

TENDER NO: DMRC/ELECT./IT&PD/ILBS/EL/01



DELHI METRO RAIL CORPORATION LIMITED
(A Joint Venture of Govt. of INDIA & GNCTD)

TENDER DOCUMENT

FOR

ELECTRICAL WORKS

Of

Institute of Liver & Biliary Sciences (ILBS),Phase-2

D-1,Vasant Kunj ,Delhi-110070

Volume - 4

BILL OF QUANTITIES

DELHI METRO RAIL CORPORATION LIMITED
Metro Bhawan , 13 , Fire Brigade Lane
Barakhamba Road , New Delhi-110001, India

TENDER NO: DMRC/ELECT./IT&PD/ILBS/EL/01

ELECTRICAL Works of

Institute of Liver & Biliary Sciences (ILBS) , Phase-2

ILBS,D-1,Vasant Kunj,Delhi-110070

SL. NO. DESCRIPTION

VOLUME – 1

- 1 Notice Inviting Tender
- 2 Instruction to Tenderers (Including Annexures)
- 3 Initial Filter (PQ)
- 4 Special Conditions of Contract
- 5 DMRC Labour Welfare Rules

VOLUME – 2

- 1 Special Specifications

VOLUME – 3 : NOT USED

VOLUME – 4

- 1 Bill of Quantities

VOLUME – 5

- 1 Tender Drawings

VOLUME – 6

- 1 Condition of Contract of Safety , Health & Environment
- 2 General Conditions of Contract

MAIN SUMMARY SHEET

ELECTRICAL WORKS OF Institute of Liver & Biliary Sciences , Vasant Kunj,Delhi

(A) MAIN SUMMARY SHEET FOR ELECTRICAL WORKS (DMRC/ELECT./IT&PD/ILBS/EL/01)

Sub Head	Description	Basic Amount	Single Percentage (%) above/below
1	Electrical Works	585,039,699	In Figures % above/below
			In Words% above/below

B.) COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT

S.NO.	Description	1st year Rates	2nd Year Rates	3rd Year Rates	4th Year Rates	5th Year Rates	Total Rates for 5 Years
1	Non - Comprehensive AMC of DG Sets (including DG Synchronisation/ AMF Panels and other accessories)						
2	Non - Comprehensive AMC of Transformer System Complete as per BOQ (For 3 nos. 15000 kVA & 3 nos. 2000 kVA each)						
3	Non - Comprehensive AMC of HT Panels Board Complete as per BOQ						
4	Comprehensive AMC of UPS System						
5**	Total (In Figures)						
6	Total (In Words)						

**** - Rates quoted against B5 (Total For 5 Years) will be included in Electrical Works (A) above for Financial evaluation**

C) Total cost for FINANCIAL EVALUATION OF THIS TENDER (A1+ B5)	
1	Total (In Figures)
2	Total (In Words)

We have gone through the Clause 10.6 of ITT of Volume 1 regarding possibility of exemptions available to DMRC and our responsibilities as given in the above Clause and we hereby undertake to comply with the same.

SIGNATURE OF TENDERER

GENERAL INSTRUCTIONS :-

1	All Bill of Quantities Items are to be read in Conjunction with Specifications & Drawings whether specified or not.
2	All MCCBs shall be of Microprocessor based Release Type.
3	Selection of All Switch gear components should be of same Make to achieve the coordination. In order to meet total discrimination requirement, if any change in the Rating/ Frame size of breakers needed , the same shall be provided at no extra cost to DMRC
4	All LV & Control Cables shall be of FRLS Type whether specified or not other than Fire Survival Cables & any other Specific Cable which has been separately specified.
5	All Indoor Equipments/ Panels shall have Protection of IP 54 or Better whether specified or not other than Dry Type Transformer and any other Equipment/ Panel where Protection has been separately specified
6	All Outdoor Equipments/ Panels shall have Protection of IP 65 or Better whether specified or not. All outdoor & Indoor Panels shall include necessary PT AND CT's for metering and protection
7	All PVC Insulated Stranded Copper Conductor Wires shall be of HFLS/ZHFR type unless otherwise specified separately.
8	For those Equipments/Systems which are either Controlled & Monitored by BMS or Monitored by BMS, Adequate No. of Potential Free NO/NC Contacts shall be provided whether specified or not. All such Equipments/ Systems shall be BMS Compatible.
9	BMS System shall use BACNET Protocol & all BMS Components shall be BACNET Compatible whether specified or not.
10	All Systems/ Equipments/ Materials shall be such provided so as to obtain highest order of Reliability & Availability.
11	All cable trays whether specifically mentioned or not shall be of GI only with minimum 2mm thickness and perforated Type Cable Tarys will be of Double Bended at Sides.
12	All conduits shall be of Rigid PVC LHSFT alloy low in halogens pipe type only, unless otherwise specified separately.
13	In XLPE Cable Conductor Screen , XLPE Inuslation and Insulation Screen shall all be extruded in one Operation. No Wrapping Type Cable shall be acceptable
14	Contractor/OEM's of Cables & Wires must produce the test report of desired wires & cables , duly tested from NTH/CPRI/ERDA , at the time of inspection by DMRC's representative and only so tested wires/cables are to be used at site.
15	This Tender is for meeting the functional requirements. If any Item is left out, It will be considered included in the Price of the whole works. Tenderer may quote accordingly to meet the Functional requirement.
16	As between the written description of the item in Bill of Quantities and the detailed description in the specification of the same item, the former shall prevail.

SUMMARY OF ESTIMATE FOR ELECTRICAL WORKS FOR ILBS ,PHASE-2

SECTION NO	DESCRIPTION OF WORK	AMOUNT (Rs.)
1	SUBSTATION EQUIPMENT & AUXILLARY	37,582,376.00
2	BUSDUCT & TAPOFF BOXES	159,088,376.00
3	ELECTRICAL PANELS INSTALLATION	72,864,072.00
4	CABLE TRENCH & TRAY	13,593,050.00
5	DISTRIBUTION BOARDS	31,410,225.00
6	L.T. CABLES	51,550,300.00
7	CABLE TERMINATION	703,224.00
8	POINT WIRING	25,130,020.00
9	LIGHT FIXTURES AND FANS	33,923,790.00
10	EARTHING	8,529,656.00
11	TELEPHONE/ COMPUTER NETWORKING	8,423,925.00
12	POWER BACK UP SYSTEMS	124,851,973.00
13	EXTERNAL ELECTRIFICATIONS	8,383,630.00
14	LIGHTNING PROTECTION SUSTEM	738,536.00
15	NURSE CALLING SYSTEM	5,313,110.00
16	DIMMING SYSTEM	1,077,300.00
17	MISCELLANEOUS WORKS	1,876,136.00
TOTAL COST FOR ELECTRICAL WORKS		585,039,699.00

MAIN SUMMARY SHEET

ELCTRICAL WORKS OF ILBS, PH-2 , VASANT KUNJ , DELHI

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
SECTION - 1.0 SUBSTATION EQUIPMENT AND AUXILIARY					
1.0	This includes the scope of supply, installation, testing & commissioning of equipments as listed below.The main equipments materials & erection materials or hardware shall be supplied & installed by the contractor.The equipment shall be supplied from factory, unloaded from transport shifted to store, reshifted from store to place of erection, unpacking, site assembly of loosely furnished accessories, installation of foundation (civil work done by civil contractor), proper alignment, tightning of busbars with required torque as instructed by engineer in-charge and specifications of the				
1.1	<p>Supply, Installation testing and Commissioning of Outdoor,Oil type transformer having 33 KV/0.415 KV voltage levels and of 1500 KVA with OLTC & RTCC along with first fill of oil, all accessories and components as per Specifications/ data sheet, drawings and all applicable standards. Rate shall be inclusive of transportation, mounting channels foundaton bolts , Inteconnection between accssories mounted onthe transformer & marshalling box, checking of foundation level, welding of stoppers on foundation channels, including all labour and materials.</p> <p>Potential free contacts to send OTI, WTI alarm and trip signal from transformer to BMS and Tap position from RTCC panel to BMS shall be provided.</p> <p>As per requirements but not limited to the accessories 'like Buchholz relay , minimum oil level guage ,oil and winding temperature indicator, magnetic oil gauge, each 'with alarm and trip contacts including rating plate ,terminal marking plate , lifting lugs two earthing terminals 'with lugs , thermometer pockets jacking pads, 'indicating type silica jel breather, conser- vator tank with 'oil indicator , earthing studs for main tank, top cover etc 'under carriage fitted with flat bidirectional rollers, transformer oil ,10 % extra of total requirement in non returnable container for outdoor storage.</p>	3.00	nos	1,768,247.00	5304741.0
1.2	<p>Supply, Installation testing and Commissioning of Outdoor,Oil type transformer having 33 KV/0.415 KV voltage levels and of 2000 KVA with OLTC & RTCC along with first fill of oil, all accessories and components as per Specifications/ data sheet, drawings and all applicable standards. Rate shall be inclusive of transportation, mounting channels foundaton bolts , Inteconnection between accssories mounted onthe transformer & marshalling box, checking of foundation level, welding of stoppers on foundation channels, including all labour and materials.</p> <p>Potential free contacts to send OTI, WTI alarm and trip signal from transformer to BMS and Tap position from RTCC panel to BMS shall be provided.</p> <p>As per requirements but not limited to the accessories 'like Buchholz relay , minimum oil level guage ,oil and winding temperature indicator, magnetic oil gauge, each 'with alarm and trip contacts including rating plate ,terminal marking plate , lifting lugs two earthing terminals 'with lugs , thermometer pockets jacking pads, 'indicating type silica jel breather, conser- vator tank with 'oil indicator , earthing studs for main tank, top cover etc 'under carriage fitted with flat bidirectional rollers, transformer oil ,10 % extra of total requirement in non returnable container for outdoor storage.</p>	3.00	nos	2,292,172.00	6876516.0

