

ESTIMATE FOR AUDITORIUM WORK AT THE NEW IDPT BUILDING FOR SES, MTB CAMPUS, SURAT

PART B- ELECTRICAL WORK

S. No.	Tender Specification/ Item Description	Qty A	Unit B	Unit Rate			Grand Total F=E x A
				Supply C	ITC D	Total E=C+D	
1.0	Location of Work: Surat						
2.0	The scope of the work includes all supply, erection, testing, commissioning, including supply of materials, labour and workmanship complete on turnkey basis as detailed in, specifications, terms & conditions, etc.						
3.0	Scope of work not mentioned specifically in tender document, but required for the completion of the job shall be considered as part of the tender and shall be executed free of cost.						
4.0	The contractor shall be responsible for unloading, storage, safe custody, accountability, testing etc.						
5.0	The quantity for measurement is tentative, please ensure actual quantity required before ordering to sub vendors after proper measurement. In case any materials get damaged the contractor shall replace the same at his own cost.						
6.0	Any item of equipment's/machineries or materials not shown in the specifications, drawings of as specified elsewhere, but is clearly essential to make the system operational, shall be supplied and installed by the Contractor as if it had been not shown or specified therein.						
7.0	Any site-specific work, incidental or accidental, shall be considered & included in the scope of work. Any charges/ cost to be incurred towards such work(s) shall be considered and included in the rates quoted.						
8.0	Contractor to quote the labor amount (Installation, Testing & Commissioning) and material supply amount separately.						
9.0	Client can supply majority of the items as mentioned in the BOQ. In this case contractor is bound to execute the work for labor amount only.						
10.0	All works is to be carried out at site. Actual payment will be made based on the actual work completed at site.						
11.0	On completion of the works, the contractor shall clear away and remove from the site, all surplus materials, rubbish and temporary works of every kind and leave the whole site and works clean and in workman like condition to the satisfaction of Client at his own cost. If the contractor fails to clear the site within 15 days after virtual completion/ submission of final bill whichever is earlier, it shall forfeit all his claims and the owner may get the site cleared at contractor's cost.						
12.0	Minor civil works like necessary dismantling old civil work, creating holes in the walls, grouting of all bolts, fixing of steel members, indicators, button boxes etc.						
13.0	The contractor shall provide free maintenance service for the period of 24 months from the date of handing over. (In Defect Liability Period)						
14.0	Rate quoted here shall be inclusive of Supply, loading, unloading, Installation, making connections, laying cable/pipe, testing, commissioning.						
15.0	Liaison for preparing necessary documents and drawings for getting N.O.C from D.G.V.C.L and Electrical Inspector. (All statutory fees will be paid by Client)						
16.0	If any civil work requirede that will be in vendor scope.						
SECTION A							
A.1	SETC of Distribution Boards, Double Door, IP 43 - IIK 09 with Metal door, Pre-Wired Make: Schneider/ Legrand						
A.1.1	6 Way SPN Single Door DB	1	Nos				-
A.1.2	12 Way SPN Single Door DB	1	Nos				
A.1.3	6 Way ETPN Double Door DB with PPI kit	2	Nos				
A.1.4	8 Way ETPN Double Door DB with PPI kit	2	Nos				

