providing car shed to staff Qts (Total = 19 Nos) (Qts.No.7/2,8/2,10/2,14/6, 15/3,16/1,16/38,16/43-50,17/ 7-10)

Division

Sub-Division

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	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.					
1.1	All kinds of soil.	40.00	cum			
2	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	37.00	cum			
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
3.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	42.50	cum			
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 :					
4.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	22.50	cum			
5	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.	2,995.00	kg			
6	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.					
6.1	40 mm thick with 20 mm nominal size stone aggregate	345.00	sqm			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
7	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.	360.00	sqm			
8	12 mm cement plaster of mix :					
8.1	1:4 (1 cement: 4 fine sand)	103.00	sqm			
9	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
9.1	Two or more coats on new work	39.00	sqm			
	Total					

SCHEDULE OF WORK

State Tamil Nadu

Branch NITT

Name of Work : Providing and fixing Mosquito net to windows in rooms at AGATE and CORAL Hostels.

Division NITT

Sub-Division NITT

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	Providing and Fixing of Mosquito Net with 20mm width powder coated aluminum frame. The frame shall be two vertical and three horizontal. The shutter made of stainless steel materials and frame operated with mini fibre hinges and with fibre stopper for 3 sides etc complete. The rate including cost of all materials and labour charges etc complete.	600.00	sqm			
	Total					

Sd-/Chief of Works

SCHEDULE OF WORK

State Tamil Nadu

Branch NITT

Name of Work : Construction of Toilet Block and Cycle parking facilities to Main entrance in NIT.

Division NITT

Sub-Division NITT

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
1	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.					
1.1	All kinds of soil.	28.00	cum			
2	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 m and lift upto 1.5 m.	150.00	cum			
3	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	18.00	cum			
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
4.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	4.00	cum			
5	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 :					
5.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1.00	cum			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
6	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 up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	4.00	cum			
7	Centering and shuttering including strutting, propping etc. and removal of form for :					
7.1	Suspended floors, roofs, landings, balconies and access platform	23.00	sqm			
7.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	16.00	sqm			
8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					
8.1	Cold twisted bars	600.00	kilogram			
9	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					
9.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	3.00	cum			
10	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 :					
10.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	11.00	cum			
11	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.					
11.1	Cement mortar 1:4 (1 cement :4 coarse sand)	8.00	sqm			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
12	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 :					
12.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	6.00	cum			
13	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.					
13.1	Granite Stone of approved shade	2.00	sqm			
14	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.					
14.1	Fixed to openings /wooden frames with rawl plugs screws etc. kg	160.00	kg			
15	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 :					
15.1	250x16 mm	2.00	each			
16	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 :					
16.1	200x10 mm	6.00	each			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
17	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 :					
17.1	125 mm	6.00	each			
18	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.	15.00	metre			
19	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.					

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
19.1	30 mm thick plain PVC door shutters	5.00	sqm			
20	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.).	50.00	kg			
21	Providing and fixing 1st 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.	63.00	sqm			
22	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), including pointing the joints with white cement and matching pigment etc., complete.	10.00	sqm			
23	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.					
23.1	110 mm diameter	6.00	metre			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
24	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.					
24.1	Bend 87.5°					
24.1.1	110 mm bend	2.00	each			
24.2	Shoe (Plain)					
24.2.1	110 mm Shoe	2.00	each			
25	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.					
25.1	110 mm	6.00	each			
26	12 mm cement plaster of mix :					
26.1	1:6 (1 cement: 6 fine sand)	125.00	sqm			
27	15 mm cement plaster on the rough side of single or half brick wall of mix :					
27.1	1:6 (1 cement: 6 fine sand)	60.00	sqm			
28	6 mm cement plaster of mix :					
28.1	1:3 (1 cement : 3 fine sand)	30.00	sqm			
29	White washing with lime to give an even shade :					

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
29.1	New work (three or more coats)	25.00	sqm			
30	Distemping with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.					
30.1	Two or more coats on new work	130.00	sqm			
31	Finishing walls with Acrylic Smooth exterior paint of required shade :					
31.1	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)	60.00	sqm			
32	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
32.1	Two or more coats on new work	60.00	sqm			
33	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 fine sand etc. all complete as per the direction of Engineer-in-charge.	500.00	sqm			
34	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 to 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).	6.00	cum			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
35	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 :					
35.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	2.00	each			
36	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 :					
36.1	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	2.00	each			
37	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.	2.00	each			
38	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
38.1	Semi rigid pipe					
38.1.1	40 mm dia	2.00	each			
38.2	Flexible pipe					
38.2.1	40 mm dia	2.00	each			
39	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.	2.00	each			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
40	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.					
40.1	20 mm dia nominal bore	20.00	metre			
41	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.					
41.1	25 mm dia nominal bore	30.00	metre			
42	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 :					
42.1	25 to 40 mm nominal bore	1.00	each			
43	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :					
43.1	25 mm nominal bore	3.00	each			
44	Providing and fixing uplasticised PVC connection pipe with brass unions :					
44.1	30 cm length					
44.1.1	15 mm nominal bore	2.00	each			
44.2	45 cm length					
44.2.1	15 mm nominal bore	2.00	each			
45	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 :					
45.1	20 mm diameter pipe	30.00	metre			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
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) :					
46.1	20 mm nominal bore	1.00	each			
46.2	25 mm nominal bore	1.00	each			
47	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 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.	1,000.00	per litre			
48	Providing and fixing PTMT bib cock of approved quality and colour.					
48.1	15 mm nominal bore, 165 mm long, weighing not less than 110 gms	4.00	each			
49	Providing and fixing PTMT stop cock of approved quality and colour.					
49.1	20 mm nominal bore, 89 mm long, weighing not less than 88 gms	4.00	each			
50	Providing and fixing PTMT grating of approved quality and colour.					
50.1	Circular type					
50.1.1	100 mm nominal dia	4.00	each			
51	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.					
51.1	25 mm nominal bore, 152mm long, weighing not less than 440 gms	1.00	each			
52	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
52.1	15 mm nominal bore with 30cm length	2.00	each			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
52.2	15 mm nominal bore with 45 cm length	2.00	each			
53	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 :					
53.1	100x100 mm size P type					
53.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	4.00	each			
54	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 :					
54.1	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) :					
54.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2.00	each			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
55	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 :					
55.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	25.00	sqm			
56	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	150.00	cum			

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT(Rs)
57	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	30.00	Metre			
58	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)	6.00	each			
59	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)	6.00	Each			
60	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	30.00	Metre			
61	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)	6.00	Each			
62	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)	6.00	Each			
	Total					

ITEM No	SUB-HEADS AND ITEM OF WORK	QUANTITY	UNIT	RATE (Rs)	RATE (In Words)	AMOUNT
					Sd/Chief of Works	