



Ref. NITT/EMD/AEE (E)/AE (P&D)/Pre-bid Meeting

Dt: 16.08.2016

Prebid Meeting - Clarification & Amendment

Tenders for

1. Hiring of Manpower / Human resources for Operation of 11/0.433 kV Substations with D.G. Sets, 11 kV Ring Main Units and Maintenance of Solar Power plants, Attending fuse of calls and other panels connected to the system (on outsourcing basis) for a period of one year.
2. Comprehensive Annual Maintenance Contract of HT installations Electrical system.
3. Comprehensive Annual Maintenance Contract (Electrical System) of LT installations and fuse of calls for Institute zones.
4. Comprehensive Annual Maintenance Contract (Electrical System) of LT installations and fuse of calls for Hostel & Quarters zone.

Tender Reference No's:

1. NITT/EMD/AEE (E)/AE (P&D)/Outsource-HOM/Enq.No.13 /2016 dated 27.07.2016
2. NITT/EMD/AEE (E)/ AE (P&D)/ Outsource - HT/ Enq.No.15, dated 27.07.2016
3. NITT/EMD/AEE (E)/ AE (P&D)/ Outsource - IZ / Enq.No.16, dated 27.07.2016
4. NITT/EMD/AEE (E)/ AE (P&D)/ Outsource – HZ & QZ / Enq.No.17, dated 27.07.2016

Prebid Meeting held on 16.08.2016 @ 11.00 A..M in the A11 hall,NIT,Trichy.

The following prospective bidders were attended the Pre bid meeting:

1. M/s.Chennai Engineering Services, Chennai-600 035.
2. M/s.Kamalam Electricals Engineering Contractors, Thanjavur- 613 001.
3. M/s.V.Arunachalam Electrical Contractor, Kottarapatti, Tiruchirappalli – 620 013.
4. M/s. AV Power green.com, Chennai-60005
5. M/s. Electrotech,Chennai-600116
6. M/s. UDS, Trichy-620 019.
7. M/s. Power Electrical works, Kattur, Tiruchirappalli – 620 019.
8. M/s.Lakshmi Electrical Works, Trichy-620 015.
9. M/s. Trident Wings Corporate Services Pvt Ltd, Chennai – 600 094

Sl.No.	Clarifications/Doubts sought by the bidders	Reply of the Selection Committee, NIT, Trichy
1	Whether Service Tax is applicable for Hiring of Manpower tender (Enq.no.13)?	Service Tax is not applicable since NIT is exempted from Service tax.
2	Shall we consider the minimum wages as per state Government or Central Govt whichever is higher? (Enq.no.13)	No, The minimum wages is as per Central Govt. only .
3	What is the contribution towards EPF /ESI for the workforce? (Enq.no.13)	The prevailing contribution towards EPF is at 13.36% & ESI is at 4.75% of basic pay plus VDA. However this can be referred to the relevant Act and monthly remittance shall be made direct to the individual account as per the Act.
4	What is the contribution towards Bonus for the workforce? (Enq.no.13)	Under section 2(13) amendment act 2015, bonus has been enhanced from Rs.3500 to Rs.7000.Hence this ‘‘seven thousand rupees or the minimum wage for the scheduled employment, as fixed by the appropriate Government, whichever is higher’’ shall be given to the workforce
5	shall NIT pay the service tax by themselves? (Enq.no.15-17)?	Service tax has to be paid by the contractor /service provider only who will be reimbursed on submission of documentary evidence for having paid so.
6	Confirm the specification for laying of earth wire as both copper wire and GI wire are mentioned and as the rate will be different for GI & Copper (Enq.no.15-17)?	Revised contract schedule will be uploaded seeking separate rate for copper and GI earth wire.
7	Whether advance payment will be made for stocking of electrical materials at stores?(Enq.no.15-17)?	No advance payment will be made against supply of materials and the payment will be made only after completion of works.
8	Whether NIT will consider deployment of exclusive technician for each and every buildings/hostels?(Enq.no.15-17)?	Payment for workmen /technician is as per NIT requirement only, specified in the tender. The contractor shall engage more at their discretion depending on the efficiency of the worker in completing the assigned job without claiming for, from NITT.
9	What is the remedy if the complaint posted person is not available ie Door is locked in Hostel room while organising fault clearance?	The contractor's technicians should get an acknowledgement from the care taker or from the next room occupier confirming the non availability of space to complete the complaint.
10	Whether NIT will negotiate with all the bidders for each zones?	Depends on the acceptable reasonable rates received. The lowest bidder of each zone may be negotiated to achieve reasonable rate. This may have correlation of the lowest bidding in other zones also to have uniformity, wherever feasible and required.

At the end of the pre tender meeting with above contractors, prospective bidders were informed to furnish complete set of offer documents with price bid along with the technical bids separately in sealed cover and the same should be serially numbered with description for quick reference.

The committee informed the participants that they may offer competitive reasonable rates to win the tender but underquoting / quoting minus or At Par percentage in respect of manpower supply tender for substation maintenance (13) that amounts to violation of minimum wages and statutory payments will be summarily rejected.

Committee Members

ANNEXURE - II
REVISED PRICE BID

Name of the Bidder _____

Sl.no Column 1	Particulars Column 2	Per shift in charge (Highly skilled-TA/SS operator/MO/HVAC.Tech) for 26 shifts of 8 Hours Column 3	Skilled operator/Technician (SP) for 26 shifts of 8 Hours Column 4
1.	Basic wage + Variable Dearness Allowance	₹ (220+228) X 26 shifts = ₹ 11,648.00	₹(200+207)X 26 shifts = ₹ 10582.00
2.	ESI @ 4.75% of Basic +VDA	₹ 553.28	₹ 502.65
3.	Bonus@8.33% (₹ 7000 and above whichever is higher)	₹ 970.28	₹ 881.48
4.	Provident fund @ 13.36%	₹ 1556.17	₹ 1413.76
5.	Sub Total of Row 1+2+3+4	₹ 14,727.73	₹ 13,379.89
6.	SERVICE CHARGES/ADMINISTRATION CHARGES/ESTABLISHMENT CHARGES/CHARGES TOWARDS PROVISION OF UNIFORM, UPKEEP OF UNIFORM, WAGES TOWARDS NATIONAL HOLIDAYS, ANY OTHER CHARGES AND PROFIT MARGIN (To be Quoted as a fixed amount for 26 shifts for 8hours)		
7.	Total cost per head(Total of Row 5and Row 6)		
8.	Number of personnel required for our institute under each category.	3Shift in charge+1Releiver+7 Maintenance =Total 11	3Shift in charge+ 2 Maintenance = Total 5
9.	Total amount for the required personnel(respective columns of row 7 to be multiplied with those of row 8)		
10.	Grand Total (Sum total of column 3,and column 4 of Row 9)		

