

# Electrical Checked MB

S.No.	Service Code	Description	Unit	No.s	L	B	H.	Total
<b>MEASUREMENTS</b>								
1	Part I	<b>ELECTRICAL</b>						
2	A	<b>SUB HEAD I - WIRING</b>						
3	1.1	Wiring for primary light points for Switch controlled points with 2.5 sq. mm LSZH PVC Insulated stranded /multi stranded copper conductor 1100 Volt grade wires in IS embossed 25mm dia FRLSH PVC surface /concealed conduit including cost of providing saddles hangers supports from soffit of slab etc for surface conduiting, ceiling conduiting and/or cost of cutting and filling chases for recessed conduiting, and Including the cost of Supply and fixing a 6 amp 240 Volt grid plate mounted switch with moulded cover plate in zinc chromate passivated GI box and including the cost of running 2.5 sq. mm LSZH PVC insulated copper earth wire for loop earthing etc. complete as directions of Engineer-in-charge and as required.	No,s					
		<b>LDB (LIGHT DB)</b>						
4		<b>PWR LAY, 2x2.5+1.5sqmm Primary ckt</b>						
5		LDB-R1 To L1	No,s	1	✓			1
6		LDB-R2 To L1	No,s	1	✓			1
7		LDB-R3 To L1	No,s	1	✓			1
8		LDB-Y1 To L1	No,s	1	✓			1
9		LDB-Y2 To L1	No,s	1	✓			1
10		LDB-Y3 To L1	No,s	1	✓			1
11		LDB-B1 To L1	No,s	1	✓			1
12		LDB-B2 To L1	No,s	1	✓			1
13		LDB-B3 To L1	No,s	1	✓			1
		LDB-B4 To L1	No,s	1	✓			1
18		<b>Sub Total</b>						<b>10</b>
29	1.2	Wiring for primary light points for DB / Dimmer/ Sensor/ Automation controlled points with 2.5 sq. mm LSZH PVC Insulated stranded/multi stranded copper conductor 1100 Volt grade wires in IS embossed 25mm dia FRLSH PVC surface/concealed conduit Including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for recessed conduiting and including the cost of running 2.5 sq. mm LSZH PVC insulated copper earth wire for loop earthing etc. complete as directions of Engineer-in-charge and as required. (Cost of MCB/Switch shall be considered in this item.) (Normal)	nos					
		LDB-R4 To Admin area Sensor light	No,s	1	✓			1
		LDB-Y4 To Admin Fixture light	No,s	1	✓			1
		<b>Sub Total</b>						<b>2</b>

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30	1.3	Wiring for primary light points for DB/ Dimmer/ Sensor/ Automation controlled points with 2.5 sq. mm LSZH PVC Insulated stranded/multi stranded copper conductor 1100 Volt grade wires in IS embossed 25mm dia FRLSH PVC surface/concealed conduit including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for recessed conduiting and including the cost of running 2.5 sq. mm LSZH PVC insulated copper earth wire for loop earthing etc. complete as directions of Engineer-in-charge and as required. (Cost of MCB/Switch shall be consider in this Item). (Emergency)	nos						
		<b>EDB( INDICATE EMERGENCY LIGHT DB)</b>							
		EDB-C1 To EL1 ✓	No,s	1 ✓					1
		EDB-C2 To EL1 ✓	No,s	1 ✓					1
		EDB-C3 TO EL1 ✓	No,s	1 ✓					1
		<b>Sub Total</b>							<b>3</b>
31	1.4	Wiring for secondary light points with 2.5 sq. mm LSZH PVC insulated stranded/multistranded copper conductor 1100 Volt grade wires in surface/concealed in IS embossed 25mm dia FRLSH PVC conduit including cost of providing saddles hangers supports from soffit of slab etc for surface conduiting, ceiling conduiting and/or cost of cutting and filling chases for recessed conduiting Including the cost of running 2.5 sq. mm LSZH PVC insulated copper earth wire for loop earthing etc. complete as directions of Engineer-in-charge and as required. (Normal)	nos						
		<b>LDB-R1 Secondary loop point</b>							
		Primary L1 TO Secondary L1	No,s	1					1
		L1 TO L2	No,s	1					1
		L2 TO L3	No,s	1					1
		L3 TO L4	No,s	1					1
		L4 TO L5	No,s	1					1
		<b>LDB-R2 Secondary loop point</b>							<b>5</b>
		Primary L1 TO Secondary L1	No,s	1					1
		L1 TO L2	No,s	1					1
		L2 TO L3	No,s	1					1
		L3 TO L4	No,s	1					1
		L4 TO L5 LED Strip	No,s	1					1
									<b>5</b>
		<b>LDB-R3 Secondary loop point LED Stip</b>							
		Primary L1 TO Secondary L1	No,s	1					1
		L1 TO L2	No,s	1					1
		L2 TO L3	No,s	1					1
		L3 TO L4	No,s	1					1
		L4 TO L5	No,s	1					1
									<b>5</b>
		<b>LDB-Y1 Secondary loop point</b>							
		Primary L1 TO Secondary L1	No,s	1					1
		L1 TO L2	No,s	1					1
		L2 TO L3	No,s	1					1
		L3 TO L4	No,s	1					1
		L4 TO L5	No,s	1					1

28/2/28.  
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28/2/24.

