

Electrical - Showroom

D41 & D41A - Lucknow Airport										
Bill of Quantities - Electrical Works Dated 09th Oct 2023										
The prices are to be quoted in the section mentioned below and shall include the supply, installation, testing										
S. No.	Description	Unit	Unit	L	W	H	No.	Total	Remark	
E	POB (In built inside the Panel)									
	1-63amp FP MCB with 3 single phase banks each comprising of 63A DP RCCB(100 mA) and 7 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings									
	Main MDB as described above	1	Set					1	1	
	Total Bill Qty							Total	1	
	Previous Bill Qty								0	
	Present Bill Qty								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 duty 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 6 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings	1	Set					1	1	
	Total Bill Qty							Total	1	
	Previous Bill Qty								0	
	Present Bill Qty								1	
ii	Type B									
	1-40amp FP MCB with 3 single phase banks each comprising of 40A DP RCCB(100 mA) and 8 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings	1	Set					1	1	
	Total Bill Qty							Total	1	
	Previous Bill Qty								0	
	Present Bill Qty								1	
iii	Type C									
	1-32 amp DP MCB + DP RCCB (100mA) and 10 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings	1	Set					1	1	
	Total Bill Qty							Total	1	
	Previous Bill Qty								0	
	Present Bill Qty								1	
2	Supply installation testing and commissioning 3.0 kVA online (1ph input and 1ph output) UPS with 15 Min power back up complete with in built Static by pass switch ; Manual external maintenance by pass switch ; Rectifiers , Sealed MF batteries etc as required	1	No.					1	1	
	Total Bill Qty							Total	1	
	Previous Bill Qty								0	
	Present Bill Qty								1	

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4.07
5.00
5.01
5.01A
5.01A

Total Bill Qty
Previous Bill Qty
Present Bill Qty
5.4 2 x 16 sq.mm + 1 No. 4 Sq. mm
Total Bill Qty
Previous Bill Qty
Present Bill Qty

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, D/H cable tray, on wall as required)				8	8
3.1	3.5C - 70.0 (Al) FRLS Armoured XLPE Cable *	40	Mtrs			
					8	8
	Total Bill Qty				8	8
	Previous Bill Qty				0	0
	Present Bill Qty				8	8
3.2	4C - 4.0 (Cu) FRLS Armoured XLPE Cable	40	Mtrs		18	18
					18	18
	Total Bill Qty				18	18
	Previous Bill Qty				0	0
	Present Bill Qty				18	18
3.3	3C - 6.0 (Cu) FRLS Armoured XLPE Cable	20	Mtrs		8	8
					8	8
	Total Bill Qty				8	8
	Previous Bill Qty				0	0
	Present Bill Qty				8	8
	* 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.		0	0
					0	0
	Total Bill Qty				0	0
	Previous Bill Qty				0	0
	Present Bill Qty				0	0
4.2	4C - 4.0 (Cu) FRLS Armoured XLPE Cable	2	Nos.		2	2
					2	2
	Total Bill Qty				2	2
	Previous Bill Qty				0	0
	Present Bill Qty				2	2
4.3	3C - 6.0 (Cu) FRLS Armoured XLPE Cable	2	Nos.		2	2
					2	2
	Total Bill Qty				2	2
	Previous Bill Qty				0	0
	Present Bill Qty				2	2
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	4 x 16 sq.mm + 2 No. 6.0 Sq. mm in 40 mm dia MS Conduit	10	Mtrs		8	8
					8	8
	Total Bill Qty				8	8
	Previous Bill Qty				0	0
	Present Bill Qty				8	8
5.2	4 x 10 sq.mm + 2 No. 4.0 Sq. mm in 32 mm dia MS Conduit	10	Mtrs		8	8
					8	8
	Total Bill Qty				8	8
	Previous Bill Qty				0	0
	Present Bill Qty				8	8
5.3	4 x 4 sq.mm + 2 No. 2.5 Sq. mm in 32 mm dia MS Conduit	RO	Mtrs			
5.4	2 x 10 sq.mm + 1 No. 6 Sq. mm in 25 mm dia MS Conduit	15	Mtrs		8	8
					8	8

