

Budwesies Electrical

D42_Lucknow Airport

Schedule of Quantities - Electrical Works Dated 06th Feb 2023

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
E AHU Starters In Maon Panel									
a	1 Nos. Fully automatic 0.75 KW Motor DOL starter with 16A TP Type C Curve MCB , 9A TP Contactor , ON/OFF push buttons and on/off/Trip indicating lights , A/M selector switch for local/remote operations, CT operated Digital Ammeter, suitable NO & NC Potential free contacts for Interlocking with Fire alarm panel 1.4A -2.3 A O/L relay with inbuilt single phase preventor , selector switches etc as required.								
b	1 Nos. Fully automatic 1.5 KW Motor DOL starter with 20A TP Type C Curve MCB , 9A TP Contactor , ON/OFF push buttons and on/off/Trip indicating lights , A/M selector switch for local/remote operations, CT operated Digital Ammeter, suitable NO & NC Potential free contacts for Interlocking with Fire alarm panel 2.5A -4.0 A O/L relay with inbuilt single phase preventor , selector switches etc as required.								
c	1 Nos. Fully automatic 2.25 KW Motor DOL starter with 25A TP Type C Curve MCB , 16A TP Contactor , ON/OFF push buttons and on/off/Trip indicating lights , A/M selector switch for local/remote operations, CT operated Digital Ammeter, suitable NO & NC Potential free contacts for Interlocking with Fire alarm panel 4.5A -7.5 A O/L relay with inbuilt single phase preventor , selector switches etc as required.								
	Main MDB as described above	1	Set					1	1 ✓
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								
	1-63amp FP MCB with 3 single phase banks each comprising of 63A DP RCCB(100 mA) and 12 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings.	1	Set						
Total								0	
ii									
	1-63amp 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.	1	Set						
Total								0	

Divesh Tarkatti
03/09/24

iii	Type C								
	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						
								Total	0
iv	Type D								
	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.	1	Set						
								Total	0
2	Supply installation testing and commisioning 3.0 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.						
								Total	0
3	Supply, laying, testing & commissioning of following sizes of Al/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	3.5C – 70.0 (Al.) FRLS Armoured XLPE Cable *	40	Mtrs						
								Total	0
3.2	4C – 4.0 (Cu.) FRLS Armoured XLPE Cable	RO	Mtrs						
3.2	3C – 4.0 (Cu.) FRLS Armoured XLPE Cable	100	Mtrs						
								Total	0
3.3	3C – 6.0 (Cu.) FRLS Armoured XLPE Cable	10	Mtrs						
								Total	0
	* Approximate and shall be as per point of supply from Airport Panel/ Isolator								
4	Supply, erection, testing & commissioning of following sizes of cable end terminations with Single compression gland for 1.1 kV grade, XLPE insulated, Al/Cu Conductor cable								
4.1	3.5C – 70.0 (Al.) FRLS Armoured XLPE Cable *(Double Compression)	2	Nos.						
								Total	0
4.2	4C – 4.0 (Cu.) FRLS Armoured XLPE Cable	RO	Nos.						
4.3	3C – 4.0 (Cu.) FRLS Armoured XLPE Cable	6	Nos.						

Divesh Tenpathi
03/09/24

6.3	8 SWG Copper Wire	30	Mtrs						
								Total	0
6.4	8 SWG GI Wire	200	Mtrs						
								Total	0
6.5	1 Core 6.0 Sq. Mm FRLS Green Wire	30	Mtrs						
								Total	0
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	300 mm x 40 x 40 x 2 mm thick with 2 Nos. 25X3mm GI Earth Strip	25	Mtrs						
								Total	0
7.2	150 mm x 40 x 40 x 2 mm thick with 2 Nos. 25X3mm GI Earth Strip	60	Mtrs						
								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).	19	Pt						
	R1- Lighting							1	1
	R2- Lighting							1	1
	R3- Lighting							1	1
	R4- Lighting							1	1
	R5- Furniture Sk							1	1
	R6- Signages							1	1
	Y1- Lighting							1	1
	Y2- Lighting							1	1
	Y3- Lighting							1	1
	Y4- Lighting							1	1
	Y5- Furniture Sk							1	1
	Y6- Pest O Flush							1	1
	B1- Lighting							1	1
	B2- Lighting							1	1
	B3- Lighting							1	1
	B4- Lighting							1	1
	B5- Signages							1	1
	CKT-1 - Lighting (BOH & Bar)							1	1
	CKT-2 - Lighting (BOH & Bar)							1	1
	CKT-3 - Lighting (BOH & Bar)							1	1
								Total	20

Divesh Tripathi
03/09/24

20/19

Point 8								1	1
Point 9								1	1
Point 10								1	1
Point 11								1	1
Point 12								1	1
Point 13								1	1
Point 14								1	1
Point 15								1	1
Point 16								1	1
Point 17								1	1
Point 18								1	1
Point 19								1	1
Point 20								1	1
Point 21								1	1
Point 22								1	1
Point 23								1	1
Point 24								1	1
								Total	17
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)	6	Pt.						
								2	2
	Point 14							2	2
	Point 15							2	2
	Point 19							2	2
	Point 20							2	2
								Total	8
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>	3	Pt.						
	Point 13							3	3
								Total	3
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)	10	Nos.						
	Point 25							7	7
								Total	7

Divesh Joshi
03/09/24

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)	2	Nos.					2	2
	Point 28								
								Total	2 ✓
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)	1	Nos.					1	1
	Point 27								
								Total	1 ✓
22	Supply installation testing and fixing 5 pin 40A , 415V , single Phase metal Clad industrial socket outlet with 40A FP MCB and complete in all respects(Wiring Excluded from scope of this item)	1	Nos.					1	1
	Point 26								
								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	50	Mtrs						
								Total	0
ii	20 mm dia FRLS PVC conduit	60	Mtrs						
								Total	0
24	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	RO	Mtrs						
25	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	2	Nos.						
								Total	0
ii	Duplex outlet face plate with RJ-45 Jack with information outlet	3	Nos.						

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03/09/24