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
1.3	<p>Supply, Installation, testing and commissioning of 33 KV indoor, 1250A, 400MVA, 26.3KA 1 sec, load drawout type HT VCB panel with 2 incoming breakers (interlocked) 10500 KVA each and 4 outgoing breakers (2 nos 6000KVA each & 2 nos 5000KVA each) including loose items for the ckt. Bkr. with all metering and protection as per the specification/ Dat sheets and SLD/ Drawings.</p> <p>Rate shall also include provision of minimum 200 AH 30/24 volt SMF VRLA Battery including Float cum Boost Thyrister/IGBT controlled battery charger with one no. as Hot standby suitable for operation at 240 volt AC 50 Hz supply, DCDB with 63A DP MCB as incomer and 16 nos SP MCB as outgoing complete as per specifications and as required</p> <p>All necessary interlocking arrangements to be provided as per standards and as indicated in the drawings. This should also cover the necessary BMS requirements.</p>	1.00	set	7,682,764.00	7682764.0
1.4	<p>Supply, Installation, testing and commissioning of 33 KV indoor, 1250A, 400MVA, 26.3KA 1 sec, load drawout type HT VCB panel with 2 incoming breakers (interlocked) 6000 KVA each with 1 breaker as buscoupler (4000 KVA) and 4 outgoing breakers (2000KVA each) including loose items for the ckt. Bkr. with all metering and protection as per the specification/ Dat sheets and SLD/ Drawings.</p> <p>Rate shall also include provision of minimum 200 AH 30/24 volt SMF VRLA Battery including Float cum Boost Thyrister/IGBT controlled battery charger with one no. as Hot standby suitable for operation at 240 volt AC 50 Hz supply, DCDB with 63A DP MCB as incomer and 16 nos SP MCB as outgoing complete as per specifications and as required</p> <p>All necessary interlocking arrangements to be provided as per standards and as indicated in the drawings. This should also cover the necessary BMS requirements.</p>	2.00	set	8,547,247.00	17094494.0
1.5	Supply, Making, testing and commissioning of 33KV H.T. joints - outdoor type with Raychem kits (240 sqmm)	6.00	nos	12,588.00	75528.0
1.6	Supply, Making, testing and commissioning of 33 KV H.T. joints - indoor type with Raychem kits (240 sqmm)	18.00	nos	8,938.00	160884.0
1.7	Supply and Fixing of ISI marked 6.5 kg Co2 type portable fire extinguisher with necessary clamps, supports and trolley in Panel room.	6.00	nos	7,301.00	43806.0
1.8	Supply and fixing of first aid box as per relevant standards.	5.00	nos	517.00	2585.0
1.9	Supply and fixing of 3 nos. fire buckets with floor stand/ wall mounting stand and first filling of sand as per relevant standards.	6.00	nos	1,433.00	8598.0
1.10	Supply and fixing of 1 x 20 W FL T/L self contained emergency light with dry type maintenance free battery.	20.00	nos	1,993.00	39860.0
1.11	Supply and fixing of 1.1 KV grade 6 mm thick 1000 mm wide rubber insulating mat as per relevant standards.	500.00	sq mtr	413.00	206500.0
1.12	Supply and fixing of 33 KV grade 12 mm thick 1000 mm wide rubber insulating mat as per relevant standards.	100.00	sq mtr	861.00	86100.0
TOTAL OF SECTION 1.0					37,582,376.00

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
SECTION - 2.0 Busduct & Tap off boxes					
2.1	Supply, Installation, testing and connection of 3200 A FP internally earthed Al. Bus duct with all necessary fabrication of supports and other accessories works complete as per specification. All joints / tees / bends / phase change over boxes etc are deemed to be included in the supply. - Sandwich type - IP 55 unless otherwise specified in item. Minimum fault level of Bus duct shall be as per panel but not less than 35 kA. Arrangement for tapping earth as per requirement & approved shop drawings.	800.00	rmt	52,722.00	42177600.0
2.2	do as above but with 2500 A FP - Sandwich type.	400.00	rmt	35,939.00	14375600.0
2.3	do as above but with 2000 A FP - Sandwich type .	400.00	rmt	30,491.00	12196400.0
2.4	do as above but with 2000 A TP+2N - Sandwich type.	110.00	rmt	33,039.00	3634290.0
2.5	do as above but with 1600 A FP - Sandwich type.	450.00	rmt	23,138.00	10412100.0
2.6	do as above but with 1250 A FP - Sandwich type.	60.00	rmt	18,421.00	1105260.0
2.7	do as above but with 1000 A FP - Sandwich type.	175.00	rmt	15,426.00	2699550.0
2.8	do as above but with 800 A FP - Sandwich type.	425.00	rmt	13,329.00	5664825.0
2.9	do as above but with 630 A FP - Sandwich type.	1,100.00	rmt	11,396.00	12535600.0
2.10	do as above but with 400 A FP - Sandwich type.	650.00	rmt	9,376.00	6094400.0
2.11	do as above but with 315 A FP - Sandwich type.	250.00	rmt	9,376.00	2344000.0
2.12	do as above but with 250 A FP - Sandwich type.	850.00	rmt	9,376.00	7969600.0
2.13	do as above but with 160 A FP - Sandwich type.	850.00	rmt	9,376.00	7969600.0
2.14	do as above but with 125 A FP - Sandwich type.	325.00	rmt	9,376.00	3047200.0