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Total Bill Qty						Total	8
Previous Bill Qty							0
Present Bill Qty							8
5.4	2 x 6 sq.mm + 1 No. 4 Sq. mm in 25 mm dia MS Conduit	20	Mtrs			8	8
Total Bill Qty						8	8
Previous Bill Qty							0
Present Bill Qty							8
a		MDB to Hot Bain marie 5kw					
b		MDB to UPS DB					
Total Bill Qty							
Previous Bill Qty							
Present Bill Qty							
6.5	2 x 4 sq mm + 1 No. 2.5 Sq. mm in 25 mm dia MS Conduit	200	Mtrs				
a	R-1 MDB To Griller 2.25 kw			16.80		1	16.80
b	R-2 MDB To Chiller 1 kw			13.00		1	13.00
c	R-3 MDB To Chiller 1 kw			12.00		1	12.00
d	R-4 MDB To dosa 1 kw			9.00		1	9.00
e	R-5 MDB To Chiller 1 kw			14.00		1	14.00
f	Y-1 MDB To Griddle 3 kw			11.00		1	11
g	Y-2 MDB To Hot Food 1.9kw			8.00		1	8
h	Y-3 MDB To Cofee 2 kw			12.00		1	12
i	Y-4 MDB To Griller 2.8 kw			10.00		1	10
j	Y-5 MDB To Cold bain marie 1.5 kw			14.00		1	14
k	B-1 MDB To Fryer 3 kw			12.00		1	12
l	B-2 MDB To			10.00		1	10
m	B-3 MDB To			8.00		1	8
n	B-4 MDB To Bain Marie 1 kw			9.00		1	9
o	B-5 MDB To RO 0.5 kw			11.00		1	11
p	B-6 MDB To						0
q	MDB to Hot Geyser 2kw			12.00		1	12
r	for hood			13.00		0	0
Total Bill Qty							181.80
Previous Bill Qty							181.8
Present Bill Qty							0
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	25X6 mm GI Strip	20	Mtrs				
Total Bill Qty							0
Previous Bill Qty							0
Present Bill Qty							0
6.2	25X3 mm GI Strip	30	Mtrs				
Total Bill Qty							0
Previous Bill Qty							0
Present Bill Qty							0
6.3	8 SWG Copper Wire	30	Mtrs			0	0
Total Bill Qty							0
Previous Bill Qty							0
Present Bill Qty							0
6.4	8 SWG GI Wire	150	Mtrs				
Total Bill Qty							0
Previous Bill Qty							0
Present Bill Qty							0
6.5	1 Core 6.0 Sq. Mm FRLS Green Wire	35	Mtrs				
Total Bill Qty							0
Previous Bill Qty							0
Present Bill Qty							0

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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).	2	Pt						
a	U-1								1
b	U-								1
Total Bill Qty									2
Previous Bill Qty									2
Present Bill Qty									0
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.	12	Pt						
a	U-1								5
b	U-1-a								6
Total Bill Qty									11
Previous Bill Qty									2
Present Bill Qty									9
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)	6	PL						
a	UPS DB- R-3								1
b	UPS DB- R-4								1
c	UPS DB- R-5								1
d	UPS DB- R-6								1
e	UPS DB- R-7								1
Total Bill Qty									5
Previous Bill Qty									5
Present Bill Qty									0
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)	14	PL						
a	UPS DB- R-3								3
b	UPS DB- R-4								2
c	UPS DB- R-5								2
d	UPS DB- R-6								3
e	UPS DB- R-7								3
Total Bill Qty									13
Previous Bill Qty									11
Present Bill Qty									2