- All columns are mandatory and, therefore, no row should be left blank .if no charges are applicable, clearly state zero in the row.
- The minimum Wages given in the row is, as on 1st April 2016.Variation in minimum wages due to variable clearness allowance as and when notified by the government will be reimbursed by the NITT. Similarly, other statutory increase will also be considered.
- As per statutory norms, the MAXIMUM PF per personnel is ₹ 1556.17
- As per statutory norms, Bonus payment will be ₹ 7000 or higher whichever is maximum. Thus the MAXIMUM BONUS per personnel is ₹ 970.28
- Housekeeping contracts of Educational Institutions are exempted from service tax. Therefore service tax not be quoted.

HT INSTALLATION - REVISED PRICE BID - ANNEXURE-II

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
1	CABLES												
1.1	Supplying of following size ISI marked XLPE insulated aluminium conductor H.T cable of 11 KV grade as required. (Make:Havells,Finolex,Gloster and Polycab) as per ISI Specification IS:7098/(Part-II) 1985 with latest amendments												
1.1.2	3X120 Sq mm	Mtr	25										
1.1.1	3X240 Sq mm	Mtr	25										
1.1.3	3X300 Sq mm	Mtr	150										
1.2	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.												
1.2.1	Upto 120 sq. mm	Mtr	50										
1.2.2	Above 120 sq. mm and upto 400 sq. mm	Mtr	150										
	<i>SUB TOTAL 1</i>												
2	HV CABLE JOINTING & END TERMINATION												
2.1	Supplying and making indoor cable end jointing with cast resin compound, including lugs and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :												
2.1.1	120 sq. mm	No	50										

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
2.1.2	240 sq. mm	No	75										
2.1.3	300 sq. mm	No	100										
	<i>SUB TOTAL 2</i>												
3	CABLE JOINT												
3.1	Supplying and Making HV straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required: \.Make: Mseal/Equivalent												
3.1.1	120 sq. mm	No	15										
3.1.2	240 sq. mm	No	15										
3.1.3	300 sq. mm	No	15										
	<i>SUB TOTAL 3</i>												
4	CABLE ROUTE MARKER												
4.1	Supplying and making HT cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 92 cm X 92 cm with a thickness of 10cm including inscription duly engraved as required.	No	20										
4.2	Find out HT cable fault	Nos	1	NA	NA	NA	NA						
4.3	Excavation and refilling the trench with sand,brick or cable dub(cover) HT Cable Joint Per Location 3 X120 -300Sq.mm	Nos	1	NA	NA	NA	NA						
	<i>SUB TOTAL 4</i>												

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
5	HT INSTALLATION WORKS												
5.1	<u>Receiving station</u> Maintenance of 11kV AB switch , 11kV Breakers- 6Nos,Testing of relays,yard cleaning,earth pit resistance,measurement and documentation.Breakers, CT's, PT's, Battery Chargers & Batteries, Maintenance of Receiving Station equipment's as per standard ,attending faults in Receiving Station including Double pole Structure and checking and earthing of earth resistance value.	Nos	1	NA	NA	NA	NA						
5.2	<u>Main Power House</u> a.Maintenance of LT AMF panel-2No (4 breaker) Relay testing b.Maintenance system control breaker 3 Nos and relay testing. c.Maintenance of Tr 2X1000 kVA, Maintenance of Oil filtration,earth pit measurement etc d. Maintenance of 1000-1600A MV panel- 6Nos, ACB-17Nos	Nos	1	NA	NA	NA	NA						
5.3	<u>Substations: sump, amber, aquamarine, topax ,emerlad, 12th street,Prof.qua,opal hostel,KV school</u> Maintenance of 11kV/33kV substations,transformer testing,oil filtration,cleaning,yard maintenance and earth pit resistant measurement.Tr 500kVA-1 No,ACB-1 No ,800A LV Panel-1 No	Nos	9	NA	NA	NA	NA						
5.4	<u>Quarters Substations:</u> Maintenance of 11kV/33kV substations,transformer testing,oil filtration,cleaning,yard maintenance and earth pit resistant measurement. Tr 500kVA-1 No,Tr 250kVA -1 No,Tr 200kVA-1No, ACB-3 Nos, LT AMF-1No , 800A LV Panel-5Nos	Nos	1	NA	NA	NA	NA						
5.5	<u>KV School Substations:</u> Maintenance of 11kV/33kV substations,transformer testing,oil filtration,cleaning,yard maintenance and earth pit resistant measurement. Tr 250kVA-1 Nos,ACB-1No, 800A LV Panel-1 No	Nos	1	NA	NA	NA	NA						
5.6	<u>RMU 3 Panel:</u> Maintenance of RMU-1No, HT Breaker-1, HT Load breaker -2No,Relay testing,earth pit checking-2Nos	Nos	9	NA	NA	NA	NA						

Signature Stamp of Tenderer

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
5.7	RMU 4 Panel: Maintenance of RMU-1No, HT Breaker-1, HT Load breaker -3Nos,Relay testing,earth pit checking-2Nos	Nos	2	NA	NA	NA	NA						
5.8	RMU 5 Panel: Maintenance of RMU-1No, HT Breaker-2, HT Load breaker -3Nos,Relay testing,earth pit checking-2Nos	No	1	NA	NA	NA	NA						
	<i>SUB TOTAL 5</i>												
	NET AMOUNT												