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
2.15	do as above but with 100 A FP - Sandwich type.	225.00	rmt	9,376.00	2109600.0
2.16	do as above but with 3200 A FP - Sandwich type - IP 66	175.00	rmt	62,026.00	10854550.0
2.17	do as above but with 2500 A FP - Sandwich type - IP 66	75.00	rmt	42,283.00	3171225.0
2.18	Supply, Installation, testing and connection of 400A MCCB, 35ka type tap off boxes for tapping power from bus duct.	2.00	nos.	53,588.00	107176.0
2.19	Supply, Installation, testing and connection of 250A MCCB, 25ka type tap off boxes for tapping power from bus duct.	2.00	nos.	44,009.00	88018.0
2.20	Supply, Installation, testing and connection of 200A MCCB, 25ka type tap off boxes for tapping power from bus duct.	10.00	nos.	42,154.00	421540.0
2.21	Supply, Installation, testing and connection of 160A MCCB, 25ka type tap off boxes for tapping power from bus duct.	6.00	nos.	36,592.00	219552.0
2.22	Supply, Installation, testing and connection of 125A MCCB, 25ka type tap off boxes for tapping power from bus duct.	8.00	nos.	34,040.00	272320.0
2.23	Supply, Installation, testing and connection of 100A MCCB, 25ka type tap off boxes for tapping power from bus duct.	44.00	nos.	31,027.00	1365188.0
2.24	Supply, Installation, testing and connection of 63A MCCB, 25ka type tap off boxes for tapping power from bus duct.	64.00	nos.	31,027.00	1985728.0
2.25	Supply, Installation, testing and connection of 40A MCCB, 25ka type tap off boxes for tapping power from bus duct.	194.00	nos.	31,027.00	6019238.0
2.26	Supply, Installation, testing and connection of 32A MCCB, 25ka type tap off boxes for tapping power from bus duct.	8.00	nos.	31,027.00	248216.0
TOTAL OF SECTION 2.0					159,088,376.00
SECTION - 3.0 ELECTRICAL PANELS INSTALLATION					
3.0	<p>Supply, Unloading at site, shifting to final location, assembling, leveling, grouting, erecting, testing and commissioning of following panels as per drawings. Any sort of fabrication work required for erection of panel at site shall be done by the contractor without any extra cost to DMRC.</p> <p>The breaker panels shall be provided with potential free contacts or any other field devices required to accept command from BMS and to send status/any other signals to BMS as per IO Summary/drawings apart from the generally required components</p> <p>All necessary interlocking arrangements to be provided as per standards and as indicated in the drawings. This should also cover the necessary BMS requirements.</p> <p>All allied and implied items necessary for complete functioning of the Panel shall be provided at no extra cost. Necessary CT's for metering and protection to be included.</p>				
3.1	Main L.t panel - 1 (Sub Station) - Totally Type Tested Assembly (TTA) Type panel complete as per Technical Specifications/ data sheets/ SLD and applicable standards.	1.00	nos	13,158,205.00	13158205.0
	INCOMERS				
	3 nos. 3200 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	2 nos. 3200 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories as buscouplar.				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter EM6400 or equivalent shall indicating A / V / KWH / PF / FREQ / DM / VAR with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	3200 AMP, 65KA, 500 Volts, 3 phase 50 Hz FP Cu. bus bars of suitable length - Current ratio shall be 1 sq mm = 1.2 A				
	OUTGOINGS				
	5 nos. 3200A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	4 nos. 2650A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	3 nos. 800A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	All Outgoing ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				
3.2	Main L.t panel - 2 (Sub Station) - Totally Type Tested Assembly (TTTA) Type panel complete as per Technical Specifications/ data sheets/ SLD and applicable standards.	1.00	nos	9,074,488.00	9074488.0
	INCOMERS				
	3 nos. 2650 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	2 nos. 2650 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories as buscouplar.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter EM6400 shall indicating A / V / KWH / PF / FREQ / DM / VAR with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	2650 AMP,65KA, 650 Volts, 3 phase 50 Hz FP Cu. bus bars of suitable length - Current ratio shall be 1 sq mm = 1.2 A				
	OUTGOINGS				
	4 nos. 2000A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	4 nos. 1600A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	1 nos. 1000A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	2 nos. 800A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	All Outgoing ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				
3.3	LT Bkr. Panel 1-3	3.00	nos	849,913.00	2549739.0
	INCOMERS				
	1 nos. 3200 AMP Four Pole ACB, EDO, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter EM6400 shall indicating A / V / KWH / PF / FREQ / DM / VAR with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	3200 AMP,65KA, 650 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	1 nos. 1600A TP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
3.4	LT Bkr. Panel 4-6	3.00	nos	802,155.00	2406465.0
	INCOMERS				
	1 nos. 2650 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter EM6400 shall indicating A / V / KWH / PF / FREQ / DM / VAR with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	2650 AMP,65KA, 650 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	1 nos. 1265A TP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
3.5	ATS Panel - 1	1.00	nos	4,835,041.00	4835041.0
	INCOMERS				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	3 nos. 3200 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with the display of all the parameters and all standard accessories.				
	BUS BARS				
	3200 AMP,65KA, 650 Volts, 3 phase 65 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
3.6	ATS Panel - 2	1.00	nos	7,558,123.00	7558123.0
	INCOMERS				
	6 nos. 2500 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with the display of all the parameters and all standard accessories.				
	1 no. programmable PLC as specified in technical specification/ SLD and as required to implement the integration/ control scheme as per requirement of project.				
	BUS BARS				
	2500 AMP,65KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
3.7	APFCR Panel (500 KVAR)	3.00	nos	675,686.00	2027058.0
	INCOMERS				
	1 nos. 1250 AMP Tripple Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	1250 AMP,65KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	4 nos.100 KVAR Capacitor bank along with necessary fuses & SSR				
	1 nos.40 KVAR Capacitor bank along with necessary fuses & SSR				
	1 nos.30 KVAR Capacitor bank along with necessary fuses & SSR				
	1 nos.20 KVAR Capacitor bank along with necessary fuses & SSR				
	1 nos.10 KVAR Capacitor bank along with necessary fuses & SSR				
3.8	APFCR Panel (700 KVAR)	3.00	nos	863,180.00	2589540.0
	INCOMERS				
	1 nos. 1600 AMP Tripple Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	1600 AMP, 65 KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	6 nos.100 KVAR Capacitor bank along with necessary fuses & SSR				
	1 nos.40 KVAR Capacitor bank along with necessary fuses & SSR				
	1 nos.30 KVAR Capacitor bank along with necessary fuses & SSR				
	1 nos.20 KVAR Capacitor bank along with necessary fuses & SSR				
	1 nos.10 KVAR Capacitor bank along with necessary fuses & SSR				
3.9	Sub LT panel - 1 - Totally Type Tested Assembly (TTA) Type panel complete as per Technical Specifications/ data sheets/ SLD and applicable standards.	1.00	nos	5,649,732.00	5649732.0
	INCOMERS				
	1 nos. 3200 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	3200 AMP,65KA, 500 Volts, 3 phase 50 Hz FP Cu. bus bars of suitable length - Current ratio shall be 1 sq mm = 1.2 A				
	OUTGOINGS				
	2 nos. 3200A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	1 nos. 2000A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	2 nos. 1000A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	3 nos. 800A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	All Outgoing ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				
3.10	Sub LT panel - 2 - Totally Type Tested Assembly (TTTA) Type panel complete as per Technical Specifications/ data sheets/ SLD and applicable standards. INCOMERS	1.00	nos	3,964,264.00	3964264.0
	1 nos. 3200 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	3200 AMP, 65KA, 500 Volts, 3 phase 50 Hz FP Cu. bus bars of suitable length - Current ratio shall be 1 sq mm = 1.2 A				
	OUTGOINGS				
	2 nos. 1000A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	2 nos. 800A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	2 nos. 630 AMPS FPMCCB, 35KA with Micro processor releases				
	2 nos. 400 AMPS FPMCCB, 35KA with Micro processor releases				
	2 nos. 300 AMPS FPMCCB, 25KA with Micro processor releases				
	2 nos. 200 AMPS FPMCCB, 25KA with Micro processor releases				
	All Outgoing ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
3.11	Sub L.T panel - 3 - Totally Type Tested Assembly (TTA) Type panel complete as per Technical Specifications/ data sheets/ SLD and applicable standards.	1.00	nos	4,472,923.00	4472923.0
	INCOMERS				
	1 nos. 3200 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	3200 AMP, 65KA, 500 Volts, 3 phase 50 Hz FP Cu. bus bars of suitable length - Current ratio shall be 1 sq mm = 1.2 A				
	OUTGOINGS				
	2 nos. 2000A FP ACB, 65KA-MDO type with O/L, S/C, E/F & S/T				
	1 nos. 1000A FP ACB, 65KA-MDO type with O/L, S/C, E/F & S/T				
	6 nos. 500 AMPS FPMCCB, 35KA with Micro processor releases				
	2 nos. 400 AMPS FPMCCB, 35KA with Micro processor releases				
	1 nos. 250 AMPS FPMCCB, 25KA with Micro processor releases				
	All Outgoing ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				
3.12	HVAC Panel	1.00	nos	663,303.00	663303.0
	INCOMERS				
	1 nos. 1600 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	1600 AMP, 65KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	7 nos. 630 AMPS FPMCCB, 35KA with Micro processor releases				
	All Outgoing ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
3.13	Main UPS Panel	1.00	nos	1,677,716.00	1677716.0
	INCOMERS				
	2 nos. 2000 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	2000 AMP,65KA, 500 Volts, 3 phase 50 Hz TP + 2N + E Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 1600A FP ACB, 50ka-EDO type with O/L, S/C, E/F & S/T				
	2 nos. 200 AMPS FPMCCB, 25KA with Micro processor releases				
3.14	Lift panel - 1	1.00	nos	596,973.00	596973.0
	INCOMERS				
	1 nos. 400 AMP Four Pole MCCB, 35 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	400 AMP,35KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	12 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases and E/F module				
3.15	Lift panel - 2	1.00	nos	596,973.00	596973.0
	INCOMERS				
	1 nos. 400 AMP Four Pole MCCB, 35 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	400 AMP,35KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	12 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases and E/F module				
3.16	Main Lighting Panel	1.00	nos	461,919.00	461919.0
	INCOMERS				
	1 nos. 1000 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	1000 AMP, 50KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 630 AMPS FPMCCB, 35KA with Micro processor releases				
	7 nos. 40 AMPS FPMCB, 10KA				
	All Outgoing ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				
3.17	Typ. External light panel	5.00	nos	28,301.00	141505.0
	INCOMERS				
	1 nos. 40 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	TIMER				
	All incoming with 40A DIGITAL, 365 DAYS, 24 HRS. PROGRAMMABLE TIMER WITH SUITABLE CONTACTOR.				
	BUS BARS				
	40 AMP, 25KA, 500 Volts, 3 phase 25 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	5 nos. 20 AMPS FPMCB, 10KA				
	4 nos. 16 AMPS DPMCB, 10KA				
3.18	Utility panel	1.00	nos	52,180.00	52180.0
	INCOMERS				
	1 nos. 400 AMP Four Pole MCCB, 36 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	400 AMP, 36KA, 500 Volts, 3 phase 25 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	4 nos. 63 AMPS FPMCB, 10KA				
	6 nos. 40 AMPS FPMCB, 10KA				
	7 nos. 25 AMPS FPMCB, 10KA				
3.19	Stack parking panel	1.00	nos	403,288.00	403288.0
	INCOMERS				
	1 nos. 400 AMP Four Pole MCCB, 35 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	BUS BARS				
	400 AMP,35KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
	11 nos. 63 AMPS FPMCCB, 25KA with Micro processor releases				
	2 nos. 40 AMPS FPMCCB, 25KA with Micro processor releases				
3.20	Fire & Smoke evacuation panel	1.00	nos	941,891.00	941891.0
	1 nos. 3200 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	3200 AMP, 65KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 1000A FP ACB, 65kA - MDO type with O/L, S/C, E/F & S/T				
	2 nos. 800A FP ACB, 65kA - MDO type with O/L, S/C, E/F & S/T				
	3 nos. 400 AMPS FPMCCB, 36KA with Micro processor releases				
	1 nos. 400 AMPS FPMCCB, 36KA with Micro processor releases				
	1 nos. 250 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 125 AMPS FPMCCB, 25KA with Micro processor releases				
	2 nos. 40 AMPS FPMCCB, 25KA with Micro processor releases				
3.21	Lower basement fire ventilation panel-1 INCOMERS	1.00	nos	278,588.00	278588.0
	1 nos. 400 AMP Four Pole MCCB, 36 KA with Microprocessor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	BUS BARS				
	400 AMP,36KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 125 AMPS FPMCCB, 25KA with Micro processor releases				
	3 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
3.22	Lower basement fire ventilation panel-2	1.00	nos	278,588.00	278588.0
	INCOMERS				
	1 nos. 400 AMP Four Pole MCCB, 35 KA with Microprocessor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	400 AMP,35KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 200 AMPS FPMCCB, 25KA with Micro processor releases				
	2 nos. 150 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
3.23	Terrace Press. Panel	1.00	nos	267,091.00	267091.0
	1 nos. 1000 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	1000 AMP, 65KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 400 AMPS FPMCCB, 35KA with Micro processor releases				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	2 nos. 200 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 160 AMPS FPMCCB, 25KA with Micro processor releases				
3.24	Typ. Liff panel	20.00	nos	83,576.00	1671520.0
	INCOMERS				
	1 nos. 100 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	100 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
	5 nos. 25 AMPS DPMCB, 10KA				
3.25	Sub AHU panel-1	1.00	nos	6,745.00	6745.0
	INCOMERS				
	1 nos. 2000 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	2000 AMP, 65KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	4 nos. 630 AMPS FPMCCB, 35KA with Micro processor releases				
	3 nos. 250 AMPS FPMCCB, 25KA with Micro processor releases				
3.26	Sub AHU panel-2	1.00	nos	941,579.00	941579.0
	INCOMERS				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	1 nos. 2000 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V / KWH with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	2000 AMP, 65KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	4 nos. 630 AMPS FPMCCB, 35KA with Micro processor releases				
	3 nos. 250 AMPS FPMCCB, 25KA with Micro processor releases				
3.27	Sub Raw power panel-1	1.00	nos	570,441.00	570441.0
	INCOMERS				
	1 nos. 1000 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	1000 AMP, 65KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 630 AMPS FPMCCB, 35KA with Micro processor releases				
	2 nos. 300 AMPS FPMCCB, 25KA with Micro processor releases				
	2 nos. 250 AMPS FPMCCB, 25KA with Micro processor releases				
	2 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
3.28	Sub Raw power panel-2	1.00	nos	570,441.00	570441.0
	INCOMERS				
	1 nos. 1000 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	1000 AMP, 65KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 630 AMPS FPMCCB, 35KA with Micro processor releases				
	2 nos. 300 AMPS FPMCCB, 25KA with Micro processor releases				
	2 nos. 250 AMPS FPMCCB, 25KA with Micro processor releases				
	2 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
3.29	Sub UPS power panel-1	1.00	nos	941,891.00	941891.0
	INCOMERS				
	1 nos. 1600 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	1600 AMP, 65KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 800A FP ACB, 65KA-MDO type with O/L, S/C, E/F & S/T				
	2 nos. 400 AMPS FPMCCB, 35KA with Micro processor releases				
	3 nos. 250 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 160 AMPS FPMCCB, 25KA with Micro processor releases				
3.30	Sub UPS power panel-2	1.00	nos	30,419.00	30419.0
	INCOMERS				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	1 nos. 1600 AMP Four Pole EDO, ACB, 65 KA Breaking Capacity with all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	1600 AMP, 65KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 800A FP ACB, 65kA-MDO type with O/L, S/C, E/F & S/T				
	2 nos. 400 AMPS FPMCCB, 35KA with Micro processor releases				
	3 nos. 250 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 160 AMPS FPMCCB, 25KA with Micro processor releases				
3.31	Sub Lighting panel-1	1.00	nos	376,757.00	376757.0
	INCOMERS				
	1 nos. 630 AMP Four Pole MCCB, 35 KA with Microprocessor release & all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	630 AMP, 35KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	5 nos. 160 AMPS FPMCCB, 25KA with Micro processor releases				
	3 nos. 125 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 32 AMPS FPMCCB, 25KA with Micro processor releases				
3.32	Sub Lighting panel-2	1.00	nos	376,757.00	376757.0
	INCOMERS				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	1 nos. 630 AMP Four Pole MCCB, 35 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	All Incoming ACB/MCCB shall have multi function meter - parameters - digital multifunction meter shall indicating A / V with RS-485 port				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	630 AMP,35KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	5 nos. 160 AMPS FPMCCB, 25KA with Micro processor releases				
	3 nos. 125 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 32 AMPS FPMCCB, 25KA with Micro processor releases				
3.33	Ahu Sub panel-1	1.00	nos	245,865.00	245865.0
	INCOMERS				
	1 nos. 200 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 200 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	250 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 63 AMPS FPMCB, 10KA				
3.34	Ahu Sub panel-2	1.00	nos	226,408.00	226408.0
	INCOMERS				
	1 nos. 200 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 200 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	200 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
	3 nos. 63 AMPS FPMCB, 10KA				
3.35	Ahu Sub panel-3	1.00	nos	104,359.00	104359.0
	INCOMERS				
	1 nos. 200 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 200 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	200 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 40 AMPS FPMCB, 10KA				
3.36	Ahu Sub panel-4	1.00	nos	104,359.00	104359.0
	INCOMERS				
	1 nos. 200 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 200 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	200 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
3.37	Ahu Sub panel-5	1.00	nos	169,806.00	169806.0
	INCOMERS				
	1 nos. 300 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 300 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	300 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	1 nos. 150 AMPS FPMCCB, 25KA with Micro processor releases				
	2 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 63 AMPS FPMCB, 10KA				
3.38	Ahu Sub panel-6	1.00	nos	153,887.00	153887.0
	INCOMERS				
	1 nos. 63 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 63 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	63 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	OUTGOINGS				
	3 nos. 40 AMPS FPMCCB, 25KA with Micro processor releases				
3.39	Ahu Sub panel-7	1.00	nos	169,806.00	169806.0
	INCOMERS				
	1 nos. 125 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 125 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	125 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
3.40	Ahu Sub panel-8	1.00	nos	153,887.00	153887.0
	INCOMERS				
	1 nos. 40 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 40 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	40 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 40 AMPS FPMCCB, 25KA with Micro processor releases				
3.41	Ahu Sub panel-9	1.00	nos	135,314.00	135314.0
	INCOMERS				
	1 nos. 40 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	1 nos. 40 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	40 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 32 AMPS FPMCCB, 25KA with Micro processor releases				
3.42	Ahu Sub panel-10	1.00	nos	135,314.00	135314.0
	INCOMERS				
	1 nos. 40 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 40 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	40 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 32 AMPS FPMCCB, 25KA with Micro processor releases				
3.43	Ahu Sub panel-11	1.00	nos	153,887.00	153887.0
	INCOMERS				
	1 nos. 63 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 63 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	BUS BARS				
	63 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 32 AMPS FPMCCB, 25KA with Micro processor releases				
3.44	Ahu Sub panel-12	1.00	nos	153,887.00	153887.0
	INCOMERS				
	1 nos. 63 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 63 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	63 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 63 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 40 AMPS FPMCCB, 25KA with Micro processor releases				
3.45	Ahu Sub panel-13	1.00	nos	104,359.00	104359.0
	INCOMERS				
	1 nos. 200 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 200 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	200 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	3 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
3.46	Ahu Sub panel-14	1.00	nos	165,384.00	165384.0
	INCOMERS				
	1 nos. 100 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 100 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	100 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 63 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 40 AMPS FPMCCB, 25KA with Micro processor releases				
3.47	Ahu Sub panel-15	1.00	nos	165,384.00	165384.0
	INCOMERS				
	1 nos. 100 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 100 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	100 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 63 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 40 AMPS FPMCCB, 25KA with Micro processor releases				
3.48	Ahu Sub panel-16	1.00	nos	165,384.00	165384.0
	INCOMERS				