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13
11
2
0

Previous Bill Qty											
Present Bill Qty											
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 conducting 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). Note- Conduits shall be 16 SWG MS on surface and FRLS PVC for wall concealed	3	Pt					0	3		
b	PDB- B3							2	2		
c	PDB- B4							2	2		
d	PDB- Y-1							1	1		
Total Bill Qty								Total	5		
Previous Bill Qty										5	
Present Bill Qty										6	
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)	6	Nos								
a								6	6		
Previous Bill Qty								Total	6		
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)	12	Nos								
a								12	12		
Previous Bill Qty								Total	12		
21	Supply installation testing and fixing 3 pin 40A , 240V , single Phase metal Clad industrial socket outlet with 40A DP MCB and complete in all respects(Wiring Excluded from scope of this item)	2	Nos								
a								2	2		
Previous Bill Qty								Total	2		
Total Bill Qty										0	
Previous Bill Qty										2	
Present Bill Qty										2	
22	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								
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	125	Mtrs								
FOR NET SYSTEM								Total	11		
a	Cash Counter 1 from tap-off point										
b	Cash Counter 2 from tap-off point										
c	Cash Counter 3 from tap-off point										
Total Bill Qty								Total	45		
Previous Bill Qty										0	

SIGN OFF THIS QTY AT SITE

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Present Bill Qty			46		
ii	20 mm dia FRLS PVC conduit	100 Mtrs		0	0
	For cctv system		8	8	8
1	cctv-1		8	16	16
2	cctv-2		8	8	8
3	cctv-3		17	17	17
4	cctv-4		10	10	10
5	cctv-5		20	20	20
6	cctv-6				
7	cctv-7				
8	cctv-8				
9	cctv-9				
10	cctv-10				
11	cctv-11				
12	cctv-12				
LESS OVERRUN QTY (CHECK IN FINAL BILL)					
Total Bill Qty			Total	87	87
Previous Bill Qty					
Present Bill Qty					
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	10 Nos.	6	6	6
Total Bill Qty			Total	6	6
Previous Bill Qty				0	0
Present Bill Qty				6	6
ii	Duplex outlet face plate with RJ-45 Jack with information outlet	3 Nos.	2	2	2
Total Bill Qty			Total	2	2
Previous Bill Qty				0	0
Present Bill Qty				2	2
26	Supply, installation testing and commissioning of Cat-6A UTP cables in existing Conduit complete as required for Telephone and Data System	250 Mtrs		0	0
	For cctv system		10	10	10
1	cctv-1		15	15	15
2	cctv-2		12	12	12
3	cctv-3		8	8	8
4	cctv-4		15	15	15
5	cctv-5		15	15	15
6	cctv-6		21	21	21
7	cctv-7		15	15	15
8	cctv-8		12	12	12
9	cctv-9		8	8	8
10	cctv-10		15	15	15
11	cctv-11		16	16	16
12	cctv-12				
LESS OVERRUN QTY (CHECK IN FINAL BILL)					
Total Bill Qty			Total	162	162
Previous Bill Qty					
Present Bill Qty					

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27	Supplying, installation and commissioning of CAT-6A patch cords 2 mtrs.	18	Nos						
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28	Supplying, installation and commissioning of CAT-6A patch cords 1 mtr.	16	Nos					Total	0
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29	Installation of following light fixtures including connections and complete in all respects							Total	0
i	15/12Watt Recessed Down Lighter	55	No.					52	52
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Total Bill Qty									
Previous Bill Qty								Total	62
Present Bill Qty									0
ii	LED Strip Light (Per Meter)								62
a	Counter profile light	88	Mtrs						0
b	Shawarna overhead storage shelves profile light							14	14
c	Masala overhead storage shelves profile light							2.8	2.8
d	ceiling profile light							3	3
e	Ceiling cove light							12	12
f	Hanging ms light strip							12	11
g	bulkhead cove light		4.40					10	44.00
								14	14
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LESS OVERRUN QTY (CHECK IN FINAL BILL)									
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Total Bill Qty								Total	88
Previous Bill Qty									0
Present Bill Qty									88
iii	Signage	12	No.						
iv	6W Pendant Light	13	No.						13
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								Total	13 0

Total For Electrical Works - INR -

- 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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