	L5 TO L6	No,S	1				
	L6 TO L7	No,S	1				
	L7 TO L8	No,S	1				
	<b>LDB-Y2 Secondary loop point</b>						
	Primary L1 TO Secondary L1						
	L1 TO L2	No,S	1				
	L2 TO L3	No,S	1				
	L3 TO L4	No,S	1				
	L4 TO L5	No,S	1				
	<b>LDB-Y3 Secondary loop point</b>						
	Primary L1 TO Secondary L1						
	L1 TO L2	No,S	1				
	L2 TO L3	No,S	1				
	L3 TO L4	No,S	1				
	L4 TO L5	No,S	1				
	<b>LDB-B1 Secondary loop point</b>						
	Primary L1 TO Secondary L1 KITCHEN AREA	No,S	1				
	<b>LDB-B2 Secondary loop point</b>						
	Primary L1 TO Secondary L1						
	L1 TO L2	No,S	1				
	L2 TO L3	No,S	1				
	L3 TO L4	No,S	1				
	L4 TO L5	No,S	1				
	<b>LDB-B3 Secondary loop point LED Strip</b>						
	Primary L1 TO Secondary L1	No,S	1				
	L1 TO L2	No,S	1				
	L2 TO L3	No,S	1				
	<b>Sub Total</b>						


Primary E1.1 TO Secondary E1.1	No. 9	1					1
E.1.1 TO E.1.2	No. 9	1					1
E.1.2 TO E.1.3	No. 9	1					1
<b>EDB-C3 Secondary loop point</b>							
Primary E1.1 TO Secondary E1.1	No. 9	1					1
E.1.1 TO E.1.2	No. 9	1					1
E.1.2 TO E.1.3	No. 9	1					1
E.1.3 TO E.1.4	No. 9	1					1
E.1.4 TO E.1.5	No. 9	1					1
E.1.5 TO E.1.6	No. 9	1					1
<b>Sub Total</b>							<b>6</b>

  
 28/2/24

<b>Wiring for 240 volt 6 amp Multistandard single phase and neutral switch socket outlet with 4.0 sq. mm LSZH PVC Insulated stranded/multi stranded copper conductor 1100 Volt grade wires in IS embossed 25mm dia FRLSH PVC surface/concealed conduit including cost of providing circuit wiring with 4.0 sq mm LSZH PVC Insulated stranded/ multistranded copper conductor 1100 volt grade wires and Including the cost of providing saddles etc as required for surface conduiting and/or cost of cutting and filling chases as required and Supply and fixing of a 240 volt 6 amp Multistandard socket outlet with safety shutters and 6 amp 240 volt single pole grid plate mounted switch with moulded cover plate in recessed zinc chromate passivated GI box and Including earthing of the 3rd pin with 4.0 sq. mm LSZH PVC Insulated copper earth wire conductor wires complete as directions of Engineer-in-charge and as required.</b>														
PDB- Y4 To Premium Lounge side Screen Tv 1 power point	nos	1					1							
PDB- B8 To Premium Lounge side Screen Tv 2 power point	nos	1					1							
PDB- Y7 To Admin side LED Screen Tv 3 Power point	nos	1					1							
PDB- B4 To INDIA MAP ARTWORK SIDE Power point	nos	1					1							
PDB- R5 To NEAR MERCHANDISE DISPLAY	nos	1					1							
EDB- C9 To NEAR FACP UPS POWER	nos	1					1							
EDB- C10 To FOR WI-FI UPS POWER	nos	1					1							
<b>Sub Total</b>							<b>7</b>							

  
 28/2/24

<b>Wiring as in Item 1.6 above looped from an adjacent switch socket outlet as required and Supply and fixing of a combined 240 volt 6 amp Multistandard socket outlet with safety shutters and 6 amp 240 volt single pole grid plate mounted switch with moulded cover plate in recessed zinc chromate passivated GI box and Including earthing of the 3rd pin with 4.0 sq. mm LSZH PVC Insulated copper earth wire conductor wires complete as directions of Engineer-in-charge and as required.</b>														
	nos													
<b>Secondary loop point</b>														
Premium Lounge side Screen Tv 1 power point To FDS	nos	2					2							
Premium Lounge side Screen Tv 2 power point To FDS	nos	1					1							
Admin side LED Screen Tv 3 Power point To SBI	nos	1					1							