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
	1 nos. 100 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 100 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	100 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 63 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 40 AMPS FPMCCB, 25KA with Micro processor releases				
3.49	Ahu Sub panel-17	1.00	nos	224,639.00	224639.0
	INCOMERS				
	1 nos. 150 AMP Four Pole ATS,communicable with BMS and neutral overlapping type with all standard accessories.				
	1 nos. 150 AMP Four Pole MCCB, 25 KA with Micropro processor release & all standard accessories.				
	INDICATING PANEL				
	C.T. shall be of 15VA class 1 type and shall be resin cast type				
	3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse.				
	3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder.				
	BUS BARS				
	150 AMP,25KA, 500 Volts, 3 phase 50 Hz FP Al. bus bars of suitable length - Current ratio shall be 1 sq mm = 0.8 A				
	OUTGOINGS				
	2 nos. 100 AMPS FPMCCB, 25KA with Micro processor releases				
	2 nos. 63 AMPS FPMCCB, 25KA with Micro processor releases				
	1 nos. 40 AMPS FPMCCB, 25KA with Micro processor releases				
3.50	SITC of 3200AMP. FP ACB, 65 KA - EDO type microprocessor based.	RO	nos	262,037.00	
3.51	SITC of 2500AMP. FP ACB, 65 KA - EDO type microprocessor based.	RO	nos	204,090.00	
3.52	SITC of 2000AMP. FP ACB, 65 KA - EDO type microprocessor based.	RO	nos	166,880.00	
3.53	SITC of 1600AMP. FP ACB, 65 KA - EDO type microprocessor based.	RO	nos	141,315.00	

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
3.54	SITC of 1250AMP. FP ACB, 65 KA - EDO type microprocessor based.	RO	nos	120,793.00	
3.55	SITC of 1000AMP. FP ACB, 65 KA - EDO type microprocessor based.	RO	nos	114,401.00	
3.56	SITC of 800AMP. FP ACB, 65 KA - EDO type microprocessor based.	RO	nos	105,667.00	
3.57	SITC of 630AMP. FP MCCB, 36 KA - microprocessor based.	RO	nos	27,854.00	
3.58	SITC of 400AMP. FP MCCB, 36 KA - microprocessor based.	RO	nos	20,874.00	
3.59	SITC of 250AMP. FP MCCB, 25 KA - microprocessor based.	RO	nos	17,858.00	
3.60	SITC of 160AMP. FP MCCB, 25 KA - microprocessor based.	RO	nos	13,412.00	
3.61	SITC of 100/63/40/32 AMP. FP MCCB, 25 KA - microprocessor based.	RO	nos	10,670.00	
3.62	SITC of earth protection module suitable for 32A to 100A FP MCCB	RO	nos	3,268.00	
3.63	SITC of earth protection module suitable for 125A to 160A FP MCCB	RO	nos	3,794.00	
TOTAL OF SECTION 3.0					72,864,072.00
SECTION - 4.0 CABLE TRENCH AND TRAY					
4.1	Excavation in all sorts of soils including hard rock/ murrum for required depth and back filling. Contractor's scope of work under this item shall include disposal of surplus earth and shoring, shuttering and dewatering if required. Excavation shall be done as per directions of Engineer-in-charge.	1,500.00	mt3	189.00	283500.0
4.2	Supplying and spreading fine sand for a thickness of 100 mm. and providing and laying bricks for cable protection. on all the three sides.	2,000.00	rmt	123.00	246000.0
4.3	Supply and Erecting of perforated type Hot dip G.I. cable tray of 14G of specific dimensions. The cable tray shall be hung from ceiling/ fixed to wall with necessary ceiling suspensors, tee, nuts, nuts etc, together with tees, bends etc. All necessary required hard ware for mounting cable tray along with fabricated supports as per site condition shall be included in cable tray rate. The tray shall be continuously earthed with 19 x 3 mm Cu strip. The cost of strip shall be included along with cable tray rates complete as per specification.			-	
a	50 x 35 mm	200.00	rmt	856.00	171200.0
b	100 x 50 mm	200.00	rmt	967.00	193400.0
c	150 x 50 mm	550.00	rmt	1,082.00	595100.0
d	300 x 50 mm	2,750.00	rmt	1,347.00	3704250.0
e	450 x 50 mm	600.00	rmt	1,465.00	879000.0
f	600 x 50 mm	3,400.00	rmt	1,724.00	5861600.0
g	1000 x 75 mm - ladder type	1,000.00	rmt	1,659.00	1659000.0
TOTAL OF SECTION 4.0					13,593,050.00

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
SECTION - 5.0 DISTRIBUTION BOARDS - FACTORY FABRICATED.					
5.1	Supply installation testing and commissioning of 12 way Vertical Distribution board with 63A FPMCCB, 25kA as incomer and 12 nos 16 to 63 A TPMCB as outgoing	5.00	nos	37,534.00	187670.0
5.2	Supply installation testing and commissioning of 8 way Vertical Distribution board with 250A FPMCCB, 25kA as incomer and 8 nos 16 to 63 A TPMCB as outgoing	1.00	nos	41,194.00	41194.0
5.3	Supply installation testing and commissioning of 8 way Vertical Distribution board with 150A FPMCCB, 25 kA as incomer and 8 nos 16 to 63 A TPMCB as outgoing	1.00	nos	40,893.00	40893.0
5.4	Supply installation testing and commissioning of 8 way Vertical Distribution board with 125A FPMCCB, 25 kA as incomer and 8 nos 16 to 63 A TPMCB as outgoing	1.00	nos	32,003.00	32003.0
5.5	Supply installation testing and commissioning of 8 way Vertical Distribution board with 100A FPMCCB, 25 kA as incomer and 8 nos 16 to 63 A TPMCB as outgoing	2.00	nos	30,290.00	60580.0
5.6	Supply installation testing and commissioning of 8 way Vertical Distribution board with 63A FPMCCB, 25 kA as incomer and 8 nos 16 to 63 A TPMCB as outgoing	10.00	nos	30,347.00	303470.0
5.7	Supply installation testing and commissioning of 8 way Vertical Distribution board with 40A FPMCCB, 25 kA as incomer and 8 nos 16 to 63 A TPMCB as outgoing	3.00	nos	28,637.00	85911.0
5.8	Supply installation testing and commissioning of 4 way Vertical Distribution board with 250A FPMCCB, 25 kA as incomer and 4 nos 16 to 63 A FPMCB as outgoing	1.00	nos	33,794.00	33794.0
5.9	Supply installation testing and commissioning of 4 way Vertical Distribution board with 125A FPMCCB, 25 kA as incomer and 4 nos 16 to 63 A TPMCB as outgoing	2.00	nos	29,215.00	58430.0
5.10	Supply installation testing and commissioning of 4 way Vertical Distribution board with 100A FPMCCB, 25 kA as incomer and 4 nos 16 to 63 to 25A TPMCB as outgoing	13.00	nos	27,503.00	357539.0
5.11	Supply installation testing and commissioning of 4 way Vertical Distribution board with 63A FPMCCB, 25 kA as incomer and 4 nos 16 to 63 A TPMCB as outgoing	18.00	nos	27,560.00	496080.0
5.12	Supply installation testing and commissioning of 4 way Vertical Distribution board with 40/32A FPMCCB, 25 kA as incomer and 4 nos 16 to 40 A TPMCB as outgoing	23.00	nos	27,624.00	635352.0
5.13	Supply installation testing and commissioning of 12 way per phase isolation type double door distribution board with 63A FPMCB as incomer and per phase 1 nos 63 A DPELCB,100ma and 30 nos 6-63A SPMCB.	10.00	nos	33,234.00	332340.0
5.14	Supply installation testing and commissioning of 12 way per phase isolation type double door distribution board with 63A FPMCB as incomer and per phase 1 nos 40 A DPELCB,100ma and 30 nos 6 to 40 A SPMCB.	18.00	nos	32,089.00	577602.0
5.15	Supply installation testing and commissioning of 12 way per phase isolation type double door distribution board with 40A FPMCB as incomer and per phase 1 nos 32 A DPELCB,100ma and 30 nos 6 to 32 A SPMCB.	58.00	nos	26,503.00	1537174.0
5.16	Supply installation testing and commissioning of 12 way per phase isolation type double door distribution board with 32A FPMCB as incomer and per phase 1 nos 25 A DPELCB,100ma and 30 nos 6 to 25 A SPMCB.	3.00	nos	24,994.00	74982.0
5.17	Supply installation testing and commissioning of 8 way per phase isolation type double door distribution board with 63 A FPMCB as incomer and per phase 1 nos 40 A DPELCB,100ma and 18 nos 6 to 40 A SPMCB.	31.00	nos	24,389.00	756059.0
5.18	Supply installation testing and commissioning of 8 way per phase isolation type double door distribution board with 40 A FPMCB as incomer and per phase 1 nos 32 A DPELCB,100ma and 18 nos 6 to 32 A SPMCB.	63.00	nos	21,038.00	1325394.0
5.19	Supply installation testing and commissioning of 8 way per phase isolation type double door distribution board with 32 A FPMCB as incomer and per phase 1 nos 25 A DPELCB,100ma and 18 nos 6 to 25 A SPMCB.	16.00	nos	19,528.00	312448.0