Note : NA - Not Applicable

INSTITUTE ZONE - REVISED PRICE BID - ANNEXURE II

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
1	WIRINGS												
1.1	Supply and Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with piano/modular type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. with continuous running of 16 swg copper wire for earthing clamping etc as required.												
1.1.1	Group B Piano	Point	30										
1.1.2	Group C Piano	Point	40										

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					5%	14.50%							
					A	B							
1.1.3	Group B Modular	Point	20										
1.1.4	Group C Modular	Point	30										
1.2	Supply and Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	Point	5										
1.3	Supply and Wiring for circuit/sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required												
1.3.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	100										
1.3.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	500										

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					5%	14.50%								
					A	B								C
1.3.3	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	100											
1.3.4	2 X 10 sq. mm + 1 X 10 sq. mm earth wire	Metre	100											
1.3.5	2 X 16 sq. mm + 1 X 16 sq. mm earth wire	Metre	100											
1.3.6	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Metre	150											
1.3.7	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Metre	100											
1.4	Supply and fixing of following piano type switch/socket/Regulator on the existing switch box/ cover including connections etc. as required.													
1.4.1	5/6 amps Switch/Bell switch/2way switch	Each	500											
1.4.2	15/16 amps Switch	Each	100											
1.4.3	3pin 5/6 amp Socket outlet	Each	200											
1.4.4	6pin 15/16 amp Socket outlet	Each	100											

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
1.4.5	Regulator	Each	500										
1.4.6	Call bell/ buzzer suitable for single phase, 230 volts, complete as required.	Each	10										
1.4.7	Fixing of 5-15 A Switch/Socket/Bell Push/Indicator/Regulator	Each	100	NA	NA	NA	NA						
1.4.8	Replacement of 5-15 A Switch/Socket/Bell Push/Indicator/Regulator	Each	50	NA	NA	NA	NA						
1.5	Supply and fixing of following Modular/Arteor type switch/socket on the existing switch box/ cover including connections etc. as required.												
1.5.1	5/6 amps Switch/Bell switch/2way switch	Each	250										
1.5.2	15/16 amps Switch	Each	75										
1.5.3	3pin 5/6 amp Socket outlet	Each	150										
1.5.4	6pin 15/16 amp Socket outlet	Each	500										
1.5.5	Regulator	Each	50										

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
1.5.6	Call bell/ buzzer suitable for single phase, 230 volts, complete as required.	Each	10										
1.5.7	Fixing of 5-15 A Switch/Socket/Bell Push/Indicator/Regulator	Each	75	NA	NA	NA	NA						
1.5.8	Replacement of 5-15 A Switch/Socket/Bell Push/Indicator/Regulator	Each	50	NA	NA	NA	NA						
1.6	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required. Make:Legrand/MK/Equivalent												
1.6.1	1 or 2Module	Each	50										
1.6.2	3 Module	Each	50										
1.6.3	4 Module	Each	50										
1.6.4	6 Module	Each	50										
1.6.5	8 Module	Each	50										

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words	
					5%	14.50%								
					A	B								C
1.6.6	12 Module	Each	15											
1.7	Supplying and fixing following modular base & cover plate on existing modular metal boxes etc as required.													
1.7.1	1 or 2Module	Each	50											
1.7.2	3 Module	Each	50											
1.7.3	4 Module	Each	50											
1.7.4	6 Module	Each	50											
1.7.5	8 Module	Each	50											
1.7.6	12 Module	Each	20											
1.8	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	500											

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
1.9	Supplying and fixing brass patten/ angle holder including connection etc. as required.	Each	200										
	SUB TOTAL 1												
2	T5/LED/METAL HALIDE/CFL FITTINGS												
2.1	Supply and fixing of industrial patten suitable for TL5 lamp 28w Available with optional reflector. (with 2 years manufacturer's warranty)												
2.1.1	TMSI 22 M 1 X TL5 -28W EBT with lamp	Each	100										
2.1.2	TMSI 22 M 2 X TL5 -28W EBT with lamp	Each	15										
2.1.3	T5 28w Tube	Each	750										
2.1.4	Electronic Choke suitable for T5 28W fitting	Each	500										

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
2.1.5	T5 14W Tube	Each	30										
2.2	Supplying and fixing street light luminaire with die cast aluminum housing and toughened glass cover with min IP65 protection , with the LED Type fixtures of following Wattage complete with all accessories and drivers, LN6 heat sink minimum 5kVA surge protection low power LEDs with driving current less than 350mA etc. on existing brackets on street light poles including connection & loop earthing with 3 core 1.5 sqmm flexible PVC insulated PVC round sheathed copper conductor cable from street light box to fitting, testing and commissioning etc. as required. (with 5 years manufacturer's warranty)												
2.2.1	LED 90W ST white colour lamp.	Each	10										

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
2.2.2	Drive for 90W LED	Each	10										
2.3	Supply and fixing of outdoor of LED Floodlighting for instant start, Extruded aluminium heat sink, designed to act as efficient heat dissipater – important for LED luminaires, Pressure die-cast aluminium cover on both sides for holding of extruded aluminium heat sink, Luminaire provided with heat resistant toughened glass, Control gear compartment is an integral part of luminaire, LEDs are provided with secondary lens optics to get optimum optical performance, The driver used is specially designed to have surge voltage, open/short circuit protections and Luminaire is provided with a mounting bracket fixed on pressure die-cast aluminium covers for aiming adjustment etc. as required.												
2.3.1	140W LED Flood light	Each	5										
2.3.2	Drive for 140W LED	Each	5										

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words	
					5%	14.50%								
					A	B								C
2.4	Supply and fixing of following rating metal halide fitting (phillips MWF 331) in existing pole i/c 3x1.5 sq mm wire from pole mouting box to fitting with required interconnections.													
2.4.1	MWF331 1xHPITP250W S/A 250w lamp	Each	5											
2.4.2	MWF331 1xHPITP400W S/A 400w lamp	Each	5											
2.4.3	250w Metal Halide lamp	Each	25											
2.4.4	400w Metal Halide lamp	Each	25											
2.4.5	Ignitor for 250W MH lamp	Each	20											
2.4.6	Ignitor for 400W MH lamp	Each	20											
2.4.7	250W Metal Halide choke	Each	20											
2.4.8	400W Metal Halide choke	Each	15											