  
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34	1.7						
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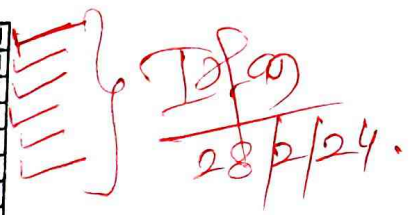
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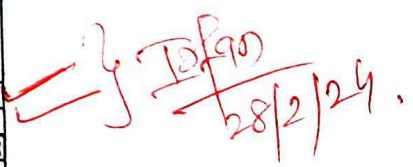
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		INDIA MAP ARTWORK SIDE Power point To Reception	nos	1					1
		Reception To 6U Networking Rack	nos	1					1
		EDB-C9 To NEAR FACP UPS POWER	nos	3					3
		WI-FI,1 UPS POWER To WI-FI,2	nos	1					1
		WI-FI,2 UPS POWER To WI-FI,3	nos	1					1
		<b>Sub Total</b>							<b>11</b>
		Wiring for a multi-pin 240 volt 6-13 amp single phase and neutral universal switch socket outlet with 4.0 sq. mm LSZH PVC Insulated stranded copper conductor 1100 Volt grade wires in 25 mm dia LSZH PVC surface/concealed conduit Including the cost of providing circuit wiring with 4.0 sq mm LSZH PVC Insulated stranded copper conductor 1100 volt grade wires and Including cost of providing brackets, saddles etc as required for surface conducting and/or cost of cutting and filling chases as required and providing and fixing of a combined multi-pin 240 volt 6-13 amp universal socket outlet with safety shutters and 6 amp 240 volt single pole grid plate mounted switch with moulded cover plate in recessed galvanized box and including earthing of the 3rd pin with 4.0 sq mm 1100 volt grade LSZH PVC Insulated stranded copper conductor wires complete as directions of Engineer-in-charge and as required.	nos	1					1
35	1.8	<b>EDB TO UPS POWER POINT 6/13A, SWITCH &amp; SOCKET</b>							
		EDB-C4 To LED Screen UPS Power	No.S	1					1
		EDB-C5 To Admin side Screen TV	No.S	1					1
		EDB-C6 To FDS	No.S	1					1
		EDB-C7 To Reception Table	No.S	1					1
		<b>PDB TO RAW POWER</b>							
		PDB-Y8 TO SBI RAW POWER FDS NEAR DECK CHILLER SIDE	No.S	1					1
		PDB-B7 TO ADMIN SCREEN TV SIDE	No.S	1					1
		PDB-V7 TO SBI LED TV	No.S	1					1
		PDB-R8 TO SBINEAR DECK CHILLER	No.S	1					1
		PDB-Y11 To FDS	No.S	1					1
		PDB-B11 To SBI NEAR FDS	No.S	1					1
		<b>Sub Total</b>							<b>10</b>
		Wiring as in Item 1.8 above looped from an adjacent switch socket outlet as per specifications and directions of Engineer-in-charge and providing and fixing of a modular type multi-pin 240 Volt 6-13 amp shuttered socket outlet and a modular type 6 amp 240 Volt single pole rocker type switch in a recessed galvanized boxes with internal wiring and moulded front plates complete as directions of Engineer-in-charge and as required.	nos	1					1
36	1.9	<b>UPS POWER POINT 6/13A, SWITCH &amp; SOCKET</b>							
		EDB-C4 LED Screen UPS Power	No.S	1					1
		EDB-C5 Admin side Screen TV	No.S	1					1
		EDB-C6 FDS	No.S	2					2
		EDB-C7 Reception Table	No.S	1					1
		EDB-C8 FDS	No.S	1					1
		<b>PDB TO RAW POWER</b>							

		PDB-Y8 SB1 RAW POWER FDS NEAR DECK CHILLER SIDE	No,s	1					1
		PDB-B7 ADMIN SCREEN TV SIDE	No,s	1					1
		PDB-Y7 SB1 LED TV	No,s	1					1
		PDB-R8 SB1 NEAR DECK CHILLER	No,s	1					1
		PDB-Y11 FDS	No,s	1					1
		PDB-B11 SB1 NEAR FDS	No,s	1					1
		<b>Sub Total</b>							<b>12</b>
37	1.10	Supply , Installation, Testing and comissioning of IP 66 EGA Boxes with all standard accessories consisting of following: a) 3nos 6-13 amp socket with single Switch b) 2nos Data outlets with includes of Data wiring and terminations. Wiring for socket outlet with 4.0 sq. mm LSZH PVC insulated stranded copper conductor 1100 Volt grade wires in 25 mm dia LSZH PVC surface/concealed Conduit / Raceways including the cost of providing circuit wiring with 4.0 sq mm LSZH PVC insulated stranded copper conductor 1100 volt grade wires and including cost of providing brackets, saddles etc as required for surface conduiting and/or cost of cutting and filling chases as required and providing and fixing of a EGA Box complete as directions of Engineer-in-charge and as required.	nos						X
38	1.11	Wiring for 6 pin 240 volt 16 amp single phase and neutral Universal switch socket outlets with 4.0 sq. mm LSZH PVC insulated stranded/multi stranded copper conductor 1100 volt grade wires in IS embossed 25mm dia FRLSH PVC 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 including Supply and fixing of a 240 volt 16 amp socket outlet with safety shutters and 16 amp 240 volt single pole grid plate mounted switch with moulded cover plate in a recessed zinc chromate passivated GI box including earthing of the 3rd pin with 4.0 sq. mm 1100 volt grade LSZH PVC insulated stranded copper earth wire complete as directions of Engineer-in-charge and as required.	Nos.						
		PDB1 To R5	No,s	1					1
		PDB1 To B10 NEAR FDS	No,s	1					1
		<b>Sub Total</b>							<b>2</b>
39	1.12	Wiring for 25 amp SPN isolator for Geyser with 4.0 sq. mm LSZH PVC insulated standed/multi stranded copper conductor 1100 volt grade wires in PVC 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 including providing and fixing of a 25 amp terminal block in recessed GI box with conduit Bend out for connection to equipment including earthing with 2 nos 4.0 sq mm 1100 volt grade PVC insulated FRLS multistranded copper conductor wire complete as directions of Engineer-in-charge and as required.	Nos.						
		PDB-R1 To Geyser used Power point							