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
5.20	Supply installation testing and commissioning of 8 way per phase isolation type double door distribution board with 25 A FPMCB as incomer and per phase 1 nos 16 A DPCLCB,100ma and 18 nos 6 to 16 A SPMCB.	46.00	nos	19,528.00	898288.0
5.21	Supply installation testing and commissioning of 6 way per phase isolation type double door distribution board with 40 A FPMCB as incomer and per phase 1 nos 32 A DPCLCB,100ma and 12 nos 6 to 32 A SPMCB.	2.00	nos	19,074.00	38148.0
5.22	Supply installation testing and commissioning of 6 way per phase isolation type double door distribution board with 32 A FPMCB as incomer and per phase 1 nos 25 A DPCLCB,100ma and 12 nos 6 to 25A SPMCB.	13.00	nos	17,565.00	228345.0
5.23	SITC of 20 A 1 phase PVC type industrial plug sockets of IP 65 category with DP MCB complete. (wiring for the same shall be paid in rmt)	85.00	nos	6,327.00	537795.0
5.24	SITC of 32 A 1 phase PVC type industrial plug sockets of IP 65 category with DP MCB complete. (wiring for the same shall be paid in rmt)	10.00	nos	7,783.00	77830.0

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
5.25	SITC of 20 A 3 phase PVC type industrial plug sockets of IP 65 category with FP MCB complete. (wiring for the same shall be paid in rmt)	10.00	nos	9,247.00	92470.0
5.26	SITC of 32 A 3 phase PVC type industrial plug sockets of IP 65 category with FP MCB complete. (wiring for the same shall be paid in rmt)	60.00	nos	9,247.00	554820.0
5.27	SITC of 500A FPMCCB, 35 KA with static releases with M.S. enclosure and terminal boxes complete.	10.00	nos	37,521.00	375210.0
5.28	SITC of 3200A FP ATS, 65 kA with M.S. enclosure complete.	1.00	nos	1,502,146.00	1502146.0
5.29	SITC of 2500A FP ATS, 65 kA with M.S. enclosure complete.	2.00	nos	1,430,991.00	2861982.0
5.30	SITC of 350A FP ATS, 25 kA with M.S. enclosure complete.	1.00	nos	247,064.00	247064.0
5.31	SITC of 250A FP ATS, 25 kA with M.S. enclosure complete.	1.00	nos	228,616.00	228616.0
5.32	SITC of 200A FP ATS, 25 kA with M.S. enclosure complete.	5.00	nos	100,802.00	504010.0
5.33	SITC of 150A FP ATS, 25 kA with M.S. enclosure complete.	6.00	nos	95,531.00	573186.0
5.34	SITC of 125A FP ATS, 25 kA with M.S. enclosure complete.	3.00	nos	95,531.00	286593.0
5.35	SITC of 100A FP ATS, 25 kA with M.S. enclosure complete.	19.00	nos	95,531.00	1815089.0
5.36	SITC of 63A FP ATS, 25 kA with M.S. enclosure complete.	33.00	nos	95,531.00	3152523.0
5.37	SITC of 40 FP ATS, 25 kA with M.S. enclosure complete.	101.00	nos	95,531.00	9648631.0
5.38	SITC of 32A FP ATS, 25 kA with M.S. enclosure complete.	4.00	nos	95,531.00	382124.0
5.39	63A FPMCCB, 25 KA with static releases with M.S. enclosure and terminal boxes complete.	10.00	nos	7,602.00	76020.0
5.40	63A FPELMCB, 100mA, 10 KA with M.S. enclosure complete.	10.00	nos	4,150.00	41500.0
5.41	40A TO 63A FPMCB, 10 KA with enclosure and terminal boxes complete.	20.00	nos	1,946.00	38920.0
5.42	6A TO 32A FPMCB, 10 KA with enclosure and terminal boxes complete.	RO	nos	1,422.00	
5.43	40A TO 63A DPMCB, 10 KA with enclosure and terminal boxes complete.	RO	nos	1,150.00	
5.44	6A TO 32A DPMCB, 10 KA with enclosure and terminal boxes complete.	RO	nos	838.00	
TOTAL OF SECTION 5.0					31,410,225.00
SECTION - 6.0 CABLES					
6.0 A	Supply, Laying of cables on cable trays, structural supports and cable supports provided, include unloading, shifting upto site. The scope includes clamping of cables by ready made G.I. spacers, saddles or clamps fabricated out of M.S. strip 3 mm thick,				
6.1	400 sq mm x 3.5 C A2XFY cable	1,650.00	rmt	1,820.00	3003000.0
6.2	300 sq mm x 3.5 C A2XFY cable	1,000.00	rmt	1,445.00	1445000.0
6.3	240 sq mm x 3.5 C A2XFY cable	250.00	rmt	1,187.00	296750.0
6.4	150 sq mm x 3.5 C A2XFY cable	1,000.00	rmt	753.00	753000.0
6.5	95 sq mm x 3.5 C A2XFY cable	150.00	rmt	510.00	76500.0
6.6	70 sq mm x 3.5 C A2XFY cable	200.00	rmt	409.00	81800.0
6.7	50 sq mm x 3.5 C A2XFY cable	7,500.00	rmt	303.00	2272500.0

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
6.8	25 sq mm x 4 C A2XFY cable	4,750.00	rmt	212.00	1007000.0
6.9	16 sq mm x 4 C A2XFY cable	4,850.00	rmt	156.00	756600.0
6.10	10 sq mm x 4 C A2XFY cable	1,350.00	rmt	144.00	194400.0
6.11	6 sq mm x 4 C 2XWY cable	800.00	rmt	347.00	277600.0
6.12	4 sq mm x 4 C 2XWY cable	450.00	rmt	252.00	113400.0
6.13	6 sq mm x 3 C 2XWY cable	450.00	rmt	274.00	123300.0
6.14	4 sq mm x 3 C 2XWY cable	250.00	rmt	200.00	50000.0
6.15	240 sq mm x 1 C A2XFY cable	3,150.00	rmt	363.00	1143450.0
6.16	1.5 sq mm x 12 C 2XWY cable	250.00	rmt	297.00	74250.0
6.17	240 sq mm x 3 C 33KV HT XLPE cable	800.00	rmt	2,639.00	2111200.0
6.0 B	Supply, laying, testing & commissioning of Mineral insulated Copper Fire survival cable of CWZ type which can withstand 950 deg C for 3 hrs 750 V grade as per relevant IEC/International code including cost of saddles etc.for surface installation /laying in cable tray as required complete as per specifications, drawings and standards.				
6.18	185 sq mm x 1 C CU, MICC LSF cable	RO	rmt	10,794.00	
6.19	120 sq mm x 1 C CU, MICC LSF cable	RO	rmt	7,219.00	
6.20	95 sq mm x 1 C CU, MICC LSF cable	800.00	rmt	5,913.00	4730400.0
6.21	70 sq mm x 1 C CU, MICC LSF cable	1,100.00	rmt	4,626.00	5088600.0
6.22	50 sq mm x 1 C CU, MICC LSF cable	850.00	rmt	3,580.00	3043000.0
6.23	35 sq mm x 1 C CU, MICC LSF cable	RO	rmt	2,779.00	
6.24	25 sq mm x 1 C CU, MICC LSF cable	4,150.00	rmt	2,092.00	8681800.0
6.25	16 sq mm x 1 C CU, MICC LSF cable	6,250.00	rmt	1,537.00	9606250.0
6.26	10 sq mm x 4 C CU, MICC LSF cable	RO	rmt	3,978.00	
6.27	6 sq mm x 4 C CU, MICC LSF cable	575.00	rmt	2,588.00	1488100.0
6.28	25 sq mm x 3 C CU, MICC LSF cable	RO	rmt	6,514.00	
6.29	16 sq mm x 3 C CU, MICC LSF cable	RO	rmt	4,578.00	
6.30	10 sq mm x 3 C CU, MICC LSF cable	RO	rmt	3,259.00	
6.31	6 sq mm x 3 C CU, MICC LSF cable	RO	rmt	2,068.00	
6.32	4 sq mm x 3 C CU, MICC LSF cable	RO	rmt	1,605.00	
6.33	2.5 sq mm x 3 C CU, MICC LSF cable	RO	rmt	1,218.00	
6.34	25 sq mm x 4 C CU, MICC LSF cable	500.00	rmt	6,825.00	3412500.0

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
6.35	16sq mm x 4 C CU. MICC LSF cable	300.00	mt	5,733.00	1719900.0
TOTAL OF SECTION 6.0					51,550,300.00
SECTION - 7.0 CABLE TERMINATION					
7.0 A	Supplying & fixing of double compression type Brass glands & making joint with necessary AL. / CU. crimping socket of long neck type connecting the same to various equipment like section pillar, switch, starter, motor etc. for the following sizes:				
7.1	400 sq mm x 3.5 C A2XFY cable	26.00	nos	1,628.00	42328.0
7.2	300 sq mm x 3.5 C A2XFY cable	16.00	nos	1,358.00	21728.0
7.3	240 sq mm x 3.5 C A2XFY cable	8.00	nos	1,032.00	8256.0
7.4	150 sq mm x 3.5 C A2XFY cable	30.00	nos	732.00	21960.0
7.5	95 sq mm x 3.5 C A2XFY cable	14.00	nos	570.00	7980.0
7.6	70 sq mm x 3.5 C A2XFY cable	26.00	nos	326.00	8476.0
7.7	50 sq mm x 3.5 C A2XFY cable	194.00	nos	272.00	52768.0
7.8	25 sq mm x 4 C A2XFY cable	342.00	nos	162.00	55404.0
7.9	16 sq mm x 4 C A2XFY cable	746.00	nos	162.00	120852.0
7.10	10 sq mm x 4 C A2XFY cable	124.00	nos	136.00	16864.0
7.11	6 sq mm x 4 C 2XWY cable	90.00	nos	196.00	17640.0
7.12	4 sq mm x 4 C 2XWY cable	6.00	nos	162.00	972.0
7.13	6 sq mm x 3 C 2XWY cable	6.00	nos	184.00	1104.0
7.14	4 sq mm x 3 C 2XWY cable	4.00	nos	136.00	544.0
7.15	240 sq mm x 1 C A2XFY cable	200.00	nos	380.00	76000.0
7.16	1.5 sq mm x 12 C 2XWY cable	14.00	nos	272.00	3808.0
7.0 B	Supplying & fixing of terminations/ glands with necessary accessories as per BS EN 60702 Part 2 for the following sizes of MICC cables, complete as per specifications and standards:				
7.17	185 sq mm x 1 C CU. MICC LSF cable	RO	nos	3,692.00	
7.18	120 sq mm x 1 C CU. MICC LSF cable	RO	nos	3,692.00	
7.19	95 sq mm x 1 C CU. MICC LSF cable	24.00	nos	2,051.00	49224.0
7.20	70 sq mm x 1 C CU. MICC LSF cable	8.00	nos	2,051.00	16408.0
7.21	50 sq mm x 1 C CU. MICC LSF cable	16.00	nos	2,051.00	32816.0

