

Dhaba at Food Court_Ahemdabad Airport.

Estimated Cost - Electrical Works Rev-01 Dated 28th Feb ' 2024

The prices are to be quoted in the section mentioned below and shall include the supply, Installation, Testing and commissioning at site of all the equipments, ancillary materials as specified and all such items what so ever required to fulfill the intent and purpose as laid down in the specifications and/or drawings and shall include all taxes and duties on works contract basis.

S. No.	Description	Qty.	Unit	Qty.
		<i>PO</i>		<i>ACTUAL</i>
1	DISTRIBUTION BOARDS			
	Supply, erection, testing and commissioning of the following sheet steel clad wall recess mounting dust and vermin proof double door type distribution boards constructed from 16 SWG sheet steel IP 42 construction, finished with rust proof duly powder coated in approved shade with hinged gasketed door and housing the following complete with P.V.C. insulated copper busbars rated 200 amp with interconnections, neutral and earth bar assembly per phase, earthing terminals complete as approved by Architects.			
	Note : All MCBs in distribution board for power circuits shall be of C curve			
1.1	Type A			
	1-63amp FP MCB with 3 single phase banks each comprising of 63A DP RCCB(100 mA) and 10 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings.	1	Set	1.00
1.2	Type B			
	1-20 amp DP MCB + DP RCCB (100mA) and 4 nos. 6/16/20/25 amps SP 10 kA MCB(Type D) with thermal magnetic protective releases out goings.	1	Set	1.00
2	Supply installation testing and commissioning 1.2 kVA online (1ph input and 1ph output) UPS with 15 Min power back up complete with in buit Static by pass switch , Mannual external maintenance by pass switch , Rectifiers , Sealed MF batteries etc as required	1	No.	1.00
3	Supply, laying, testing & commissioning of following sizes of Cu. conductor 1.1 kV grade, armoured, XLPE insulated FRLS LT Cables/ Control Cables including necessary cleats, clamps etc. (Cables shall be partly laid in Pipes, O/H cable tray, on wall as required)			
3.1	4C – 16.0 (Cu.) FRLS Armoured XLPE Cable *	30	Mtrs	30.00
3.2	3C – 4.0 (Cu.) FRLS Armoured XLPE Cable	10	Mtrs	10.00

* Approximate and shall be as per point of supply from Airport Panel/ Isolator

Genesis Architects Pvt. Ltd
Vertex Consultant



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S. No.	Description	Qty.	Unit	Qty.
4	Supply, erection, testing & commissioning of following sizes of cable end terminations with Single compression gland for 1.1 kV grade, XLPE insulated, Cu Conductor cable			
4.1	4C – 16.0 (Cu.) FRLS Armoured XLPE Cable	2	Nos.	2.00
4.2	3C – 4.0 (Cu.) FRLS Armoured XLPE Cable	2	Nos.	2.00
5	Wiring for DB Submains with PVC insulated stranded copper conductor 1100 volt grade wires (FRLS) in surface/concealed MS surface/concealed conduit including cost of providing saddles etc as required for surface conduiting and/or cost of cutting and filling chases as required and making suitable end termination with copper lugs complete as required and as below			
5.1	2 x 6 sq.mm + 1 No. 4 Sq. mm in 25 mm dia MS Conduit	15	Mtrs	15.00
5.2	2 x 4 sq.mm + 1 No. 2.5 Sq. mm in 25 mm dia MS Conduit	65	Mtrs	65.00
6	Supplying and laying of the following earthing clamped to wall with suitable clamps saddles and fixing bolts/ in ground including the cost of digging and back filling as required and complete as required to comply with IS 3043:1987. All copper joints shall be tinned. The rates shall be inclusive of making test joints where ever required			
6.1	25X3 mm GI Strip	RO	Mtrs	
6.2	8 SWG Copper Wire	20	Mtrs	20.00
6.3	8 SWG GI Wire	50	Mtrs	50.00
6.4	1 Core 4.0 Sq. Mm FRLS Green Wire	25	Mtrs	25.00
7	Supply, erection, testing & commissioning of prefabricated GI Perforated type cable trays including Tees / Bends / Crossing / Reducers / Couping to be laid in cable trench, overhead on wall or hanged from ceiling complete with all accessories as required including support at every 1500mm as required			
7.1	150 mm x 40 x 40 x 2 mm thick with 2 Nos. 25X3mm GI Earth Strip	RO	Mtrs	