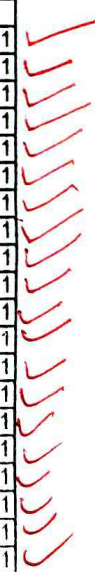

  
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		<b>Sub Total</b>	No,s	1					1
40	1.13	Wiring for 25 amp TPN Isolator for HVAC Fan & Scrubber with 4.0 sq. mm LSZH PVC insulated standed/multi stranded copper conductor 1100 volt grade wires in PVC surface/concealed conduit including cost of providing saddles etc as required for surface conducting and/or cost of cutting and filling chases as required and including providing and fixing of a 25 amp terminal block in recessed GI box with conduit Bend out for connection to equipment including earthing with 2 nos 4.0 sq mm 1100 volt grade PVC Insulated FRLS multistranded copper conductor wire complete as directions of Engineer-in-charge and as required.	Nos.						
		Electrical Panel to Scrubber Isolater HVAC Fan	No,s	1					1
		Electrical Panel to Scrubber Isolater	No,s	1					1
		<b>Sub Total</b>							<b>2</b>
41	1.14	Wiring for a multi-pin 240 volt 5/15 amp single phase and neutral universal switch socket outlet with 4.0 sq. mm LSZH PVC insulated stranded copper conductor 1100 Volt grade wires in 25 mm dia LSZH PVC surface/concealed conduit including the cost of providing circuit wiring with 4.0 sq mm LSZH PVC insulated stranded copper conductor 1100 volt grade wires and including cost of providing brackets, saddles etc as required for surface conducting and/or cost of cutting and filling chases as required and providing and fixing of a combined multi-pin 240 volt 5/15 amp universal socket outlet with safety shutters and 15 amp 240 volt single pole grid plate mounted switch with moulded cover plate in recessed galvanized box and including earthing of the 3rd pin with 4.0 sq mm 1100 volt grade LSZH PVC insulated stranded copper conductor wires complete as directions of Engineer-in-charge and as required.	Nos.						
		<b>KDB TO POWER POINT</b>	No,s						
		KDB-R1 To Open Chiller	No,s	1					1
		KDB-R2 To Heat Lamp	No,s	1					1
		KDB-R3 To Trap 25.5Ltrs	No,s	1					1
		KDB-R4 To Used work table	No,s	1					1
		KDB-R5 To U/C Chiller	No,s	1					1
		KDB-R7 To UC Chiller	No,s	1					1
		KDB-Y1 To Conveyer/Toaster	No,s	1					1
		KDB-Y2 To Juice Dispenser	No,s	1					1
		KDB-Y3 To Sunk cold power point	No,s	1					1
		KDB-Y4 To Tea & Coffee power point	No,s	1					1
		KDB-Y5 To Induction	No,s	1					1
		KDB-Y6 To Induction	No,s	1					1
		KDB-Y7 To Exhaust Chimney power point	No,s	1					1
		KDB-Y8 To Milk Storage area	No,s	1					1
		KDB-B1 To Induction power point	No,s	1					1
		KBD-B2 To Induction power point	No,s	1					1
		KBD-B3 To Induction power point	No,s	1					1
		KBD-B4 To Induction power point	No,s	1					1
		KBD-B5 To Induction power point	No,s	1					1
		KBD-B6 To Saup Turreh power point	No,s	1					1