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
2.5	Supply and fixing of PLL-PLC 2Pin and 4Pin lamp with connections etc as required.												
2.5.1	9-11W PLC 2P	Each	100										
2.5.2	11-13W PLC 4P	Each	25										
2.5.3	18W PLL 4P	Each	25										
2.5.4	36W PLL 4P	Each	100										
2.6	Electrical breakdown FAULT ATTENDING & CLEANING OF INDOOR/OUTDOOR LIGHTS/FITTINGS												
2.6.1	Checking, identifying the faults in T5-28/40W tube light fitting, cleaning and rectification of the faults by replacement of one (or) more of the followings: Lamp, choke, Capacitors, lamp holder, terminal block, driver unit, inter Connection wiring from DL-MCB to ceiling rose/ terminal Strip and to fitting.	each	500	NA	NA	NA	NA						

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
2.6.2	Checking, identifying the faults in 45-140W Metal Halide/HPMV/HPSV roof light fittings/street light fittings and rectification of the faults by replacement of one (or) more of the followings:Lamp,choke,Capacitors,lamp holder, terminal block, driver unit,inter Connection wiring from DL-MCB to ceiling rose/ terminal Strip and to fitting.	each	200	NA	NA	NA	NA						
2.6.3	Checking, identifying the faults in 45-140W LED fittings/street light fittings and rectification of the faults by replacement of one (or) more of the followings:Lamp,choke,Capacitors,lamp holder, terminal block, driver unit,inter Connection wiring from DL-MCB to ceiling rose/ terminal Strip and to fitting.	each	200	NA	NA	NA	NA						
2.6.4	Removing and fixing of Street light adaptor box and checking of MCB including connections as required.	each	10	NA	NA	NA	NA						
2.6.5	Removing and fixing of 1X28W/2x28W /40W/65W/80W/box type/industrial type fluorescent tube light fittings including hand over to EMC	each	50	NA	NA	NA	NA						
2.6.6	Cleaning of 1X28W/2x28W /40W/65W/80W/4x24 w box type/industrial type fluorescent tube light fittings including the reflectors/diffusers etc	each	250	NA	NA	NA	NA						
2.6.7	Maintenance of street light distribution panel.	each	5	NA	NA	NA	NA						
SUB TOTAL 2													

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words	
					5%	14.50%								
					A	B								C
3	FAN REWINDING of single phase 230V FANS .													
3.1	Rewinding of Ceiling fan/Exhaust Fan/Wall mount Fan inclusive of all materials(copper wire) required for rewinding with minimum 1year warranty													
3.1.1	1200/1400 sweep Ceiling Fan Rewinding	each	250											
3.1.2	Exhaust Fan Winding 300mm sweep size	each	50											
3.1.3	Exhaust Fan Winding 380-450mm sweep size	each	10											
3.1.4	Exhaust Fan Winding 600mm sweep size	each	5											
3.1.5	Wall mount Fan Winding light duty	each	50											
3.1.6	Wall mount Fan Winding medium duty	each	10											
3.1.7	Wall mount Fan Winding heavy duty	each	50											

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
3.2	Supplying and fixing of ceiling fan of following sweep, suitable for operation on 230 Volts, single phase, 50 Hz, AC Supply including 300 mm long down rod and resistance type regulator as required with interconnections												
3.2.1	1200mm Sweep	each	25										
3.2.2	G.I.Pipe down rod length 90 cm and dia 20 mm ,thickness	each	100										
3.2.3	Fan service ball bearing replace work	each	300										
3.2.4	Supplying and fixing extra conduit down rod of 150 cm length G.I. pipe 20 mm dia, heavy gauge including painting etc.required. (Note: More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored.)	each	20										
3.2.5	Supply and fixing of condensor	each	250										
3.2.6	Supply and fixing of Fan clamp set	each	50										
3.3	Supply and fixing of heavy duty 960 RPM exhaust fan of following sweep, suitable for operation on 230 Volts, single phase, 50 Hz, AC Supply including suitable size louvers as required.												

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words	
					5%	14.50%								
					A	B								C
3.3.1	300mm	each	10											
3.3.2	380mm	each	5											
3.3.3	450mm	each	5											
3.3.4	300mm Blade	each	5											
3.3.5	380mm Blade	each	5											
3.3.6	450mm Blade	each	5											
3.3.7	600mm Blade	each	5											
3.3.8	Supply and fixing of condensor	each	5											
3.4	Supplying and fixing of wall mounting 450mm sweep fan suitable for operation on 230 Volts, single phase, 50 Hz, AC Supply including wall braket rod and resistance type regulator as required.													
3.4.1	Light duty	each	5											

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
3.4.2	Medium type	each	10										
3.4.3	Heavy Duty	each	15										
	SUB TOTAL 3												
4	FIXING/CLEANING/NUMBERING OF FAN												
4.1.	Fixing of Ceiling Fan 1200/1400 mm sweep	each	100	NA	NA	NA	NA						
4.2	Supply and Fixing of MS "S" type/MS "Anger fastener" type fan hook including chipping, fixing & surfacing to make good condition..	each	25										
4.3	Cleaning of ceiling fan/exhaust fan /Pedestal fan completely .	each	150	NA	NA	NA	NA						
4.4	Supplying Printed labels for tubes,fans,lights etc as required. Ex:for Ceiling fan NITT/C.F/1	Each	25000										
	SUB TOTAL 4												
5	EARTHING												
5.1	Earthing with G.I. earth pipe 2.5 metre long, 50 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per IS 3043 as required.	Each	2										

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
5.2	Supply and laying of 6 SWG G.I wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	Meter	100										
5.3	Supply and laying of 6 SWG Copper wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	Meter	50										
5.4	Supply and laying of 25 mm X 5 mm/50 mm X 5mm G.I/ Copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required.												
5.4.1	25 mm X 5 G.I Strip	Meter	50										
5.4.2	25 mm X 5 Copper Strip	Meter	25										
5.5	Cosmos roma 40mm dia 2Mtrs length with moisture enhancer 25 Kg.	each	25										
5.6	Cosmos roma 40mm dia 3Mtrs length with moisture enhancer 25 Kg.	each	10										
5.7	Earth bit testing and value writing in paint	each	150										
	SUB TOTAL 5												
6	CABLES												
6.1	Supply of aluminium Armoured XLPE UG CABLE 1.1KV as per ISI Specification IS:7098/(Part-II) 1985 with latest amendments												
6.1.1	2x16.0 Sq.mm	Meter	250										