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S. No.	Description	Qty. PO	Unit	Qty. ACTUAL
8	Wiring for MCB controlled normal primary light points/ Wall Point/ Floor Point with 1.5 sq. mm PVC insulated stranded copper conductor 1100 Volt grade FRLS wires in 25 mm dia 16 SWG MS conduit in wall / ceiling including cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and including the cost of running 1.5 Sq. mm PVC insulated copper conductor wire for loop earthing etc. complete as required. (Cost of MCB included in the item for per DB).	3	Pt	3.00
9	Wiring for secondary MCB controlled normal light points/ Wall Point/ Floor Point(Looped from above point) with 1.5 sq. mm PVC insulated stranded copper conductor 1100 Volt grade FRLS wires in 25 mm 16 SWG MS conduit in wall / ceiling including cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and including the cost of running 1.5 Sq mm PVC insulated copper conductor wire for loop earthing etc. complete as required.	3	Pt	3.00
10	Wiring for MCB controlled Emergency primary light points/ Wall Point/ Floor Point with 1.5 sq. mm PVC insulated stranded copper conductor 1100 Volt grade FRLS wires in 25 mm dia 16 SWG MS conduit in wall / ceiling including cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and including the cost of running 1.5 Sq. mm PVC insulated copper conductor wire for loop earthing etc. complete as required. (Cost of MCB included in the item for per DB).	1	Pt	1.00
11	Wiring for secondary MCB controlled Emergency light points/ Wall Point/ Floor Point(Looped from above point) with 1.5 sq. mm PVC insulated stranded copper conductor 1100 Volt grade FRLS wires in 25 mm 16 SWG MS conduit in wall / ceiling including cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and including the cost of running 1.5 Sq mm PVC insulated copper conductor wire for loop earthing etc. complete as required.	1	Pt	1.00



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S. No.	Description	Qty. PO	Unit	Qty. ACTUAL
12	Wiring for a 5 pin 240 volt 6 amp single phase and neutral switch socket outlet with 2.5 sq. mm PVC insulated stranded copper conductor 1100 Volt grade wires (FRLS) in 25mm dia 16 SWG MS conduit in wall / ceiling including cost of providing circuit wiring with 2.5 sq mm PVC insulated stranded copper conductor 1100 volt grade wires and including cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and providing and fixing of a combined 5 pin 240 volt 6 amp socket outlet with safety shutters and 6 amp 240 volt single pole grid plate mounted switch with moulded cover plate in recessed GI box and including earthing of the 3rd pin with 1.5 sq mm 1100 volt grade PVC insulated stranded copper conductor wires complete as required(Switch and socket shall be as approved by the architect / Client)	2	Pt.	2.00
13	Wiring same as in Item 12 above looped from an adjacent 6 amp switch socket outlet as required and providing and fixing of a modular type 5 pin 240 Volt 6 amp shuttered socket outlet and a modular type 6 amp 240 Volt single pole switch in a recessed GI boxes with internal wiring and moulded front plates complete as required. (Switch and socket shall be as approved by the architect / Client)	2	Pt.	2.00
14	Same as above but switch and socket provided at separate location including wiring between switch and socket and complete as required	RO	Pt.	



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S. No.	Description	Qty. Po	Unit	Qty. ACTUAL
15	Wiring for 6 pin 240 volt 16 amp single phase and neutral switch socket outlets (1 outlet wired on 1 circuit) with 2.5 sq mm PVC insulated stranded copper conductor 1100 volt grade wires (FRLS) in 25mm dia 16 SWG MS conduit in wall / Ceiling including the cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and including providing and fixing 6 pin 240 volt 16 amp socket outlet with safety shutters and 16 amp 240 volt single pole grid plate mounted modular type switch with moulded cover plate in recessed GI box and including earthing of the 3rd pin with 1.5 sq mm 1100 volt grade PVC insulated stranded copper conductor wires and complete as requied(Switch and socket shall be as approved by the architect / Client)	3	Pt.	3 00
16	Wiring for 6 pin 240 volt 16 amp single phase and neutral switch socket outlets (1 outlet wired on 1 circuit) with 4.0 sq mm PVC insulated stranded copper conductor 1100 volt grade wires (FRLS) in 25mm dia 16 SWG MS conduit in wall / Ceiling including the cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and including providing and fixing 6 pin 240 volt 16 amp socket outlet with safety shutters and 16 amp 240 volt single pole grid plate mounted modular type switch with moulded cover plate in recessed GI box and including earthing of the 3rd pin with 2.5 sq mm 1100 volt grade PVC insulated stranded copper conductor wires and complete as requied(Switch and socket shall be as approved by the architect / Client)	10	Pt.	10 00



