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**PRICE BID
(PART - 2)**

Tender document for Electrical works for Proposed Establishment of Hi-Tech Class/Conference room in Hostel Block, IMAGE Campus, MRC Nagar Chennai

ISSUED TO

M/s. _____

This document contains 16 pages



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S.No	Description of work	Unit	QTY	Supply		Installation		Total Amount (in Rs)
				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
	ABBRIATION : S E T C : Supply, erection, testing & Commissioning.							
	I.T.C : Installation, Testing & Commissioning.							
	E.T.C : Erection, Testing & Commissioning							
I	<u>PART-A DISTRIBUTION BOARDS</u>							
	<u>NOTE:</u>							
1	SET C of double door Industrial pattern 12 WAY SPN MCB DB for Lighting load (with C curve MCB's) comprising of :- a) "1 - 32A 2 Pole MCB as incomer. 10 - 6/10A SP MCB as outgoing to loads."	Set	2					
2	SET C of double door Industrial pattern 8 WAY SPN MCB DB for Emergency Lighting load (with C curve MCB's) comprising of :- a) "1 - 32A 2 Pole MCB as incomer. 6 - 6/10A SP MCB as outgoing to loads."	Set	1					
3	SET C of compartmental type phase segregated double door industrial pattern MCB DB for 3F Raw Power load (with C curve MCB's) comprising of :- a) "1 - 63A 4 Pole MCB as incomer. 3 - 63A DP 100mA RCCB as phase isolation. 24 - 16A/20A SP MCB as outgoing to loads."	Set	1					
4	SET C of VTPN double door industrial pattern 8way MCCB/MCB DB for MDB (with C curve MCCB/MCB's) comprising of :- a) "1 - 160A 4P MCCB 25KA as incomer. 2 - 63A TP MCB as outgoing to loads. 4 - 40A TP MCB as outgoing to loads. 6 - 32A SP MCB as outgoing to loads."	Set	1					
5	Supply & Installation of 63/ 40 Amps -300 ma RCCB with Weather proof enclosure (IP 67) for 4TR Cassette AC	Set	4					



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				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
6	Supply & Installation of 32Amps 2pole MCB with Metal enclosure for Inverter Input	Set	1					
	PART-A SUB-TOTAL							
	NOTE: 1.Qtys are tentative subjected to change based on Bank's requirement during execution							
II	<u>PART-B POINT WIRING (WITH MODULAR SWITCHES / SOCKETS) Legrand Myrius</u>							
	Supply and wiring for the following Light, Exhaust Fan, 6A independent socket outlets points, using 2.5 Sqmm multi-strand copper conductor 660 Volts Grade FRLS PVC insulated wires drawn through suitable dia concealed PVC FRLS conduit of thickness not less than 2mm conform to I.S. with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 1.5 Sqmm FRLS PVC insulated Green colour copper conductor wire loop earth, Modular switch/ receptacles mounted in suitable size Phosphate MS switch box front plate etc. required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required specifically brought in here. The specified conduit shall be laid in roof slab requirement of site condition. The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. The surface conduits Shall be PVC FRLS of 2mm thick of required size. The point rate should include cost of circuit/sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm conductor FRLS PVC insulated wire drawn through surface PVC FRLS conduit with all conduit accessories from distribution board to switch box and, switch box to switch box & switch box to primary points each circuit shall be limited to 800W or 10 points whichever is less. The circuit wiring should be independent of point wiring (The point wiring length may be considered 6 to 10 Mtrs. Length appx.)							
a)	Single light point controlled by one 6A Modular switch all complete.	Pts	2					
b)	Two light point controlled by one 6A Modular switch all complete.	Pts	2					
c)	Three light point controlled by one 6A Modular switch all complete.	Pts	2					



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				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
d)	Four light point controlled by one 6A Modular switch all complete. Supply and wiring for the following group control light points with materials as etc.as in item above 2.5 Sqmm multi-strand copper conductor 660V grade FRLS wires drawn through suitable dia PVC FRLS conduit conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm FRLS Green colour copper conductor loop earth, as required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition. The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor FRLS wire drawn through PVC conduit of 2mm thickness with all conduit accessories from DB Each circuit shall belimited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 4 to 6 Mtrs. Rates shall be quoted as a group taking both the primary (21 mtrs) and the number of Secondary points (4Pts) in each of the group . (The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped separately.	Pts	2					
2		Grps (Groups)	2.00					