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					5%	14.50%							
					A	B							
6.1.2	3.5x185 Sq.mm	Meter	200										
6.1.3	3.5x240 Sq.mm	Meter	200										
6.1.4	3.5x300 Sq.mm	Meter	100										
6.2	CABLE FAULT												
6.2.1	Find out LT cable fault for all sizes	each	20	NA	NA	NA	NA						
6.2.2	Excavation and refilling the trench with sand,brick or cable dub(cover) LT Cable Joint Per Location 3.5 X120 -300Sq.mm	each	10										
6.3	Supply and laying of following size Double walled Corrugated High Density Polyethylene pipe having corrugation on the outer wall and plain surface inner wall conforming to IS 14930 part- I and part -II complete with necessary HDPE fitting for protection of 1.1 KV grade under ground cable directly in ground at a depth 75cm including excavation and refilling the trench etc as required.												
6.3.1	77mm/63mm (OD/ ID)	Meter	350										
6.3.2	110mm/94mm (OD/ ID)	Meter	250										
6.3.3	120mm/103mm (OD/ID)	Meter	300										

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
6.3.4	180mm/152mm (OD/ID)	Meter	300										
	SUB TOTAL 6												
7	MV CABLE LAYING												
7.1	Laying/removing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench and the same cables handover to EMC stores etc. as required.												
7.1.1	Removing Upto 400sq. mm	Metre	3000	NA	NA	NA	NA						
	SUB TOTAL 7												
8	CABLE ROUTE MARKER												
8.1	Supplying and making LT cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 30 cm with a thickness of 8cm including inscription duly engraved as required.	each	50										
	SUB TOTAL 8												
9	MV /HV CABLE TERMINATION /JOINT KITS												

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
9.1	Supply and Making MV cable end indoor/outdoor termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.												
9.1.1	2 X 16-50 sq. mm	Each	25										
9.1.2	3½ X 70-95sq. mm	Each	20										
9.1.3	3½ X 120-185 sq. mm	Each	20										
9.1.4	3½ X 240-400 sq. mm	Each	50										
9.1.5	4 X 16 sq. mm	Each	20										
9.1.6	4 X 25-35 sq. mm	Each	10										
9.1.7	4 X 50 sq. mm	Each	20										
9.2	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.												

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
9.2.1	2 X 16-50 sq. mm	Each	15										
9.2.2	3½ X 70-95 sq. mm	Each	10										
9.2.3	3½ X 120-185 sq. mm	Each	5										
9.2.4	3½ X 240 sq. mm	Each	10										
9.2.5	3½ X 300 sq. mm	Each	5										
9.2.6	3½ X 400 sq. mm	Each	5										
9.2.7	4 X 16 sq. mm	Each	5										
9.2.8	4 X 25-35sq. mm	Each	10										
9.2.9	4 X 50 sq. mm	Each	10										
	SUB TOTAL 9												
10	Fixing of Meters/Hose/Acrylic sheets/UPS												

Signature Stamp of tenderer

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
10.1	Fixing of energy meter/multifunction meter/ammeter/voltmeter/selector switch for following ratings suitable operation on 230/415 Volts, 1 ph,3 ph 50 Hz, AC Supply as required.	Each	20	NA	NA	NA	NA						
10.2	Energy meter reading taking in Institute zone including entry of reading in cards 5-10th of every cycle ,preparation of bills and issue of bills for every 2months	Each	135	NA	NA	NA	NA						
10.3	Providing temporary supply to stalls and mess areas including preparation of bills	Each	20	NA	NA	NA	NA						
10.4	Labour charges for installing UPS/inverter with connections as required.												
10.5	2-5kVA,1Ph/3Ph	Each	10	NA	NA	NA	NA						
10.6	7.5-20kVA,1Ph/3Ph	Each	5	NA	NA	NA	NA						
10.7	Carried out Maintenance of DBs,MV panel	Each	200	NA	NA	NA	NA						
	SUB TOTAL 10												
11	MCCB,MCB&DB'S DSR 2012												

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
11.1	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections,testing and commissioning etc. as required including removing charges.												
11.1.1	Single Pole	Each	250										
11.1.2	Double Pole	Each	50										
11.1.3	Triple Pole	Each	20										
11.1.4	Four Pole	Each	25										
11.1.5	Double/Triple/Four pole enclosure	Each	25										
11.2	Supplying and fixing 240/415 volts, "C" curve, ELCB suitable for inductive load of following poles in the existing MCB DB complete with connections,testing and commissioning etc. as required including removing charges.												
11.2.1	25-40A , DP,30 mA	Each	5										

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
11.2.2	63A DP,30mA	Each	5										
11.2.3	40-63A FP 30mA	Each	5										
11.3	Supplying and fixing for following amps rating, 240/415 volts,"C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.												
11.3.1	Triple pole 40-63A MCB	Each	30										
11.3.2	Four pole 40-63A MCB	Each	5										
11.4	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 1 pole and earth,metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	30										

SL No	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
12	Providing services on Emergency/Function duties beyond working hours.Labour charges will be given only beyond working hours if approved by engineer incharge.												
12.1	Highly Skilled	per hour	384										
12.2	Skilled	per hour	384										
	SUB TOTAL 12												
	NET AMOUNT IN RS												

Note : NA -Not Applicable

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*I	Rate in Words
					5%	14.50%							
					A	B							
1	WIRINGS												
1.1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with piano/modular type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required.												
1.1.1	Group B Piano	Point	20										
1.1.2	Group C Piano	Point	30										
1.1.3	Group B Modular	Point	20										
1.1.4	Group C Modular	Point	30										