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
7.22	35 sq mm x 1 C CU. MICC LSF cable	RO	nos	422.00	
7.23	25 sq mm x 1 C CU. MICC LSF cable	64.00	nos	422.00	27008.0
7.24	16 sq mm x 1 C CU. MICC LSF cable	40.00	nos	422.00	16880.0
7.25	10 sq mm x 4 C CU. MICC LSF cable	RO	nos	2,051.00	
7.26	6 sq mm x 4 C CU. MICC LSF cable	4.00	nos	2,051.00	8204.0
7.27	25 sq mm x 3 C CU. MICC LSF cable	RO	nos	4,800.00	
7.28	16 sq mm x 3 C CU. MICC LSF cable	RO	nos	2,051.00	
7.29	10 sq mm x 3 C CU. MICC LSF cable	RO	nos	2,051.00	
7.30	6 sq mm x 3 C CU. MICC LSF cable	RO	nos	2,051.00	
7.31	4 sq mm x 3 C CU. MICC LSF cable	RO	nos	422.00	
7.32	2.5 sq mm x 3 C CU. MICC LSF cable	RO	nos	422.00	
7.33	25 sq mm x 4 C CU. MICC LSF cable	20.00	nos	4,800.00	96000.0
7.34	16 sq mm x 4 C CU. MICC LSF cable	12.00	nos	3,692.00	
SUB-TOTAL OF SECTION 7.0					703,224.00
SECTION - 8.0 POINT WIRING					
8.0	Point wiring shall be done with supply, installation, testing and commissioning of ZHFR category 2.5 sq mm x 2 + 2.50 sq mm x 1 nos wires from modular switches to light outlet in concealed manner including LHSFT grade ISI PVC conduit of 25 mm diameter 1.6-2.0 mm thickness. Mains of 2.5 sq mm x 3 nos wires from D.B. to switchboard shall be shall be part of point rate. SITC of switches, sockets, regulators, blank plates, front plates, switchboard, PVC conduit and accessories like bends, couplers, MS fan boxes, connectors, ferruling, junction boxes, zarri making and semi finishing etc are part of the point rate. All wire ends shall be lugged properly and ferruled at both D.B. and S.B. end. All boxes shall be 1.6 mm thick M.S. boxes zinc passivated for S.B.. All wire sizes unless specified below shall be as per specifications.				
8.1	One light point controlled by one single way 6 A switch.	2,700.00	nos	1,241.00	3350700.0
8.2	-do- as 8.1 but looped from above.	2,400.00	nos	511.00	1226400.0
8.3	One light point controlled by MCB directly. Cost of MCB shall be a part of the distribution board cost	750.00	nos	740.00	555000.0
8.4	-do- as 8.4 but looped from above.	1,850.00	nos	520.00	962000.0
8.5	One fan outlet point controlled by one 6 A switch and step type electronic regulator.	10.00	nos	1,487.00	14870.0
8.6	One 6 A x 5 pin 230 Volt socket outlet point controlled by one 6 A switch located on switch board.	250.00	nos	321.00	80250.0
8.7	6 A x 230 Volt 5 pin socket outlet point controlled by 6 A switch at convenient location including box plate etc complete to be done with 2.5 sq mm ckt from D.B.	1,850.00	nos	2,327.00	4304950.0
8.8	do as above but loop from above with 2.5sq.mm ckt	4,150.00	nos	763.00	3166450.0
8.9	2 nos 6A x 230 Volt 5 pin socket outlet point with 16 A switch with box and plate complete to be done with 2.5 sq mm wire ckt from D.B. complete.	200.00	nos	2,652.00	530400.0
8.10	do as above but loop from above with 2.5sq.mm ckt	300.00	nos	947.00	284100.0
8.11	1 nos 6/16A x 230 Volt 5 pin socket outlet point with 16 A switch with box and plate complete to be done with 2.5 sq mm wire ckt from D.B. complete.	500.00	nos	2,393.00	1196500.0
8.12	1 nos 6/16A x 230 Volt 5 pin socket outlet point with 16 A switch with box and plate complete to be done with 4 sq mm wire ckt from D.B. complete.	1,000.00	nos	2,962.00	2962000.0

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
8.13	do as above but loop with 2.5 sq.mm ckt.	1,500.00	nos	888.00	1332000.0
8.14	Supply and Laying of 25 mm dia. rigid FRLS category ISI marked PVC conduit of 2.0 mm wall thickness with all accessories complete with GI fish wire.	8,000.00	rmt	30.00	240000.0
8.15	MAINS : - for three phase sockets / D.B. to D.B. / panel to UPS and UPS to UPS DB, dimming control			-	
8.15.1	2 x 1.5 sq mm ZHFR copper flexible wires in and including 25 mm dia rigid PVC conduit of FRLS grade with wall thickness of 2.0 mm	4,000.00	rmt	61.00	244000.0
8.15.2	2 x 2.5 sq mm + 1 x 1.5 sq mm ZHFR copper flexible wires in and including 25 mm dia rigid PVC conduit of FRLS grade with wall thickness of 2.0 mm	850.00	rmt	94.00	79900.0
8.15.3	2 x 4 sq mm + 1 x 2.5 sq mm ZHFR copper flexible wires in and including 25 mm dia rigid PVC conduit of FRLS grade with wall thickness of 2.0 mm	4,750.00	rmt	127.00	603250.0
8.15.4	4 x 4 sq mm + 1 x 2.5 sq mm ZHFR copper flexible wires in and including 32 mm dia rigid PVC conduit of FRLS grade with wall thickness of 2.0 mm	1,350.00	rmt	212.00	286200.0
8.15.5	4 x 6 sq mm + 1 x 4 sq mm ZHFR copper flexible wires in and including 32 mm dia rigid PVC conduit of FRLS grade with wall thickness of 2.0 mm	750.00	rmt	295.00	221250.0
8.15.6	4 x 10 sq mm + 1 x 6 sq mm ZHFR copper flexible wires in and including 32 mm dia rigid PVC conduit of FRLS grade with wall thickness of 2.0 mm	3,000.00	rmt	479.00	1437000.0
8.15.7	4 x 25 sq mm + 1 x 16 sq mm FR copper flexible cable in and including 32 mm dia rigid PVC conduit of FRLS grade with wall thickness of 2.0 mm	750.00	rmt	1,129.00	846750.0
8.15.8	4 x 95 sq mm + 1 x 70 sq mm FR copper flexible cable in and including 50 mm dia rigid PVC conduit of FRLS grade with wall thickness of 2.0 mm	150.00	rmt	4,163.00	624450.0
8.15.9	5 x 240 sq mm + 1 x 120 sq mm FR copper flexible cable in and including 50 mm dia rigid PVC conduit of FRLS grade with wall thickness of 2.0 mm	50.00	rmt	11,632.00	581600.0
	TOTAL OF SECTION 8.0				25,130,020.00

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
SECTION - 9.00 LIGHT FIXTURES & FANS :					
9.0	Supply, Installation, testing & commissioning of standard light fittings and lighting accessories including lamp.The scope shall include, providing of all hardware such as nuts,anchor fasteners, bolts, screws, cleats, clamps, PVC insulated wires / cables				
9.1	Concealed type 18 W LED DL light fixture PHILIPS CAT NO- LEDO or equivalent model from approved makes	1,350.00	nos	5,016.00	6771600.0
9.2	Concealed type 4 x 14 W TL5 Square light fixture PHILIPS CAT NO - TBS 869/414 D8 HF or equivalent model from approved makes	1,250.00	nos	4,891.00	6113750.0
9.3	Concealed type 4 x 14 W TL5 Square light fixture PHILIPS CAT NO - TBS 570/414 D8 HF or equivalent model from approved makes	500.00	nos	4,476.00	2238000.0
9.4	Surface type 2 x 28 W TL light fixture PHILIPS CAT NO - TCW 097/228 HF or equivalent model from approved makes	750.00	nos	3,687.00	2765250.0
9.5	Surface type 2 x 36 W TL light fixture PHILIPS CAT NO - TCS 350/236 or equivalent model from approved makes	50.00	nos	2,345.00	117250.0
9.6	Surface type 2 x 18 W light fixture PHILIPS CAT NO - FCS 518/218 or equivalent model from approved makes	100.00	nos	1,266.00	126600.0
9.7	Surface type 1 x 18 W light fixture PHILIPS CAT NO - FCS 100/118 or equivalent model from approved makes	200.00	nos	1,336.00	267200.0
9.8	Concealed type 1 x 18 W light fixture PHILIPS CAT NO - FBH 145/118 or equivalent model from approved makes	200.00	nos	1,574.00	314800.0
9.9	Concealed type 2 x 36 W TL light fixture PHILIPS CAT NO - TBS 90/236 HF or equivalent model from approved makes	300.00	nos	2,289.00	686700.0
9.10	Concealed type 2 x 42 W TL light fixture PHILIPS CAT NO - FBH 225/242 HF P or equivalent model from approved makes	50.00	nos	4,401.00	220050.0
9.11	Surface type 2 x 28 W TL light fixture PHILIPS CAT NO - TMS 122/228 or equivalent model from approved makes	200.00	nos	1,379.00	275800.0
9.12	Surface type 2 x 18 W light fixture PHILIPS CAT NO - DCP 715/218 or equivalent model from approved makes	400.00	nos	4,382.00	1752800.0
9.13	Surface type 1 x 9 W light fixture PHILIPS CAT NO - WKP 14109 or equivalent model from approved makes	500.00	nos	689.00	344500.0
9.14	Concealed type 2 x 18 W light fixture WIPRO CAT NO - DBP 701 or equivalent model from approved makes	300.00	nos	9,342.00	2802600.0
9.15	Concealed type 3 x 10 W light fixture PHILIPS CAT NO - BB360 3xLXML-10-/CW WH or equivalent model from approved makes	50.00	nos	6,245.00	312250.0
9.16	Concealed type 1 x 28 W light fixture PHILIPS CAT NO - TBX 312 1xTL528W MI or equivalent model from approved makes	1,250.00	nos	5,775.00	7218750.0
9.17	Concealed type Bottom opening clean room light fixture PHILIPS CAT NO - TBS 670 EBW or equivalent model from approved makes	150.00	nos	6,408.00	961200.0
9.18	Concealed type 1 x 36 W light fixture PHILIPS CAT NO - TMS021 1xTLD36 W I or equivalent model from approved makes	50.00	nos	751.00	37550.0
9.19	providing of 2x18W dimmable ballast in place of regular ballast	50.00	nos	3,762.00	188100.0
9.20	providing of 2x36W dimmable ballast in place of regular ballast	50.00	nos	3,762.00	188100.0
9.21	providing of 2x42W dimmable ballast in place of regular ballast	50.00	nos	3,887.00	194350.0
9.22	1200 mm dia ceiling fan - crompton high speed with double ball bearing and white colour. (supply included)	10.00	nos	1,471.00	14710.0
9.23	300 mm dia exhaust fan of PVC body with louvers - Usha make - lexus model or approved equivalent (supply included)	10.00	nos	1,188.00	11880.0
9.24	Installation of All type of Concealed mounted CFL ceiling light fixtures.	RO	nos	71.00	
9.25	Installation of All type of Concealed mounted Helogen ceiling light fixtures.	RO	nos	71.00	
9.26	Installation of All type of Concealed mounted T5 ceiling light fixtures.	RO	nos	71.00	
9.27	Installation of All type of Concealed mounted LED ceiling light fixtures.	RO	nos	71.00	
9.28	Installation of All type of Concealed mounted MH light fixtures.	RO	nos	143.00	