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DP



		KDB-B7 To Chemical Storage Area power	No,s	1						1
		KDB-B8 To Electrical Room Power point	No,s	1						1
		KDB-B9 To Chiller power point	No,s	1						1
		<b>Sub Total</b>	No,s	1						1
										23
42	1.15	Wiring for 32 amp SPN Isolator for Kitchen Equipments with 4.0 sq. mm LSZH PVC insulated standed/multi stranded copper conductor 1100 volt grade wires in PVC 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 including providing and fixing of a 32 amp terminal block in recessed GI box with conduit Bend out for connection to equipment including earthing with 2 nos 4.0 sq mm 1100 volt grade PVC Insulated FRLS multistranded copper conductor wire complete as directions of Engineer in charge and as required.	Nos.							
		KDB-R7 TO Fiyer 6Ltrs. Cap.	No,s	1						1
		KDB-R8 TO Fiyer 6Ltrs. Cap.	No,s	1						1
		KDB-R6 TO Freezer	No,s	1						1
		<b>Sub Total</b>	No,s	1						1
										3
43	1.16	Wiring for 32 amp Three phase 5Pole industrial socket outlets with 6.0 sq mm FRLS PVC insulated 1100 volt grade stranded copper conductor wires in 25 mm dia FRLS PVC surface/concealed conduit including cost of providing brackets, saddles etc as per specifications and directions of Engineer-in-charge for surface conduiting and/or cost of cutting and filling chases and including the cost of supplying and fixing 32 amp 10 kA TPN MCB, industrial type socket outlet in galvanized box, industrial plug top and including the cost of loop earthing with 6.0 sq mm FRLS PVC insulated copper conductor wires complete as per specifications and directions of Engineer-in-charge.(MCB shall be 'B' Curve)	Nos.							
		Electrical panel to hot plate kitchen side	No,s	1						1
		<b>Sub Total</b>	No,s	1						1
44	1.17	Wiring for 32 amp TPN isolator for Kitchen with 6.0 sq. mm LSZH PVC insulated standed/multi stranded copper conductor 1100 volt grade wires in PVC 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 including providing and fixing of a 32 amp terminal block In recessed GI box with conduit Bend out for connection to equipment including earthing with 2 nos 4.0 sq mm 1100 volt grade PVC Insulated FRLS multistranded copper conductor wire complete as directions of Engineer in charge and as required.	Nos.							
A		Electrical panel To Dish washer power point in kitchen area	No,s	1						1
		Electrical panel To Combi oven power point in kitchen area	No,s	1						1
		Electrical panel To Table Top Hot plate power point in kitchen area	No,s	1						1
		Electrical panel To 4 Zone hot plate power point in kitchen area	No,s	1						1
45		<b>Sub Total</b>								4

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48	1.18	Providing and fixing of a Data outlet plate mounted outlet unit (RJ-45) with moulded cover plate in recessed zinc chromate passivated MS box complete as directions of Engineer-in-charge and as required for Data system.	nos				
		SCREEN TV1 NEAR ELECTRICAL BACKE WALL SIDE C2	No.5	2			
		FDS PREMIUM LOUNGE C2	No.9	2			
		SCREEN TV2 NEAR ELECTRICAL BACKE WALL SIDE C2	No.5	2			
		FDS PREMIUM LOUNGE C2	No.5	2			
		FDS PREMIUM LOUNGE C2	No.5	2			
		LED SCREEN TV3 ADMIN AREA C2	No.5	2			
		RECEPTIN FDS C2	No.5	2			
		MERCHANDISE	No.5	2			
		<b>Sub Total</b>	No.5	2			10
47	1.19	Supplying, laying, testing and commissioning of 4-pair Non-plenum Enhanced Cat 6 unshielded twisted pair computer cable with 24 AWG solid copper conductors in surface/concealed conduit/raceways/modular furniture , complete as directions of Engineer-in-charge and as required.	Mtrs				
		<b>NVR TO DATA/VOICE CAT-6 WIRE LAYING</b>					
		NETWORK RACK TO D1	1	27			27
		D2.V1	2	27			54
		D3	1	25.5			25.5
		D4	1	24.5			24.5
		D5.V2	2	23.5			47
		D6.	1	20			20
		D7	1	19.1			19.1
		D8	1	20.9			20.9
		D9	1	21.8			21.8
		D10.V3	2	20.5			41
		D11	1	10			10
		D12.V4	2	11			22
		D13.V5	2	10			20
		D14.V6	2	17.5			35
		<b>Sub Total</b>					387.8
48	1.20	Supplying, Installation, testing and commissioning of 6U Networking Rack with all accessories and complete as required	nos	1			1
		<b>Sub Total</b>	nos	1			1
49	1.21	Supplying, Installation, testing and commissioning of Occupancy Sensor for light control with all accessories and complete as directions of Engineer-in-charge and as required.	nos	1			1
		<b>Sub Total</b>	nos	1			1
50	1.22	Supplying and drawing wiring with single core stranded copper conductor PVC insulated 1100 volt grade LSZH PVC insulated wires in existing conduit systems including the cost of running copper conductor LSZH PVC insulated loop earthing wire complete as directions of Engineer in-charge and as required as below	Mtrs				
		2 x 1.5 sq mm with 1 x 1.5 sq mm earth wire					

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11/7/24.