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
1.2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	Point	5										
1.3	Supply and Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required												
1.3.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	50										
1.3.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	500										
1.3.3	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	100										
1.3.4	2 X 10 sq. mm + 1 X 10 sq. mm earth wire	Metre	10										
1.3.5	2 X 16 sq. mm + 1 X 16 sq. mm earth wire	Metre	10										
1.3.6	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Metre	150										
1.3.7	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Metre	100										

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
1.4	Supply and fixing of following piano type switch/socket/Regulator on the existing switch box/ cover including connections etc. as required.												
1.4.1	5/6 amps Switch/Bell switch/2way switch	Each	500										
1.4.2	15/16 amps Switch	Each	100										
1.4.3	3pin 5/6 amp Socket outlet	Each	200										
1.4.4	6pin 15/16 amp Socket outlet	Each	100										
1.4.5	Regulator	Each	500										
1.4.6	Call bell/ buzzer suitable for single phase, 230 volts, complete as required.	Each	10										
1.4.7	Fixing of 5-15 A Switch/Socket/Bell Push/Indicator/Regulator	Each	100	NA	NA	NA	NA						
1.4.8	Replacement of 5-15 A Switch/Socket/Bell Push/Indicator/Regulator	Each	50	NA	NA	NA	NA						
1.5	Supply and fixing of following Modular/Arteor type switch/socket on the existing switch box/ cover including connections etc. as required.												
1.5.1	5/6 amps Switch/Bell switch/2way switch	Each	250										

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words	
					5%	14.50%								
					A	B								C
1.5.2	15/16 amps Switch	Each	75											
1.5.3	3pin 5/6 amp Socket outlet	Each	150											
1.5.4	6pin 15/16 amp Socket outlet	Each	500											
1.5.5	Regulator	Each	50											
1.5.6	Call bell/ buzzer suitable for single phase, 230 volts, complete as required.	Each	10											
1.5.7	Fixing of 5-15 A Switch/Socket/Bell Push/Indicator/Regulator	Each	75	NA	NA	NA	NA							
1.5.8	Replacement of 5-15 A Switch/Socket/Bell Push/Indicator/Regulator	Each	50	NA	NA	NA	NA							
1.6	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.													
1.6.1	1 or 2Module	Each	50											
1.6.2	3 Module	Each	50											
1.6.3	4 Module	Each	50											
1.6.4	6 Module	Each	50											

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words	
					5%	14.50%								
					A	B								C
1.6.5	8 Module	Each	50											
1.6.6	12 Module	Each	15											
1.7	Supplying and fixing following modular base & cover plate on existing modular metal boxes etc as required.													
1.7.1	1 or 2Module	Each	50											
1.7.2	3 Module	Each	50											
1.7.3	4 Module	Each	50											
1.7.4	6 Module	Each	50											
1.7.5	8 Module	Each	50											
1.7.6	12 Module	Each	20											
1.8	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	500											
1.9	Supplying and fixing brass patten/ angle holder including connection etc. as required.	Each	200											
SUB TOTAL 1														

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
2	T5/LED/METAL HALIDE/CFL FITTINGS												
2.1	Supply and fixing of industrial patten suitable for TL5 lamp 28w Available with optional reflector. (with 2 years manufacturer's warranty)												
2.1.1	TMSI 22 M 1 X TL5 -28W EBT with lamp	Each	100										
2.1.2	TMSI 22 M 2 X TL5 -28W EBT with lamp	Each	15										
2.1.3	T5 28w Tube	Each	750										
2.1.4	Electronic Choke suitable for T5 28W fitting	Each	500										
2.1.5	T5 14W Tube	Each	30										

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
2.2	Supplying and fixing street light luminaire with die cast aluminum housing and toughened glass cover with min IP65 protection , with the LED Type fixtures of following Wattage complete with all accessories and drivers, LN6 heat sink minimum 5kVA surge protection low power LEDs with driving current less than 350mA etc. on existing brackets on street light poles including connection & loop earthing with 3 core 1.5 sqmm flexible PVC insulated PVC round sheathed copper conductor cable from street light box to fitting, testing and commissioning etc. as required. (with 5 years manufacturer's warranty)												
2.2.1	LED 90W ST white colour lamp.	Each	10										
2.2.2	Drive for 90W LED	Each	10										
2.3	Supply and fixing of outdoor of LED Floodlighting for instant start, Extruded aluminium heat sink, designed to act as efficient heat dissipater – important for LED luminaires, Pressure die-cast aluminium cover on both sides for holding of extruded aluminium heat sink, Luminaire provided with heat resistant toughened glass, Control gear compartment is an integral part of luminaire, LEDs are provided with secondary lens optics to get optimum optical performance, The driver used is specially designed to have surge voltage, open/short circuit protections and Luminaire is provided with a mounting bracket fixed on pressure die-cast aluminium covers for aiming adjustment etc. as required.												

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words	
					5%	14.50%								
					A	B								C
2.3.1	140W LED Flood light	Each	5											
2.3.2	Drive for 140W LED	Each	5											
2.4	Supply and fixing of following rating metal halide fitting (phillips MWF 331) in existing pole i/c 3x1.5 sq mm wire from pole mouting box to fitting.													
2.4.1	MWF331 1xHPITP250W S/A 250w lamp	Each	5											
2.4.2	MWF331 1xHPITP400W S/A 400w lamp	Each	5											
2.4.3	250w Metal Halide lamp	Each	25											
2.4.4	400w Metal Halide lamp	Each	25											
2.4.5	Ignitor for 250W MH lamp	Each	20											
2.4.6	Ignitor for 400W MH lamp	Each	20											
2.4.7	250W Metal Halide choke	Each	20											