S. S. Misra
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S. No.	Description	Qty.	Unit	Qty.
17	Wiring for 6 pin 240 volt 16 amp single phase and neutral switch socket outlets (2 outlets wired on 1 circuit) with PVC insulated stranded copper conductor 1100 volt grade wires (FRLS), 4.0 sq mm upto the first outlet and 2.5 sq mm from first to the second outlet in 25mm dia 16 SWG MS conduit in wall / Ceiling including cost of providing saddles etc as required for surface conduiting and/or cost of cutting and filling chases and including providing and fixing of two sets of 6 pin 240 volt 16 amp socket outlet with safety shutters and 16 amp 240 volt single pole grid plate mounted switches with moulded cover plate in a recessed GI box including earthing of the 3rd pin with 2.5 sq mm 1100 volt grade PVC insulated stranded copper conductor wire complete as required. (Switch/Socket Shall be as per approved sample by Architect)	4	Pt.	4.00
18	Wiring for primary switch board consisting of 3 Nos. 5 pin 240 volt 6 amp single phase and neutral switch socket outlets with 3 Nos. 6A switch with PVC insulated stranded copper conductor 1100 volt grade wires (FRLS), 2.5 sq FRLS copper wire mm in 25mm dia 16 SWG MS conduit in wall / Ceiling including cost of providing saddles etc as required for surface conduiting and/or cost of cutting and filling chases and including providing and fixing prewired switch board each consisting of 3 Nos. 5 pin 240 volt 6 amp single phase and neutral switch socket outlets with 3 Nos. 6A modular switch , safety shutters in a recessed/surface GI box including earthing of the 3rd pin with 1.5 sq mm 1100 volt grade PVC insulated stranded copper conductor wire complete as required. (Switch/Socket Shall be as per approved sample by Architect) <i>Note- Conduits shall be 16 SWG MS on surface and FRLS PVC for wall concealed</i>	1	Pt.	1.00
19	Supply installation testing and fixing 3 pin 20A , 240V , single Phase metal Clad industrial socket outlet with 20A DP MCB and complete in all respects(Wiring Excluded from scope of this item)	2	Nos.	2.00
20	Supply installation testing and fixing 3 pin 25A/32A , 240V , single Phase metal Clad industrial socket outlet with 25A/32A DP MCB and complete in all respects(Wiring Excluded from scope of this item)	4	Nos.	4.00



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S. No.	Description	Qty.	Unit	Qty.
21	Supply installation testing and fixing 5 pin 25A/20A , 415V , single Phase metal Clad industrial socket outlet with 25A/20A FP MCB and complete in all respects(Wiring Excluded from scope of this item)	RO	Nos.	
22	Supply , fixing & Laying 2.0mm Thick FRLS PVC conduits on surface or concealed complete with PVC junction boxes, cover plates, PVC bends, PVC saddles, base and other accessories all made in PVC with GI screws as required to complete the job. .			
i	25 mm dia FRLS PVC conduit	35	Mtrs	
ii	20 mm dia FRLS PVC conduit	25	Mtrs	
23	Supply , fixing & Laying 16 SWG MS conduits on surface or concealed complete with PVC junction boxes, cover plates, bends, saddles, base and other accessories all made in PVC with GI screws as required to complete the job. .			
i	25 mm dia 16 SWG MS conduit	RO	Mtrs	
ii	20 mm dia 16 SWG MS conduit	135	Mtrs	
24	Supply and installation of flush mounted (Enhanced Category 6T 568 A or B) outlets with 2 mm thick GI box complete including cutting, chases, fixing of GI boxes and making good. The plastic shall be high impact, flame-retardant, UL rate thermoplastic. Dust cover / blank shall be provided to protect unused faceplate openings. Termination caps and plastic cover shall be provided to protect jack wiring.			
i	Single outlet face plate with RJ-45 Jack with information outlet	3	Nos.	3.00
ii	Duplex outlet face plate with RJ-45 Jack with information outlet	1	Nos.	1.00
25	Supply,installtion testing and commisioning of Cat-6A UTP cables in existing Conduit complete as required for Telephone and Data System	60	Mtrs	52.00
26	Supplying,installation and commisioning of CAT-6A patch cords 2 mtrs.	5	Nos	



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S. No.	Description	Qty.	Unit	Qty.
27	Supplying, installation and commisioning of CAT-6A patch cords 1 mtr.	5	Nos	
28	Installation of following light fixtures including connections and complete in all respects			
i	Recessed Downlighter	6	No	
iii	2x28W LED Tube	2	No.	
iv	LED Strip Light (Per Meter)	5	Mtrs	
iv	Signage	1	No.	1 00

Total For Electrical Works - INR

THE ABOVE EXCLUDES THE FOLLOWING:-

- 1 Equipment (Server , Ports etc) for networking / LAN system / EPABX and Centrex system , however infrastructure like Conduits / Pipes /RJ-45 sockets have been considered
- 2 Fire Alarm System
- 3 Supply of light fixtures. However installation and Wiring considered



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