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add 0.15 N6 = 4+5+3.94 x 2 = 33.9

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11/7/24.

62	a)	2 x 2.5 sq mm with 1 x 2.5 sq mm earth wire	Mtrs					
53	b)	2 x 4 sq mm with 1 x 4.0 sq mm earth wire	Mtrs					
54	c)	2 x 6 sq mm with 1 x 6.0 sq mm earth wire	Mtrs					
55	d)	2 x 10 sq mm with 1 x 10 sq mm earth wire	Mtrs					
56	e)	4 x 2.5 sq mm with 2 x 2.5 sq mm earth wire	Mtrs					
57	f)	4 x 4 sq mm with 2 x 4.0 sq mm earth wire	Mtrs					
58	g)	4 x 6 sq mm with 2 x 6.0 sq mm earth wire	Mtrs					
59	h)	4 x 10 sq mm with 2 x 10 sq mm earth wire	Mtrs					
60	i)	4 x 16 sq mm with 2 x 16 sq mm earth wire	Mtrs					
61	j)	4 x 25 sq mm with 2 x 25 sq mm earth wire	Mtrs					
62	1.23	Supplying and drawing recessed/surface 15 embossed GI conduiting system including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for recessed conduiting complete as directions of Engineer-in-charge and as required as below.	Mtrs					
63	a)	<b>25 mm 16 SWG</b> <b>under floor 25mm conduit used power Premium lounge(19 pax)</b> <b>area side</b>	Mtrs					
		junction box1 to box2	Mtrs	0.23		0.23		
		junction box2 to box3	Mtrs	0.23		0.23		
		junction box3 to box4	Mtrs	2.48	2 ✓	2.48		
		junction box4 to box5	Mtrs	2.42		2.42		
		junction box5 to box6	Mtrs	2.32		2.32		
		junction box6 to box7	Mtrs	0.23		0.23		
		junction box7 to box8	Mtrs	0.23		0.23		
		junction box8 to box9	Mtrs	2.48	1.9 ✓	2.48		
		junction box9 to box10	Mtrs	2.42	2.3 ✓	2.42		
		junction box10 to box11	Mtrs	2.32		2.32		
		<b>Executive Lounge(28 Pax) area side</b>	Mtrs					
		junction box1 to box2	Mtrs	2		2		
		junction box2 to box3	Mtrs	2		2		
		junction box3 to box4	Mtrs	0.9		0.9		
		junction box4 to box5	Mtrs	0.6		0.6		
		junction box5 to box6	Mtrs	2		2		
		junction box6 to box7	Mtrs	2		2		
		junction box7 to box8	Mtrs	0.9		0.9		
		junction box8 to box9	Mtrs	2.7		2.7		
		junction box9 to box9	Mtrs	4.7	4.3 ✓	4.7		
		<b>Premium Lounge(19 Pax) area side</b>	Mtrs					
		junction box1 to box2	Mtrs	1.3		1.3		
		junction box2 to box3	Mtrs	2.35	2.1 ✓	2.35		
		junction box3 to box4	Mtrs	2.5	2.3 ✓	2.5		
		junction box4 to box5	Mtrs	0.85		0.85		
		<b>Sub Total</b>				<b>25.3856</b>		
64	b)	32 mm 14 SWG	Mtrs					
65	c)	40 mm 14 SWG	Mtrs					
66	d)	50 mm 14 SWG	Mtrs					
67	1.24	Supply and fixing GI flexible conduit including all fittings complete as required as below.	Mtrs					

ITEM NO. 1 (EQUIPMENT)

Drawing.