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
9.29	Installation of All type of Surface mounted CFL wall light fixtures.	RO	nos	71.00	
9.30	Installation of All type of Surface mounted LED wall light fixtures.	RO	nos	71.00	
9.31	Installation of All type of Surface mounted T5 wall light fixtures.	RO	nos	71.00	
9.32	Installation of All type of Surface mounted MH light fixtures.	RO	nos	143.00	
TOTAL OF SECTION 9.0					33,923,790.00

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
SECTION -10.0 EARTHING					
10.1	Providing earthing stations for equipment earthing by using chemical as indicated in items to follow.				
A)	with the use of 35 mm Copper bonded GI pipe, 3 mtr long and filling of 2 bags of compound complete with chamber, lid cover and tap off point as per specification, drawings and standards.	104.00	no	14,364.00	1493856.0
10.2	Earth wire/ strips :				
	Supply and laying cu. earthing strips for interconnecting the earthing stations, panels, DB's etc. in built-up trenches, on walls/ ceiling, buried in ground generally as specified and shown on drawings complete with :				
A	50 x 12 mm Cu. strips.	200.00	rmt	3,848.00	769600.0
B	50 x 6 mm Cu. strips.	1,400.00	rmt	1,905.00	2667000.0
C	25 x 6 mm Cu. strips.	2,500.00	rmt	952.00	2380000.0
D	19 x 3 mm CU. strips.	1,000.00	rmt	381.00	381000.0
E	SITC of 25 sq mm single core flexible copper wire of green colour with 25 mm dia PVC conduit	1,450.00	rmt	226.00	327700.0
F	SITC of 16 sq mm single core flexible copper wire of green colour with 25 mm dia PVC conduit	1,450.00	rmt	157.00	227650.0
G	SITC of 10 sq mm single core flexible copper wire of green colour with 25 mm dia PVC conduit	500.00	rmt	114.00	57000.0
H	SITC of 6 sq mm single core flexible copper wire of green colour with 25 mm dia PVC conduit	500.00	rmt	78.00	39000.0
I	SITC of 4 sq mm single core flexible copper wire of green colour with 25 mm dia PVC conduit	250.00	rmt	63.00	15750.0
J	SITC of 8 guage bare copper wire	2,000.00	rmt	70.00	140000.0
K	SITC of Equipotential bar of 300 x 25 x 6 mm Cu. strip	25.00	no	424.00	10600.0
L	SITC of Equipotential bar of 300 x 25 x 3 mm Gi. strip	100.00	no	205.00	20500.0
TOTAL OF SECTION 10.0					8,529,656.00
SECTION -11.0 TELEPHONE / COMPUTER NETWORKING					
11.1	Supply and Laying of 25 mm dia. rigid LHSFT category ISI marked PVC conduit of 2.0 mm wall thickness with all accessories complete with GI fish wire.	4,500.00	rmt	30.00	135000.0
11.2	Supply, Installation testing and commissioning of 1000 pair telephone tag block.	2.00	nos	21,114.00	42228.0
11.3	Supply, Installation testing and commissioning of 400 pair telephone tag block.	1.00	nos	10,986.00	10986.0
11.4	Supply, Installation testing and commissioning of 300 pair telephone tag block.	1.00	nos	9,638.00	9638.0
11.5	Supply, Installation testing and commissioning of 200 pair telephone tag block.	2.00	nos	6,647.00	13294.0
11.6	Supply, Installation testing and commissioning of 150 pair telephone tag block.	1.00	nos	5,789.00	5789.0
11.7	Supply, Installation testing and commissioning of 100 pair telephone tag block.	4.00	nos	4,399.00	17596.0
11.8	Supply, Installation testing and commissioning of 50 pair telephone tag block.	7.00	nos	2,555.00	17885.0
11.9	Supply, Installation testing and commissioning of 30 pair telephone tag block.	7.00	nos	1,696.00	11872.0
11.10	Supply, Installation testing and commissioning of 20 pair telephone tag block.	3.00	nos	1,124.00	3372.0

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
11.11	Supply, Installation testing and commissioning of 10 pair telephone tag block.	6.00	nos	565.00	3390.0
11.12	Supply, Laying of 200 pair 0.5 mm dia jelly filled armoured telephone cable	450.00	rmt	936.00	421200.0
11.13	Supply, Laying of 150 pair 0.5 mm dia jelly filled armoured telephone cable	25.00	rmt	725.00	18125.0
11.14	Supply, Laying of 100 pair 0.5 mm dia jelly filled armoured telephone cable	250.00	rmt	467.00	116750.0
11.15	Supply, Laying of 50 pair 0.5 mm dia jelly filled armoured telephone cable	125.00	rmt	257.00	32125.0
11.16	Supply, Laying of 30 pair 0.5 mm dia jelly filled armoured telephone cable	200.00	rmt	167.00	33400.0
11.17	Supply, Laying of 20 pair 0.5 mm dia jelly filled armoured telephone cable	40.00	rmt	105.00	4200.0
11.18	Supply, Laying of 10 pair 0.5 mm dia jelly filled armoured telephone cable	150.00	rmt	62.00	9300.0
11.19	Supply, Laying of Cat 6 computer wire in prelaidd conduit/ raceway for data and voice.	65,000.00	rmt	26.00	1690000.0
11.20	Supply, Laying of RG11 coaxial T.V. wire in prelaidd conduit	250.00	rmt	35.00	8750.0
11.21	Supply, Laying of RG6 coaxial T.V. wire in prelaidd conduit	5,750.00	rmt	19.00	109250.0
11.22	Supply, Installation testing and commissioning of RJ 11 telephone jack type socket with box and plate complete.	950.00	no	202.00	191900.0
11.23	Supply, Installation testing and commissioning of RJ 45 computer jack (Avaya make) type socket with box and plate complete.	775.00	no	459.00	355725.0
11.24	Supply, Installation testing and commissioning of Television coaxial type socket with box and plate complete.	150.00	no	204.00	30600.0
11.25	Supply, Installation testing and commissioning of Television coaxial type 4 way splitters with boxes to mount them.	50.00	no	621.00	31050.0
11.26	Supply, Installation testing and commissioning of GI / Al floor raceway of 100 x 38 mm of 1.6 mm thickness including cutting of civil works if required. - MK UMDX 100/1/6 or approved equivalent	4,500.00	rmt	561.00	2524500.0
11.27	Supply, Installation testing and commissioning of GI / Al floor raceway vertical access junction box of 300 x 200 x 50 mm equivalent to MK make - Cat no EVB 250/2	300.00	no	2,234.00	670200.0
11.28	Supply, Installation testing and commissioning of GI / Al floor raceway outlet junction box of 250 x 250 x 60 mm approved equivalent to MK make - Cat no ESB 250/3/1	350.00	no	4,538.00	1588300.0
11.29	SITC of 100 x 50 mm PVC raceway with partition to be fixed on wall with all necessary accessories like bends / couplers / end caps etc complete - makes MK / LK / Legrand	500.00	rmt	635.00	317500.0
TOTAL FOR SECTION 11.0					8,423,925.00

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
SECTION -12.0 POWER BACK UP SYSTEMS					
12.1	Supply, Installation, testing and commissioning of UPS system of - 5 x 200 KVA for > 0.99 pf or 5 X 250 kVA for >0.9 pf. n+ 1 type with individual 30 mins battery back up and as per specification of tender . The work shall include tapping power from nearby MCCB and providing single output with necessary paralleling kits and busbars. All wiring from battery to UPS shall be part of vendors scope and all batteries shall be SMF type. Note: Depending upon the load/ requirement, UPS in denomination of 200/250 kVA may be taken and amount to be paid will be on prorata basis.	1.00	set	20,105,354.00	20105354.0
12.2	Supply, Installation, testing and commissioning of 415V, 1 x 2000KVA D.G. Set as per specification of tender. The D.G. set shall be with canopy as per CPCB guidelines to limit sound levels to 75 DB at 1 mtr. Fuel piping from day tank to D.G. shall be included in the rate. Day tank shall be within the canopy. day tank with level sensors of automatic fuel pumps start / stop & BMS connectivity.	3.00	nos.	25,081,152.00	75243456.0
12.3	Supply, Installation, testing and commissioning of Synchronising totally type tested Assembly (TTTA) type panel for 415 V, 3 X 2000 kVA DG sets, complete as per specification, drawings/ SLD and standards. The Panel shall comprising of 3 incoming breakers of 3200A FPACB, EDO type 65KA & 4 nos of 3200A FPACB, EDO 65KA as outgoing breakers with 2 nos of 4000A FP ACB, EDO 65 KA as Bus coupler for D.G. sets as always on feeder along with necessary sync. relays, protection relays, meters etc complete. control cabling from DG sync. panel to DG set & LT panels / ATS panels is deemed to be included in this item. The Synchronising shall be done through Microprocessor Based Relay System.Suitable Relays , Timers ,Selector ,Switches , Instruments , Control Circuiting etc. required for Auto and Manual Synchronising shall be included. The panel shall have provisions for communicating with BMS for automatic operation. Manual Synchronising facility shall be provided to operate the DG Sets in case failure of Auto Synchronising.	1.00	set	10,941,915.00	10941915.0
12.4	Supply, Installation, testing and commissioning of DG synchronising totally type tested Assembly (TTTA) type panel for 415V, 3 x 1010KVA D.G. Set as per as per specification, drawings/ SLD and standards. The Panel shall comprising panel3 incoming breakers of 1600A FPACB, EDO type 65kA & 3 nos of 2500A FPACB, EDO 65kA, 1 no. 1000A FP ACB, EDO 65kAa as outgoing breakers with 2 nos of 4000A FP ACB, EDO 50 kA as Bus coupler for D.G. sets as always on feeder along with necessary sync. relays, protection relays, meters etc complete. control cabling from DG sync. panel to DG set & LT panels / ATS panels is deemed to be included in this item. The Synchronising shall be done through Microprocessor Based Relay System.Suitable Relays , Timers ,Selector ,Switches , Instruments , Control Circuiting etc. required for Auto and Manual Synchronising shall be included. The panel shall have provisions for communicating with BMS for automatic operation. Manual Synchronising facility shall be provided to operate the DG Sets in case failure of Auto Synchronising.	1.00	set	8,835,669.00	8835669.0
12.5	Supply, installation, testing and commissioning of deisel flue gases chimney of 35 mtrs height. The scope includes complete chimney works including foundations and also exhaust pipe connection from 3 generators fill chimney. Exhaust piping 15 mtrs per set from D.G. to chimney shall be included in the works with necessary stand and support system. Earthing for chimney etc. shall included. The rate shall include Design and preparation of the drawings for exhaust chimney; provision of sampling ports for all types of stacks, submission and obtaining approval and necessary certificate from pollution control board and other statutory authorities. The chimneys shall be self supporting type and shall include necessary holding down bolt arrangements, nsulations, supports and aluminium cladding. The civil works required for the chimney is also included in the scope.	1.00	set	7,841,197.00	7841197.0