A.2	SETC of MCB, MCCB & ELCBs Make: Schneider/ Legrand					
A.2.1	6 - 32 Amp SP MCB (C Curve) - For Power Circuit	74	Nos			
A.2.2	40 Amp FP MCB	2	Nos			
A.2.2	63 Amp FP MCB	2	Nos			
A.2.3	40 Amp DP RCCB - 30mA	6	Nos			
A.2.3	63 Amp DP RCCB - 30mA	6	Nos			
A.2.4	25 Amp DP RCBO - 30mA	1	Nos			
A.2.4	40 Amp DP RCBO - 30mA	1	Nos			
SUB TOTAL OF SECTION A						
SECTION B						
LT Cables & Cable Termination & Cable Laying						
B.1	MEDIUM VOLTAGE CABLE Supply, laying, connection, testing and commissioning of heavy duty, medium voltage, XLPE (IS 7098 - PART-II) insulated, stranded AL/Cu conductor Armoured cables as per specification & IS. All the cable shall be FRLS. The cable shall have outer sheath of XLPE and inner sheath of PVC with stranded AL conductor wherever specified. The cable shall be laid underground in excavated trench / prepared trench / hume pipes when laid outside the building. Cable shall be laid through prepared trench / cable tray / duct / hume pipe / channel / floor trunks etc when laid inside the building. The scope shall include: Supply of Cables. Delivery of the cables at site. Unloading at site store. Shifting of cable from site store to place of installation. Excavation in hard or soft murrem / rocky area upto required depth, supply and laying of protection bricks, supply and backfilling with fine sand, leveling the ground to match with the existing condition. Laying of cable in the excavated trench / prepared trench /					
	Supply, Laying, Testing & Commissioning of LT Cable, FRLS XLPE PVC Insulated Armored Cable of the following size					
B.1.1	Copper Un Arm. Cables					
B.1.1.1	- 4c x 10 sqmm	20	mtrs			
B.1.1.1	- 4c x 4 sqmm	20	mtrs			

B.1.1.2	- 3c x 4 sqmm	20	mtrs				
B.1.1.2	- 3c x 6 sqmm	20	mtrs				
B.2	SETC of Cable Gland double Compressed heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables.						
B.2.1	- 4c x 10 sqmm	4	Nos				
B.2.2	- 4c x 4 sqmm	4	Nos				
B.2.2	- 3c x 6 sqmm	2	Nos				
B.2.3	- 3c x 4 sqmm	2	Nos				
B.3	SETC of Lugs						
B.3.1	- 4c x 10 sqmm Cu. Cable	16	Nos				
B.3.2	- 4c x 4 sqmm Cu. Cable	16	Nos				
B.3.3	- 3c x 6 sqmm Cu. Cable	6	Nos				
B.3.4	- 3c x 4 sqmm Cu. Cable	6	Nos				
	SUB TOTAL OF SECTION B						
	SECTION C						
	Internal Wiring						
Note:	<p>Scope of Work: This section covers, definition of point wiring, system of wiring and supply, installation, connection, testing and commissioning of point wiring for light points, ceiling fan points, exhaust fan points, convenience socket outlet points, power socket outlet points, bell outlet points etc. Including fixing of light fixtures, ceiling fan, exhaust fan, wall fan, bell etc</p> <ul style="list-style-type: none"> - Supply & Laying of cable/Wires in conduit - Making End Connections - Making Zari in all type wall/ Floor/ Ceiling - Feeling back the zari & making the surface as per original - Earthing of Fixture & Accessories - All connections from DB to SB & SB to SB & Power outlets, etc.. - The entire installation shall be tested for: <ul style="list-style-type: none"> * Insulation resistance. * Earth continuity. * Polarity of single pole switches 						

C.1	Supply, Installation, Connection, Testing of Commissioning of Concealed point wiring with required dia of 2 mm thick FR Rigid PVC conduit ISI marked with 1100 V grade ISI mark FRLS PVC insulated copper conductor wires i.e. 3 Nos. of 1.5 sq.mm FRLS PVC copper conductor wires from switch to the electrical point with all accessories such as 3 mm thick white Formica sheet (for electrical) for outlet box, screws and washers brass type (non-rusting), modular switches and accessories such as flush mounted switches, modular type angle holder/ batten holder/ceiling rose, modular cover plate to install switches, fan regulators, 5 amp plugs, company made flush metal box for modular switches, 16 SWG G.I. sheet metal as outlet boxes etc. to the electrical point is complete in all respect to the satisfaction of E.I.C. Preferred Make of Wire: Finolex / RR Cable/ Polycab / Apar Preferred Make of Wiring Modular Type Accessories. Schneider / Legrand/ MK-Honeywell						
C.1.1	Primary Light Point Controlled by 6 Amp Switch - (Up to 7.5 Mtrs.)	3	Point				
C.1.2	Secondary Light Point (for Every Looped Light Point) - (Up to 4 Mtrs.)	3	Point				
C.1.3	Primary Light Point Controlled by 10 Amp MCB - (Up to 10 Mtrs.) Excluding MCB	30	Point				
C.1.4	Secondary Light Point (for Every Looped Light Point) - (Up to 5 Mtrs.) Excluding MCB	149	Point				
C.1.5	5A socket outlet (5 pin) with 5A switch (on common board).	2	Point				
C.1.6	15A switch and universal socket upto satisfaction of E.I.C. (Excluding Main Line)	16	Point				
C.2	Pop-Up-Box						
C.2.1	SETC of Pop-up Boxes, 8 (2x4) Modules, with soft opening, equipped with push & slide locking system to avoid accident opening, with flush mounting box for table top/Wall. Along with 2 nos 06A socket, 1 nos 06A switch, 1 nos RJ-45, 1 nos RJ-11, 1 nos 1M HDMI port.	6	Set				
	Mains Line						