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				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
3	Supply and wiring for the following group control light points with materials as etc.as in item above 2.5 Sqmm multi-strand copper conductor 660V grade FRLS wires drawn through suitable dia PVC FRLS conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm FRLS Green colour copper conductor loop earth, as required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition. The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie.) Run of 3R 2.5 Sqmm copper conductor FRLS wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall be limited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 5 to 7 Mtrs. Rates shall be quoted as a group taking both the primary (21 mtrs) and the number of Secondary points (5 Pts) in each of the group. (The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped separately.	Grps	2.00					

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				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
4	<p>Supply and wiring for the following group control light points with materials as etc.as in item above 2.5 Sqmm multi-strand copper conductor 660V grade FRLS wires drawn through suitable dia PVC FRLS conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm FRLS Green colour copper conductor loop earth, as required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition. The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor ZHFR wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall be limited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 5 to 8 Mtrs. Rates shall be quoted as a group taking both the primary (19 mtrs) and the number of Secondary points (6 Pts) in each of the group .(The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped separately.</p>	Grps	2.00					



S.No	Description of work	Unit	QTY	Supply		Installation		Total Amount (in Rs)
				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
5	<p>Supply and wiring for the following group control light points with materials as etc.as in item above 2.5 Sqmm multi-strand copper conductor 660V grade FRLS wires drawn through suitable dia PVC conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm FRLS Green colour copper conductor loop earth, as required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition. The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor FRLS wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall be limited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 5 to 8 Mtrs. Rates shall be quoted as a group taking both the primary (18 mtrs) and the number of Secondary points (9 Pts) in each of the group. (The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped separately.</p>	Grps	3.00					



S.No	Description of work	Unit	QTY	Supply		Installation		Total Amount (in Rs)
				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
7	<p>EMERGENCY LIGHT POINT</p> <p>Supply and wiring for the following group control light points with materials as etc.as in item above 2.5 Sqmm multi-strand copper conductor 660V grade FRLS wires drawn through suitable dia PVC FRLS conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm FRLS Green colour copper conductor loop earth, as required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition. The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R. 2.5 Sqmm copper conductor FRLS wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall be limited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 10 Mtrs. Rates shall be quoted as a group taking both the primary (15 mtrs) and the number of Secondary points (5 Pts) in each of the group .(The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped separately.</p>	Grps	3.00					
8	<p>Supply and wiring for 3R of 2.5 Sqmm multi-strand FRLS copper conductor 660V grade wire (one wire shall be of green colour) in ISI marked suitable size PVC FRLS conduit with all standard accessories all complete as circuit wiring from PDB (For CCTV, TV, Other Power sockets etc.</p>	Mts	300					
9	<p>Supply and fixing 6A 1 Way modular switch and 6A 3pin shuttered modular socket outlet with plug. In the light control switch box itself with necessary wiring. (The size of the light control switch box shall be suitable to accommodate the above with necessary front plate) etc. all complete.</p>	Nos	4					



S.No	Description of work	Unit	QTY	Supply		Installation		Total Amount (in Rs)
				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
10	Supply and Fixing of 2 nos of 6A 3 Pin Universal sockets controlled by 2nos 6 A switch in Galvanised metal box fixed on modular Face plate in recess / surface and with necessary accessories as per site condition.	Nos	10					
11	Supply and Fixing of 3 nos of 6A 3 Pin Universal sockets controlled by 1no 16 A switch in Galvanised metal box fixed on modular Face plate in recess / surface and with necessary accessories as per site condition. Dummy plate to be provide appropriate place for spare.	Nos	18					
12	Supply & fixing of 6A Independent socket outlet point including providing 6A 3 pin Modular shuttered socket outlet controlled by 6A Modular switch.	Nos	20					
13	Supply & fixing 6/16A 5 pin shuttered socket outlet with front plate controlled by 16A single way control switch in PVC switch box, accessories as required per site conditions.at locations required. As per site conditions.	Nos	10					
14	Supply & fixing of 8 module Furniture popup box with the following switch and sockets and accessories etc as required. 2 Nos-6A 5 pin socket 2 Nos - 6A switch 2 Nos-RJ - 45 data socket Make: Legrand Matt Steel Finish	Nos	3					
15	Supply & fixing of 4 module Furniture popup box with the following switch and sockets and accessories etc as required. 1 Nos-6A 3 pin Universal socket 1 Nos - 6A switch 1 Nos-RJ - 45 data socket Make: Legrand Matt Steel Finish	Nos	42					
16	Supply and wiring for 2R of 45sqmm + 1R of 2.5 Sqmm multi-strand FRLS copper conductor 660V grade wire (one wire shall be of green colour)in Suitable size FRLS PVC conduit with all standard accessories all complete as required for 6/16A power sockets from PDB to power circuits etc.	Mts	150					