NO R/O 9,604.00

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		L49					
		L50					
		L51		Mtrs	1.6		1.6
		L52		Mtrs	1.6		1.6
		L53		Mtrs	1.6		1.6
		L54		Mtrs	1.6		1.6
		L55		Mtrs	1.6		1.6
		<b>Sub Total</b>		Mtrs	1.6		1.6
70	c)	32 mm 14 SWG					88
71	d)	40 mm 14 SWG		Mtrs			
72	e)	50 mm 14 SWG		Mtrs			
73				Mtrs			
74		<b>TOTAL SUB-HEAD I carried over to Summary</b>					
75							
76	<b>B</b>	<b>SUB HEAD-II- CABLES &amp; RACEWAYS</b>					
77	1	Supplying, laying, connecting ,terminating on both side testing & commissioning of following size of 1.1 kv grade single/multicore aluminium conductor XLPE insulated and PVC sheathed armoured cable as per IS: 7098:1988 (Part-I) with upto date amendments.					
78	a)	3.5 core 50 Sq mm		Mtrs			
79	2	Cable end termination of the following XLPE insulated and PVC sheathed aluminium conductor cable 1100 Volt grade including cost of crimping heavy duty copper lugs,nickel plated brass double compression glands,insulation tape and all requisite material for completion of termination complete as required and as below					
80	a)	3.5 core 50 Sq mm		Nos			
81	3	Supplying, laying, connecting ,terminating on both side testing & commissioning of following size of 1.1 kv grade single/multicore copper conductor XLPE insulated and PVC sheathed armoured cable as per IS: 7098:1988 (Part-I) with upto date amendments.					
82	a)	4 core 4 Sq mm		Mtrs			
		LT PANEL TO LDB $4+2+1.7+0.8+2$		Mtrs	10.5		10.5
		LT PANEL TO TABLE TOP HOT PLATE $3.5+1.7+2.5$		Mtrs	7.7		7.7
		LT TO 1.5 HP DOL STARTER $4+1.7+1.2+8$		Mtrs	25.7		25.7
		STARTER TO SCRUBBER MOTOR $5$		Mtrs	5		5
		LT TO 0.75KW DOL STAR $4+1.7+1.2+8$		Mtrs	25.7		25.7
		Remar to maker $5$		Mtrs	5		5
		<b>Sub Total</b>		Mtrs			79.8
83	b	4 core 6 Sq mm		Mtrs			
		LT TO COMBI OVEN $3+0.5+3.5+2.5$		Mtrs	9.5		9.5
		LT TO DISH WASHER $2.5+4.5+1.7$		Mtrs	9.7		9.7
		LT TO 4 ZNE HOT PLATE $4+2+2.2+0.8+2$		Mtrs	11		11
		LT TO UPS INPUT $3.5+1.7+1.5+1.4$		Mtrs	8.1		8.1
		INPUT TO UPS $8$		Mtrs	3.8		3.8
		UPS TO OUT PUT $6$		Mtrs	3.8		3.8
		OUT PUT TO UPS DB $1.5$		Mtrs	1.5		1.5
		<b>Sub Total</b>					45.8
	c	4 core 10 Sq mm		Mtrs			

Irfan  
11/10/24

Irfan  
11/7/24





116	2	Design, Manufacture, Supply, delivery and coordination for Installation of the following front operated modular compartmentalised construction cubicle type, front access, dead back, 2mm thick steel enclosed free standing on leg at 400mm above from FFL / wall mounted, dust and vermin proof, switchboard with IP67/Specified protection with hinged and lockable doors duly powder coated complete with interconnections, tinned copper crimping lugs, bonding to earth and painting, suitable for use at 415 volts, 3 phase 4 wire 50 Hertz system, and to withstand a symmetrical fault level of 25 kA							
117		All Switchboards shall have provision for entry of cables from the top or bottom as required.							
118									
119		All kA values indicated shall be Ics breaking capacity.							
120		All MCCB above 250 amp shall have variable settings.							
121		The cost shall include providing and fixing of 75 x 50 x 6 mm channels for switchboard support.							
122		All MCCB shall have rotary handles & extension terminal, phase barrier on both sides as required at site.							
123		All metering panel shall be extendable type with cable alley.							
124		GA drawings shall be got approved from Owners/ Architects/ Consultants before fabrication.							
125		Note:- The Manufacturer/Supplier shall supervise the installation, testing and commissioning of the cubicle panels by the electrical contractor							
126									
127	<b>A</b>	<b>INCOMING - In Kitchen</b>							
128		1 no 125 A 4POLE MCCB							
129									
130		<b>INDICATING PANEL</b>							
131									
132		The incomers shall have the following indicating panel							
133	a)	3 nos Cast resin current transformers of 125/5 ratio Class 1.0 for metering							
134	b)	1 no Multi function meter							
135	c)	1 set of three White phase indicating lamps							
136	d)	Red / Green ON/OFF indicator (LED type)							
137									
138		<b>BUSBAR</b>							
139		Electrolytic high conductivity aluminium TPN busbars rated at 160 amps suitable to with stand symmetrical fault level of 25kA at 415 volts. The neutral busbar is to be of 100% capacity.							
140									
141		<b>OUTGOING UNITS</b>							
142		1 nos 63 amp 4P 10 kA MCB with thermal magnetic protective releases							
143		1 nos 40 amp 4P 10 kA MCB with thermal magnetic protective releases							
144		8 nos 32 amp 4P 10 kA MCB with thermal magnetic protective releases							
145		3 nos 25 amp 4P 10 kA MCB with thermal magnetic protective releases							