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
12.6	Supply, installation, testing and commissioning of solar power pack with net output of 3 KW, 3 PH. The solar PV arrays shall be of 100W & multicrystalline type. Battery backup of 8 hours with tubular batteries shall be given. Inverter shall be IGBT / PWM based with minimum efficiency of 85%. The inverter shall be communicable with BMS & shall display health of batteries along with other parameters complete as per specification.	1.00	set	1,884,382.00	1884382.0
TOTAL OF SECTION 12.0					124,851,973.00
SECTION - 13.00 EXTERNAL ELECTRIFICATION					
13.1	Supply and Laying of 3 nos 1.5 sq mm Cu flexible HFLS wires in flexible conduit from junction box on poles to fixture	750.00	rmt	70.00	52500.0
13.2	Supply, installation, testing and commissioning of 7 mtr above ground, seamless conical tapering GI poles with single seamless conical tapering GI 1.5 mtr long bracket of approved shape & suitable for mounting of 150W fixture of approved make & as per detailed drawings. Bracket rear projection, inclination & mounting height shall be as per detailed drawings. The rates shall be inclusive of necessary foundation (min. 450 x 450 x 750 mm, M:15) with anchor bolts, etc. complete. The pole shall have concealed type (flush door with proper strengthening to the cutout of the door opening) junction box with loop in loop out connector (bakelite connector of 15A) and MCB for fixture.	75.00	nos	5,089.00	381675.0
13.3	Supply, Installation, testing & commissioning of standard light fittings and lighting accessories including lamp. The scope shall include, providing of all hardware such as nuts, anchor fasteners, bolts, screws, cleats, clamps, PVC HFLS insulated wires / cables from Junction box to lighting fixtures, ball and socket arrangement with J.B., suspension conduit pipe for drop for fluorescent fitting. The cost of fabrication and installation of MS supports will be paid extra as per rates quoted elsewhere. All fixtures shall be with APFC type electronic ballasts of less than 10% THD content of intellux / Atco / Vossloh make. All fixtures shall be with high lumen output lamps of Osram / Philips / GE. LED shall be of Nichia / Lumileds / Cree only. All fixtures shall be of equivalent makes as mentioned for one depicted make.				
13.3.1	SITC of 45W LED out door type fixture Philips Cat no. - GPLS 30 LED 40W/45W LEH2 240/50HZ NP or equivalent model from approved makes.	75.00	nos	41,631.00	3122325.0
13.3.2	SITC of LED outdoor type Fasade light fixture Philips BCP655 / 3xlux ion HP LED or equivalent model from approved makes.	50.00	nos	18,810.00	940500.0
13.3.3	SITC of Water body light philips cat no. EW Graze power Wee narrow 2700K or equivalent model from approved makes.	25.00	nos	39,308.00	982700.0
13.3.4	SITC of Outdoor Ground burial outdoor type philips cat no. BBS 400 2/5 A or equivalent model from approved makes.	30.00	nos	7,133.00	213990.0
13.3.5	SITC of outdoor type water body LED type light philips cat no. C-splash.2 or equivalent model from approved makes.	20.00	nos	93,266.00	1865320.0
13.3.6	-do as above but 150 W MH fixture - philips cat no. RVP501 M 2 x MAX x 400W-E40 or equivalent model from approved makes.	20.00	nos	22,547.00	450940.0
13.3.7	SITC of Brick lights 18 W CFL fixture philips cat no. DBP701 2xPLC-18W or equivalent model from approved makes.	40.00	nos	9,342.00	373680.0
TOTAL OF SECTION 13.0					8,383,630.00

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
SECTION - 14.0 LIGHTNING PROTECTION SYSTEM					
14.1	SITC of Lightening protection system with early Streamer Emmission (ESE), technology, having a coverage range up to 56 mtr.dia (Level 1) with mounting structure as per specifications.	4.00	nos	105,593.00	422372.0
14.2	SITC of Lightening protection system with early Streamer Emmission (ESE), technology, having a coverage range up to 30 mtr.dia (Level 1) with mounting structure as per specifications.	2.00	nos	89,538.00	179076.0
14.3	SITC of Lightening Discharging Counter to verify the lighting discharge occurrence.	6.00	nos	22,848.00	137088.0
Note: The rate shall include all allied and implied item required for complete commissioning of the system.					
TOTAL OF SECTION 14.0					738,536.00
SECTION - 15.00 - NURSE CALLING SYSTEMS - Addressable type					
15.1	SITC of LCD type nurse calling units with normal call, code blue call & reset attended buttons	330.00	nos	2,594.00	856020.0
15.2	SITC of LCD type nurse call indicators - single indication outside room doors	120.00	nos	2,860.00	343200.0
15.3	SITC of LCD / LED type nurse call indicator panel with 8 indicators to be integrated with with PC & looped with other panels.	5.00	nos	99,750.00	498750.0
15.4	SITC of LCD / LED type nurse call indicator panel with 12 indicators to be integrated with with PC & looped with other panels.	3.00	nos	111,720.00	335160.0
15.5	SITC of LCD / LED type nurse call indicator panel with 16 indicators to be integrated with with PC & looped with other panels.	7.00	nos	118,370.00	828590.0
15.6	SITC of LCD / LED type nurse call indicator panel with 24 indicators to be integrated with with PC & looped with other panels.	6.00	nos	123,690.00	742140.0
15.7	SITC of LCD / LED type nurse call indicator panel with code blue indicators to be integrated with with PC & looped with other panels & programmable type to set nos. of indications as required by users.	15.00	nos	73,150.00	1097250.0
15.8	Providing and drawing CAT 6 + 1.5 sq.mm 3C shielded cu. wire including 25 mm dia rigid PVC conduit of ISI and FIA grade with 1.5 mm wall thickness with all necessary accessories like bends etc complete for nurse calling	4,000.00	mtr	153.00	612000.0
Total for Sub section - 15.0					5,313,110.00

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
SECTION - 16.00 Dimming System					
16.1	Supply, Installation Testing and Installation of Dimmer Panel - Havells Aura pro - 425 or approved equipvalent.	10.00	nos	47,880.00	478800.0
16.2	Supply, Installation Testing and Installation of Dimmer Panel - Havells Aura pro - 405 or approved equipvalent.	5.00	nos	44,688.00	223440.0
16.3	Supply, Installation Testing and Installation of Key pad as per Havells Aura pro - 405/425 or approved equipvalent.	15.00	nos	7,980.00	119700.0
16.4	Supply, Installation Testing and Installation of Astronomical Clock	10.00	nos	25,536.00	255360.0
Total for Sub section - 16.0					1,077,300.00
SECTION - 17.00 MISCELLANEOUS WORKS					
17.1	Carrying out necessary liosioning work with all concern government / semi government departments for getting power, approval of installation from electrical inspectors office, etc complete including making - taking prints - submitting as built and other necessary drawings. Teh Approvals shall also include DG Sets approvals from all concerned departments	1.00	set	546,250.00	546250.0
17.2	Carrying out temporary wiring for site works including supply and fixing of 75 tube lights / 10 halogen lights / 3 nos 3 phase + 3 nos 1phase socket board on each floor per block (i.e. 15 sets total)and change of lamps for 1 time. The cost shall include all necessary cabling/wiring for the same. Necessary MCD/ELCB shall be provided as incomer to the boards	1.00	set	814,286.00	814286.0
17.3	Providing and laying of 100 mm dia 1.6 KG pressure PVC conduit with necessary accessories complete	100.00	rmt	186.00	18600.0
17.4	Providing and laying of 150 mm dia RCC hume pipe of NP2 class with collars etc complete	50.00	rmt	283.00	14150.0
17.5	Providing and laying of 300 mm dia RCC hume pipe of NP2 class with collars etc complete	50.00	rmt	513.00	25650.0
17.6	Supplying,laying & testing of the fire sealant materials complete as per below descriptions/ technical specifications:(Reference Quotation page no 36)				
a)	Closing a larger shaft using CS-195+ INTUMSCENT COMPOSITE SHEET of 3Mof approved equivalent. Sheet is made up of 28 guage galvanised sheet on one side and the other side reinforced with hexagonal shaped steel wire mesh and covered with aluminium foil.The nominal 7.62mm thick composite sheet provides minimum fire ratting of 2 hour. The maximum temperature that can be withstand is 1200 deg C (Hydro Carbon Fire) as per ASTM Standards E814 & E119. Composite sheet must be capable of passing ASTM E814,ANSI/1479 Standard methods of fire tests for through penetration fire stops upto the desired fire resistant ratting. It should also meets the summary of the fire tests results per ESTM814.Electrical circuits protection systems for cable trays besides meeting surface burning characteristics ASTM E84.(ANSI/UL723)	Sqft	100.00	4,572.00	457200.0
b)	Sealing of construction gaps using MPP-1 +INTUMESCENT MOLDABLE PUTTY PADS of 3mm or approved equivalent for cables including fiber optic inner duct and cable, insulated pipe electrical conduits, metal pipes,penetrations against air drafts,smoke,noxius gas and flame propagation.The product shall be one part intumescent elastomersprovides a minimum fire rating of 2 hours. The maximum temperature that can be withstand is 1200 deg C (Hydro Carbon Fire) as per ASTM Standards E814 & E119.Under normal enviournmental conditions,the materials shall be non-corrosive to metal and compatible with synthetic cable jackets.When exposed to flame & heat it shall be capable of expanding and comply with paragraph 300-21 of NCE (NEPA17) and requirments of UL1479,E814.	Cuinch	1000.00	157.00	
c)	Sealing penetration in the wall and floor assemblies using FIRE BARRIER ENDOTHERMIC MOTAR (with 3" depth) of 3M or approved equivalent.Fire barrier motar shall be a lightweight cementious product. The product should have fire rating and capable a minimum fire rating of 2HRS.The maximum temperature that can be withstand is 1200 deg C (Hydro Carbon Fire) as per ASTM Standards E814 & E119.The material should be free of Asbestos or MMMF (Made made mineral fibre)The product shall have characteristic of self levelling and shall not sag. It should accomodate re-entry ability without the use of power tools.The products must betested as per ASTM E&14 and OANLWC S115 for apt 2 hours fire resistance F& T (F1,F,FH and FTH).	Sqft	RO	2,808.00	

Sr.No.	Description	Qty	Unit	Total Rate (Rs.)	Total Amount (Rs.)
d)	FireDam Spray is a flexible,spraytable,water based coating that dries in ambient conditions to form a flexible seal. The coating shall be listed by independent test agencies such as UL & Omega Point Laboratories with a minimum fire rating of 2 hrs.The maximum temperature that can be withstand is 1200 deg C (Hydro Carbon Fire) as per ASTM Standards E814 & E119.The coating has been cycled to meet the wind away and thermal catagory of ASTM E 1399,500 cycles at a minimum cycles/minutes.The coating was fire tested and evaluated under the pass/fail criteria conditions of ASTM E 119 and UL 2079 at maximum extended joint width.The coating shall comply with the requirments of BOCA,ICBO,SBCCI,and NEPA Codes #101.	Sqft	Ro	999.00	
Total for Sub section - 17.0					1,876,136.00
Total for Electrical works					585,039,699.00