

KFC Food Court Ahmedabad Airport.

Schedule of quantities - Electrical Works Dated 29th 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	Unit	Qty.	Length	Width	Height	Nos	Qty	Remark
1	MAIN Panel								
A	Incoming								
	1 No. 160 amps 16 kA 440 volt FP MCCB with Thermal Magnetic overcurrent and short circuit and with following								
B	Metering, Indication & Protection:								
a	1 Nos. 6 Parameter Multi Function Meter with 3 Nos. Cast Resin CTs and MCBs								
b	Breaker ON OFF indication Lamps								
c	R-Y-B indication lamps with MCBs								
d	ELR with CBCT								
C	Bus Bar:								
	200 A, TPN Al. Bus Bar of suitable length having Current density 1Amp/sq.mm & having high conductivity electrical grade suitable to withstand symmetrical fault level of 25 kA. Neutral busbar shall be of 100% capacity.								
D	Outgoings:								
a	3 No. 63 amps 4P MCB (Type C)								
b	5 No. 25 amps 4P MCB (Type C)								
c	7 No. 32 amps 2P MCB (Type C)								
d	1 No. 25 amps 2P MCB (Type C)								
	Main MDB as described above	1	Set				1	1	✓
	Total Qty						Total	1	
1.1	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								
i	Type A								
	1-63 amp FP MCB with 3 single phase banks each comprising of 63A DP RCCB(100 mA) and 6 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings.	2	Set				2	2	✓
	Total						Total	2	
ii	Type B								
	1-32 amp DP MCB + DP RCCB (100mA) and 12 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings.	1	Set				1	1	✓
	Total						Total	1	
ii	Type C								
	1-32 amp DP MCB + DP RCCB (100mA) and 8 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings.	2	Set				2	2	✓

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				34		17	34
	Total Qty					Total	34
6.6	1 Core 6.0 Sq. Mm FRLS Green Wire	60	Mtrs			52	52
	Total Qty					Total	52
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	30	Mtrs				
	Total Qty					Total	0
7.2	300 mm x 40 x 40 x 2 mm thick with 2 Nos. 25X3mm GI Earth Strip	15	Mtrs				
	Total Qty					Total	0
7.3	450 mm x 40 x 40 x 2 mm thick with 2 Nos. 25X3mm GI Earth Strip	10	Mtrs				
	Total Qty					Total	0
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).	4	Pt				
1	CKT-NO-1					1	1
2	CKT-NO-1					1	1
3	CKT-NO-1					1	1
4	CKT-NO-1					1	1
	Total Qty					Total	4
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.	10	Pt				
a	UPS Point-NO-1					5	5
b	UPS Point-NO-2					2	2
c	UPS Point-NO-3					2	3
	Total Qty					Total	10
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				0

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a	UDB-1						1	1	
Total Qty							Total	1	✓
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.	6	Pt						
a	UDB-1						6	6	
Total Qty							Total	6	✓
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)	8	Pt						
3 Module 6Amp Switch Socket								12	12
Less Overrun Qty								-4	
Total Qty							Total	8	✓
13	Wiring same as in Item 12 above looped from an adjacent 8 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)	12	Pt						
a	For cctv and pos						12	12	
Total Qty							Total	12	✓
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 required(Switch and socket shall be as approved by the architect / Client)	6	Pt						
Total Qty							Total	6	✓

→ Additional Exceed Qty 12

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22	Supply installation testing and fixing 5 pin 32A , 415V , single Phase metal Clad industrial socket outlet with 32A FP MCB and complete in all respects(Wiring Excluded from scope of this item)	1	Nos.					1	1
Total Qty						Total		1	✓
23	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	30	Mtrs					13	13
	For counter							13	13
Total Qty						Total		26	✓
ii	20 mm dia FRLS PVC conduit	60	Mtrs					19	19
	CCTV Point 1							18	18
	CCTV Point 2							12	12
	CCTV Point 3							6	6
	CCTV Point 4							9	9
	CCTV Point 5							12	12
	CCTV Point 6							13	13
	CCTV Point 7							9	9
	CCTV Point 8							17	17
	CCTV Point 9								
	Less Overrun Qty								-55
Total Qty						Total		60	✓
25	Supply and Installation of following in wall mounted MS enclosure								
i	32A/25A FP RCBO	2	Nos						
Total Qty						Total		0	
ii	32A/25A DP RCBO	5	Nos						
Total Qty						Total		0	
26	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	16	Nos.					10	10
Total Qty						Total		10	✓
ii	Duplex outlet face plate with RJ-45 Jack with information outlet	4	Nos.					4	4
Total Qty						Total		4	✓
27	Supply, installation testing and commissioning of Cat-6A UTP cables in existing Conduit complete as required for Telephone and Data System	200	Mtrs						
	CCTV Point 1							22	22
	CCTV Point 2							21	21
	CCTV Point 3							15	15
	CCTV Point 4							9	9
	CCTV Point 5							11	11
	CCTV Point 6							15	15
	CCTV Point 7							16	16
	CCTV Point 8							11	11

Additional
need
Qty

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	CCTV Point 9						20	20
	Adani Camera						22	22
	Adani Data						17	17
	Adani Data						17	17
	Total Qty						Total	196 ✓
28	Supplying, installation and commissioning of CAT-6A patch cords 2 mtrs.	22	Nos					
	Total Qty						Total	0
29	Supplying, installation and commissioning of CAT-6A patch cords 1 mtr.	22	Nos					
	Total Qty						Total	0
30	Installation of following light fixtures including connections and complete in all respects							
i	25/15/12Watt Recessed Down Lighter	7	No.					
	Total Qty						Total	0
ii	Signage	2	No.					
	Total Qty						Total	0 ✓
iii	2X20W FTL LED	11	No.					
	Total Qty						Total	0

THE ABOVE EXCLUDES THE FOLLOWING:-

- 1 Equipment (Server , Ports etc) for networking / LAN system / EPABX and Centrex system , however
- 2 Fire Alarm System
- 3 Supply of light fixtures. However installation and Wiring considered

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