S.No	Description of work	Unit	QTY	Supply		Installation		Total Amount
				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
17	Supply, Laying, Testing and Commissioning of 3 Core 2.5sqmm FRLS copper Flexible Cables in existing PVC conduit pipe / Race ways complete with all accessories like junction boxes, rubber bushes etc.as required.(White Colour - Raw Power Sockets Popup Boxes)	Mts	500					
	PART-B SUB-TOTAL							
III	PART-C CABLES AND TERMINATIONS							
1	LT CABLES							
1.1	Supply and laying of following sizes of 1.1KV grade XLPE insulated armoured FRLS grade cable with aluminium conductor multistring cable with ISI markings of approved make and quality from Existing AHU room Panel to various switch boards / Distribution boards. The cable shall be laid in the cable trays, racks (excluding supply & erection of cable trays / racks) Wherever cable are required to be laid on wall, base bracket fitted onto wall / ceiling and necessary clamps/ hardware etc. all complete and the rate for such clamps, hardware shall be included in the scope. Before laying the cable approval for the routing and the manner of laying shall be obtained from the Architect / Owner.							
a	3.5C 120 Sqmm Al. Ar.Cable (VTPN DB Incoming)	Mts	50					
b	4C 6 Sqmm CU Ar.Cable (VTPN DB to AC Outdoor)	Mts	200					
c	3C 6 Sqmm CU Ar.Cable (VTPN DB to LDB-1&2, Inverter Input)	Mts	60					
d	4C 35 Sqmm CU Ar.Cable (VTPN DB to Raw power DB)	Mts	20					
2.0	LT CABLE TERMINATION							
2.1	Supply and providing cable end termination for following sizes of 1100V grade XLPE insulated armoured FRLS grade aluminium conductor multi-strand cable with necessary gland sand jointing materials etc. all as per requirement.							
a	3.5C 120 Sqmm Al. Ar.Cable	Nos	2					
b	4C 6 Sqmm CU Ar.Cable	Nos	8					
c	3C 6 Sqmm CU Ar.Cable	Nos	6					
d	4C 35 Sqmm CU Ar.Cable	Nos	2					
	PART-C SUB-TOTAL							
IV	PART-D EARTH CONNECTION							



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				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
1	Supply and run of following sizes of bare copper from earth terminals of MV Panel Board as per statutory requirements and neatly clamped to wall, cable tray with necessary hardwares, PVC FRLS conduits at places required as directed by Architects / Consultants.							
a	No. 8 SWG copper MV Panel to VTPN DB Earth Busbar	Mts	100					
b	No. 10 SWG copper Earth Bus Bar TO AC out door & Other DBs	Mts	400					
2	Supplying & providing an earth link made out of Earth Bridge Clamp copper approximately 450mm long with 25 x 6mm copper flat with 20 Nos.25mm long 6mm dia brass bolt & nut with cable end sockets.	Nos	2					
	PART-D SUB-TOTAL							
	PART-E LUMINARIES							
	NOTE: 1.Qtys are tentative subjected to change based on Bank's requirement.							
1	Supply, Installation & commissioning of recessed mounting for Suitable Baffle Ceiling LED Linear Lights with necessary Suspended Supporting, Clamps, Rods, driver, interconnecting wires & fixing hardwares etc , (4000K/5700/6500K) (Basic price of light fixture should be not less than Rs 3500.00). However, the vendor should not claim any addition charges other than the quoted amount for this item. The above price is an indicative to the bidders.)	Nos	30					
2	CCT of the Light fittings got to be approved by Bank's Engineer / Architect Supply, Installation & commissioning of recessed mounting 18W LED down lighter (Square or Round)with necessary ,driver, interconnecting wires & fixing hardwares etc , (4000K/5700/6500K) CCT of the Light fittings got to be approved by Bank's Engineer / Architect	Nos	12					
3	Supply, Installation & commissioning of recessed or Surface mounting for Suitable Baffle Ceiling or other Type of false ceilings 12W COB spot light with necessary ,driver, interconnecting wires & fixing hardwares etc , (4000K/5700/6500K) CCT of the Light fittings got to be approved by Bank's Engineer / Architect	Nos	60					