C.3	Providing and laying of circuit mains of FRLS PVC insulated copper Wires laid in with required dia. 2 mm thick Rigid PVC ISI marked conduit duly concealed in ceiling / beam / wall etc. complete to the satisfaction of the E.I.C (DB to SB and SB to SB)						
C.3.1	2 Wire x 1.5 sqmm with 1.5 mm earth wire	10	RM				
C.3.2	2 Wire x 2.5 sqmm with 1.5 mm earth wire	134.4	RM				
C.3.3	2 Wire x 4.0 sqmm with 2.5 mm earth wire	10	RM				
C.4	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected in RCC Slab, on/in wall or ceiling erected with necessary PVC fittings & Deep Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed. Deep Conduit Junction (1/2/3/4 Way) shall be used in the slab. Preferred Make of Rigid PVC Conduit: Precesion, Nihir Conduit Accessories & Fan Boxes: Precesion/ Nihir						
C.4.1	Size; 25 mm	50	RM				
C.4.2	Size; 32 mm	10	RM				
C.4.3	Size; 40 mm	10	RM				
	SUB TOTAL OF SECTION C						
	SECTION D						
	Light Fixtures & Fans						
	All Light Fixture offered shall be complete with all required mounting arrangements.						
	All Light Fixture offered shall be Min. 110 Lumen/ Watt, (Except Profile & Special Purpose Light)						
	All Light Fixture offered shall be with suitable driver						
	Each fitting required : LM-79 & LM-80 Certificates NABL approved company's or third party's laboratory)						
	Voltage: 120 to 300 V,						
	Power Factor Min. 0.85						
	CCT: 2500K to 6500K as required by client						
	LED driver efficiency: > 90 %						

	Surge Protection (Internal or External) For Indoor Min. 2 kV For Outdoor Min. 10 kV						
D.1	SETC of 24 Watt COB Spot Light LED fixtures specially commercial use, Elegant fixed spot with a focused 36 degree beam angle with CRI>80 Round, 3000K/ 5000K With Basic Rate of Rs. 1920/-	63	Nos				
D.2	SETC of 10 Watt COB Spot Light LED fixtures specially commercial use, Elegant fixed spot with a focused 36 degree beam angle with CRI>80 Round, 3000K/ 5000K With Basic Rate of Rs. 1920/-	32	Nos				
D.3	SETC of Any Decorative Light Complete with All mounting & Fixing arrangement Make: Havells/ Bajaj/ as approved by consultant With Basic Rate of Rs. 1000/-	8	Nos				
D.4	20W Batten IP20 SETC 2000 Lumen, Extruded Aluminium Decorative Batten for continuous operation and 4ft run length, suitable for Surface, Wall & Conduit mounting (with accessories). Make: Philips/ Wipro/ Havells with Basic Rate of Rs. 650/-	7	Nos				
	SUB TOTAL OF SECTION D						
	PART B- ELECTRICAL WORK GRAND TOTAL (A+B+C+D)						
		GST @18%					
	PART B- ELECTRICAL WORK	Total Amount					

Place
Date

STAMP & SIGNATURE OF THE CONTRACTOR