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
2.4.8	400W Metal Halide choke	Each	15										
2.5	Supply and fixing of PLL-PLC 2Pin and 4Pin lamp with connections etc as required.												
2.5.1	9-11W PLC 2P	Each	100										
2.5.2	11-13W PLC 4P	Each	25										
2.5.3	18W PLL 4P	Each	25										
2.6	Electrical breakdown FAULT ATTENDING & CLEANING OF INDOOR/OUTDOOR LIGHTS/FITTINGS												
2.6.1	Checking, identifying the faults in T5-28/40W tube light fitting, cleaning and rectification of the faults by replacement of one (or) more of the followings: Lamp, choke, Capacitors, lamp holder, terminal block, driver unit, inter Connection wiring from DL-MCB to ceiling rose/ terminal Strip and to fitting.	each	1500	NA	NA	NA	NA						
2.6.2	Checking, identifying the faults in 45-140W Metal Halide/HPMV/HPSV roof light fittings/street light fittings and rectification of the faults by replacement of one (or) more of the followings: Lamp, choke, Capacitors, lamp holder, terminal block, driver unit, inter Connection wiring from DL-MCB to ceiling rose/ terminal Strip and to fitting.	each	200	NA	NA	NA	NA						

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
2.6.3	Checking, identifying the faults in 45-140W LED fittings/street light fittings and rectification of the faults by replacement of one (or) more of the followings:Lamp,choke,Capacitors ,lamp holder, terminal block, driver unit,inter Connection wiring from DL-MCB to ceiling rose/ terminal Strip and to fitting.	each	200	NA	NA	NA	NA						
2.6.4	Removing and fixing of Street light adaptor box and checking of MCB including connections as required.	each	10	NA	NA	NA	NA						
2.6.5	Removing and fixing of 1X28W/2x28W /40W/65W/80W/box type/industrial type fluorescent tube light fittings including hand over to EMC	each	50	NA	NA	NA	NA						
2.6.6	Cleaning of 1X28W/2x28W /40W/65W/80W/4x24 w box type/industrial type fluorescent tube light fittings including the reflectors/diffusers etc	each	500	NA	NA	NA	NA						
2.6.7	Maintenance of street light distribution panel.	each	5	NA	NA	NA	NA						
	SUB TOTAL 2												
3	FAN REWINDING WORKS												
3.1	Rewinding of Ceiling fan/Exhaust Fan/Wall mount Fan inclusive of all materials(copper wire) required for rewinding with minimum 1year warranty												

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words	
					5%	14.50%								
					A	B								C
3.1.1	Ceiling Fan Winding	each	2000											
3.1.2	Exhaust Fan Winding 300mm	each	50											
3.1.3	Exhaust Fan Winding 380-450mm	each	50											
3.1.4	Exhaust Fan Winding 600mm	each	5											
3.1.5	Wall mount Fan Winding light duty	each	10											
3.1.6	Wall mount Fan Winding medium duty	each	250											
3.1.7	Wall mount Fan Winding heavy duty	each	25											
3.2	Supplying and fixing of ceiling fan of following sweep, suitable for operation on 230 Volts, single phase, 50 Hz, AC Supply including 300 mm long down rod and resistance type regulator as equired.													
3.2.1	1200mm Sweep	each	50											
3.2.2	G.I.Pipe down rod length 90 cm and dia 20 mm ,thickness	each	0											
3.2.3	Fan service ball bearing replace work	each	300											

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
3.2.4	Supplying and fixing extra conduit down rod of 150 cm length G.I. pipe 20 mm dia, heavy gauge including painting etc.required. (Note: More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored.)	each	20										
3.2.5	Supply and fixing of condensor	each	500										
3.2.6	Supply and fixing of Fan clamp set	each	100										
3.3	Supply and fixing of heavy duty 960 RPM exhaust fan of following sweep, suitable for operation on 230 Volts, single phase, 50 Hz, AC Supply including suitable size louvers as required.												
3.3.1	300mm	each	10										
3.3.2	380mm	each	5										
3.3.3	450mm	each	5										
3.3.4	300mm Blade	each	5										
3.3.5	380mm Blade	each	5										
3.3.6	450mm Blade	each	5										
3.3.7	600mm Blade	each	5										

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
3.3.8	Supply and fixing of condensor	each	5										
3.4	Supplying and fixing of wall mounting fan of following 450mm sweep , suitable for operation on 230 Volts, single phase, 50 Hz, AC Supply including wall braket rod and resistance type regulator as required.												
3.4.1	Light duty	each	5										
3.4.2	Medium type	each	10										
3.4.3	Heavy Duty	each	15										
	SUB TOTAL 3												
4	FIXING/CLEANING/NUMBER ING OF FAN												
4.1.	Fixing of Ceiling Fan 1200/1400 mm sweep	each	100	NA	NA	NA	NA						
4.2	Supply and Fixing of MS "S" type/MS "Anger fastener" type fan hook including chipping, fixing & surfacing to make good condition..	each	25										
4.3	Cleaning of ceiling fan/exhaust fan /Pedestal fan completely .	each	150	NA	NA	NA	NA						
4.4	Supplying Printed labels for tubes,fans,lights etc as required. Ex:for Ceiling fan NITT/C.F/1	Each	25000										

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
	SUB TOTAL 4												
5	E A R T H I N G												
5.1	Earthing with G.I. earth pipe 2.5 metre long, 50 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per IS 3043 as required.	Each	2										
5.2	Supply and laying of 6 SWG G.I wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	Meter	100										
5.3	Supply and laying of 6 SWG Copper wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	Meter	50										
5.4	Supply and laying of 25 mm X 5 mm/50 mm X 5mm G.I/ Copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required.												
5.4.1	25 mm X 5 G.I Strip	Meter	50										
5.4.2	25 mm X 5 Copper Strip	Meter	25										
5.5	Cosmos roma 40mm dia 2Mtrs length with moisture enhancer 25 Kg.	each	25										
5.6	Cosmos roma 40mm dia 3Mtrs length with moisture enhancer 25 Kg.	each	10										
5.7	Earth bit testing and value writing in paint	each	150										
	SUB TOTAL 5												

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
6	CABLES												
6.1	Supply of aluminium Armoured XLPE UG CABLE 1.1KV as per ISI Specification IS:7098/(Part-II) 1985 with latest amendments												
6.1.1	2x16.0 Sq.mm	Meter	250										
6.1.2	3.5x185 Sq.mm	Meter	200										
6.1.3	3.5x240 Sq.mm	Meter	200										
6.1.4	3.5x300 Sq.mm	Meter	100										
6.2	Find out LT cable fault for all sizes	each	50	NA	NA	NA	NA						
6.3	Excavation and refilling the trench with sand,brick or cable dub(cover) LT Cable Joint Per Location 3.5 X120 -300Sq.mm	each	10										