S.No	Description of work	Unit	QTY	Supply		Installation		Total Amount (in Rs)
				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
4	Supply Installation & Commissioning of LED STRIP lights including driver, mounting arrangement (Aluminium Profile), hardwares, etc. The wattage 9W (240LEDs) per meter (one diver per Five meter 60watts 5A, 12Volt)	Mts	60					
5	Supply, Installation & commissioning of recessed or Surface mounting for Suitable Baffle Ceiling or other Type of false ceilings 22W COB spot light with necessary ,driver, interconnecting wires & fixing hardwares etc , (4000K/5700/6500K) CCT of the Light fittings got to be approved by Bank's Engineer / Architect	Nos	20					
VI	PART-E SUB-TOTAL FLOOR RACEWAYS / CONDUITS							
	NOTE: 1. Q.tys are tentative subjected to change based on Bank 's requirement.							
1	Supply, laying and installation of following trapezoidal PVC floor ducting supplied in three meters per length including trunk connector, clamp, vertical/horizontal bend etc in screed floor or on wall in line with EN 50085 including chasing and refilling the trench as per the route shown in the drawing and approved by consultant/ client at site including clamping & closing the open ends temporarily by suitable end covers against entry of dust or any foreign materials. Installation rates of PVC trunk should be inclusive of necessary hardware and arrangement required for fixing of trunk with duct connector and fastening clamp. This activity also includes Duct connector, Fastening Clamp along with associated accessories. (Including Floor Cutting & after laying side and top pacing with cement concrete 1:5 ratio of the Existing floor the floor level should be same from original level) Make : OBO , Legrand.							
a	90 mm wide x 35 mm deep UPVC duct (OBO) 100 mm wide x 38mm deep UPVC duct (Legrand)	Mts	210					



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				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
2	<p>Supply and installation of following floor junction box height adjustable from 60 to 75 mm with GI Powder coated trap and frame fitted with 2+3 mm Trap + GI load plate in line with EN 50085 suitable for 1.5 KN loading class with 10 mm floor covering protection flange complete with UPVC duct entries on all four sides and necessary recess for accommodating floor finishing material. The floor junction Trap, Frame, load plate and protection flange needs to be powder coated colour matched to the final floor finishing as per architect's choice. Make - OBO / Legrand</p> <p>The base floor boxes need to be supplied with height adjusting pillars in four corners for the first fix installation. GI hardware to make the installation complete, like supply of necessary screed anchors and grouting etc. including breaking walls, floors, etc. for structures as required including supply of all GI hardware materials, all labour and materials complete as per approved drawings, specifications of this tender and directions of Engineer-in-charge including minor civil work. (Make : OBO)</p>							
a	<p>358 mm x 358 mm GI under floor box suitable for three run of 90 x 35 mm UPVC Duct entries on all side complete with screeding cover and 358 mm x 358 mm square GI + Powder coated inspection cover complete with load plate colour matched to the floor finish with the RAL colour code confirmed by the architect. The floor boxes need to be supplied with 10 mm floor covering protection flange all around the trap and frame. (Make : OBO 358mm x 358mm Legrand 400mm x 400mm)</p>	Nos	13					
b	<p>260 mm x 260 mm GI under floor box suitable for two runs of 90 x 35 mm UPVC Duct entries on all side complete with screeding cover and 266 mm x 266 mm square GI + Powder coated inspection cover complete with load plate colour matched to the floor finish with the RAL colour code confirmed by the architect. The floor boxes need to be supplied with 10 mm floor covering protection flange all around the trap and frame. (Make : OBO 260mm x 260mm Legrand 300mm x 300mm)</p>	Nos	7					



S.No	Description of work	Unit	QTY	Supply		Installation		Total Amount (in Rs)
				Rate (in Rs)	Amount (in Rs)	Rate (in Rs)	Amount (in Rs)	
c	185 mm x 185 mm GI under floor box suitable for single run of 90 x 35 mm UPVC Duct entries on all side complete with screeding cover and 186 mm x 186 mm square GI + Powder coated inspection cover complete with load plate colour matched to the floor finish with the RAL colour code confirmed by the architect. The floor boxes need to be supplied with 10 mm floor covering protection flange all around the trap and frame. (Make : OBO 185mm x 185mm Legrand 225mm x 225mm)	Nos	10					
d	300mm x 300mm x50 mm GI vertical access box for PVC ducts entry Make: OBO/ Legrand	Nos	4					
3	Supplying and fixing of following sizes of Heavy class PVC FRLS conduit along with accessories in surface/recess including cutting the wall /Floor and making good the same in case of recessed conduit as required.							
a	40mm	Mts	50					
b	32mm	Mts	80					
c	25mm	Mts	120					
4	Supply, laying and installation of UPVC Duct for cable management, Dimensions -100mm x 50mm Make: MIK Honey well / Legrand	Mts	20					
	PART-F SUB-TOTAL							
	Grand Total			Total Supply		Total Installation		
							CGST @ 9%	
							SGST@9%	
							Total	
	Note: Floor Junction Box to Pop Up box Electricals & Data, PA System - Powder coated cable tray below the table top for wire management Horizontal And Vertical raceways to be Supplied and fixed by Furniture Contractor Scope.							



Total Amount in words inclusive of GST

(Rupees..... Only)

Date:

Authorized Signature with Seal