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
6.4	Supply and laying of following size Double walled Corrugated High Density Polyethylene pipe having corrugation on the outer wall and plain surface inner wall conforming to IS 14930 part- I and part -II complete with necessary HDPE fitting for protection of 1.1 KV grade under ground cable directly in ground at a depth 75cm including excavation and refilling the trench etc as required.												
6.4.1	77mm/63mm (OD/ ID)	Meter	350										
6.4.2	110mm/94mm (OD/ ID)	Meter	250										
6.4.3	120mm/103mm (OD/ID)	Meter	300										
6.4.4	180mm/152mm (OD/ID)	Meter	300										
	SUB TOTAL 6												
7	MV CABLE LAYING												
7.1	Laying/removing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench and the same cables handover to EMC stores etc. as required.												
7.1.1	Removing Upto 400sq. mm	Metre	5000	NA	NA	NA	NA						

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
	SUB TOTAL 7												
8	CABLE ROUTE MARKER												
8.1	Supplying and making LT cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 30 cm with a thickness of 8cm including inscription duly engraved as required.	each	50										
8.2	Supplying and making HT cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 92 cm X 92 cm with a thickness of 10cm including inscription duly engraved as required.	each	20										
	SUB TOTAL 8												
9	MV /HV CABLE TERMINATION /JOINT KITS												
9.1	Supply and Making MV cable end indoor/outdoor termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.												
9.1.1	2 X 16-50 sq. mm	Each	25										
9.1.2	3½ X 70-95sq. mm	Each	20										

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words	
					5%	14.50%								
					A	B								C
9.1.3	3½ X 120-185 sq. mm	Each	20											
9.1.4	3½ X 240-400 sq. mm	Each	50											
9.1.5	4 X 16 sq. mm	Each	20											
9.1.6	4 X 25-35 sq. mm	Each	10											
9.1.7	4 X 50 sq. mm	Each	20											
9.2	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.													
9.2.1	2 X 16-50 sq. mm	Each	15											
9.2.2	3½ X 70-95 sq. mm	Each	10											
9.2.3	3½ X 120-185 sq. mm	Each	5											
9.2.4	3½ X 240 sq. mm	Each	10											

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words	
					5%	14.50%								
					A	B								C
9.2.5	3½ X 300 sq. mm	Each	5											
9.2.6	3½ X 400 sq. mm	Each	5											
9.2.7	4 X 16 sq. mm	Each	5											
9.2.8	4 X 25-35sq. mm	Each	10											
9.2.9	4 X 50 sq. mm	Each	10											
SUB TOTAL 9														
10	Fixing of Meters/Hose/Acrylic sheets/UPS													
10.1	Fixing of energy meter/multifunction meter/ammeter/voltmeter/selector switch for following ratings suitable operation on 230/415 Volts, 1 ph,3 ph 50 Hz, AC Supply as required.	Each	20	NA	NA	NA	NA							
10.2	Energy meter reading taking in Qtrs zone including entry of reading in cards 5-10th of every cycle ,preparation of bills and issue of bills for every 2months	Each	3600	NA	NA	NA	NA							
10.3	Energy meter reading taking in Mess and shopping stalls including entry of reading in cards 5-10th of every cycle ,preparation of bills and issue of bills for every month	Each	120	NA	NA	NA	NA							
10.4	Providing temporary supply to stalls and mess areas including preparation of bills	Each	30	NA	NA	NA	NA							

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
10.5	Labour charges for installing UPS/inverter with connections as required.												
10.6	2-5kVA,1Ph/3Ph	Each	10	NA	NA	NA	NA						
10.7	7.5-20kVA,1Ph/3Ph	Each	5	NA	NA	NA	NA						
10.8	Carried out Maintenance of DBs,MV panel	Each	200	NA	NA	NA	NA						
SUB TOTAL 10													
11	MCCB,MCB&DB'S DSR 2012												
11.1	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections,testing and commissioning etc. as required including removing charges.												
11.1.1	Single Pole	Each	250										
11.1.2	Double Pole	Each	50										

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words	
					5%	14.50%								
					A	B								C
11.1.3	Triple Pole	Each	20											
11.1.4	Four Pole	Each	15											
11.1.5	Double/Triple/Four pole enclosure	Each	25											
11.2	Supplying and fixing 240/415 volts, "C" curve, ELCB suitable for inductive load of following poles in the existing MCB DB complete with connections,testing and commissioning etc. as required including removing charges.													
11.2.1	25-40A , DP,30 mA	Each	50											
11.2.2	40-63A FP 30mA	Each	5											
11.3	Supplying and fixing for following amps rating, 240/415 volts,"C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.													
11.3.1	Triple pole 40-63A MCB	Each	30											

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
11.3.2	Four pole 40-63A MCB	Each	5										
11.4	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 1 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	30										
SUB TOTAL 11													
12	GEYSER/WAMMER/Grinder/Chapathi machine												
12.1	Fixing of geyser	each	5	NA	NA	NA	NA						
12.2	Geyser fault attending works	each	25	NA	NA	NA	NA						
12.3	Supply and replacing of Geyser coil	each	10										
12.4	Supply and replacing of thermostat	each	10										
12.5	PEST O FLASH fault attended works	each	10	NA	NA	NA	NA						

SLNo	Description	Unit	Qty	Material Cost	VAT		Total Cost incl VAT B+C	Labour cost	Service Tax 15%	Total Cost E+F	Total amount /Qty (D+G)	Total amount A*H	Rate in Words
					5%	14.50%							
					A	B							
12.6	Mess Wamer Fault attended works	each	10	NA	NA	NA	NA						
12.7	Supply and replacing of Wammer coil works	each	10										
12.8	Grinder fault attended for three phase and single phase.	each	10	NA	NA	NA	NA						
12.9	Chappathy mixed machine fault attended	each	5	NA	NA	NA	NA						
12.10	fuse of calls	each	150	NA	NA	NA	NA						
SUB TOTAL 12													
NET AMOUNT IN RS													

Note : NA - Not Applicable