Standard in accordance

Quoted price shall be inclusive

		1 nos 32 amp DP 10 kA MCB with thermal magnetic protective releases							
		The Switchboard shall be complete with all interconnections, risers, internal wiring, labels etc complete as required							
		<b>Sub Total</b>							
148			nos	1					1
149		<b>UPS 5KVA</b>							1
150	3	Supply, installation, testing and commissioning of 5kVA UPS system comprising of online units with a battery backup of 30 minutes duration for full load and with all standards fittings, accessories, protection, instruments, indications and controls including but not restricted to transformer, rectifier, inverter, SMF battery with float cum boost battery charger, static bypass switch, maintenance bypass, interconnections etc. The UPS shall be suitable for single phase input and output supply of 230V. The UPS shall have 2 body earthing connection which shall be looped with existing earthing system.	nos	1					1
		<b>Sub Total</b>							1
151	4	Supplying and laying of the following earthing strip on cable tray/ wall clamped to wall with suitable clamps saddles and fixing bolts/soldering /riveting in ground including the cost of digging and back filling as required and complete as required to comply with IS 3043:1987. All joints shall be tinned.							1
152	a)	32 mm x 6 mm GI strip	Mtrs						
153	b)	25 mm x 3 mm GI strip	Mtrs						
154	c)	6 SWG GI Wire	Mtrs						
155	d)	8 SWG GI Wire	Mtrs						
		ALL DB,s Body earthing	Mtrs	1	25	22			25
		<b>Sub Total</b>							25
156	e)	4 Sqmm bare, tinned-copper stranded conductor	Mtrs						
157		<b>TOTAL SUB-HEAD III carried over to Summary</b>							
158									
159	<b>D</b>	<b>SUB HEAD IV - FIRE DETECTION &amp; PA SYSTEM</b>							
160									
161		<b>Fire Detection System</b>							
162	1	Supply, installation, testing and commissioning of 1 Loop wall recess mounting microprocessor based networkable analogue addressable Fire Control Panel having a Fire Alarm Capability of 100/125/150 detectors/devices per loop with each loops length being restricted to 80% of manufacturer specified maximum loop length). The Fire control panel shall have 100% hot redundancy for CPU, load etc. It shall be expandable by minimum 1 additional loops. The operating panel shall have minimum 80 character LCD display, 4 access levels, 1000 events historical logging, flash E-PROM, 240 volts ac power supply, automatic battery charger, 24V sealed lead-acid battery suitable operating the system for 24 hours in emergency condition. The Panel shall be Integrated with the PA System and with suitable power amplifiers for the hooter/strobes.							

DP  
25/2/24

stand required - DP  
25/2

22  
DP  
11/7/24



The Panel shall be Integrated with the BMS System and shall include cost of supply of any additional modules, software and interfaces as required for the same and as required by the Client. The Panel shall provide either or all BACNET/RS485/ LON/MODBUS protocols as required. The panel shall be complete as per specifications and as required.

Admin name  
ITF

164	a)	1 Loop							
		<b>Sub Total</b>	nos	1					1
165	2	Supply, installation, testing and commissioning of plug-in type Intelligent analogue addressable multi criteria photo electric cum Smoke detectors including the cost of base plate, 75 mm dia M.S. outlet box for fixing of the detector base, mounting accessories etc. complete as per specifications and as required	nos						
		<b>SMOKE DETECTORS BELLOW &amp; ABOVE</b>							
		SD1	No,s	1					1
		SD2	No,s	1					1
		SD3	No,s	1					1
		SD4	No,s	1					1
		SD5	No,s	1					1
		SD6	No,s	1					1
		SD7	No,s	1					1
		SD8	No,s	1					1
		SD9	No,s	1					1
		SD10	No,s	1					1
		SD11	No,s	1					1
		SD12	No,s	1					1
		SD13	No,s	1					1
		SD14	No,s	1					1
		SD15	No,s	1					1
		SD16	No,s	1					1
		SD17	No,s	1					1
		SD18	No,s	1					1
		SD19	No,s	1					1
		SD20	No,s	1					1
		SD21	No,s	1					1
		SD22	No,s	1					1
		SD23	No,s	1					1
		SD24	No,s	1					1
		SD25	No,s	1					1
		<b>Sub Total</b>							25
166	3	Supply, installation, testing and commissioning of plug-in type Intelligent analogue addressable rate of rise cum fixed temperature Heat detectors including the cost of base plate, 75 mm dia M.S. outlet box for fixing of the detector base, mounting accessories etc. complete as per specifications and as required	nos						
		Kitchen area Heat detector	no,s	2					2
		<b>Sub Total</b>							2

ITF  
 25/2

ITF  
 25/2

169	4	Supply, installation, testing and commissioning of Addressable type fault for Isolating shorted, de-wired and loose circuits between two successive fault Isolators with automatic resetting arrangement (base Model)	nos					
	5	Supply, installation, testing and commissioning of Addressable type Response Indicator.	nos					
		<b>Sub Total</b>	nos	13				13
169	6	Supply, installation, testing and commissioning of Intelligent analogue addressable Control Modules including the cost of 75 mm dia MS outlet box for fixing of the module, mounting accessories complete as per specifications and as required	nos	3				3
		<b>Sub Total</b>						3
170	7	Supply, installation, testing and commissioning of Intelligent analogue addressable dry contact Monitor Modules including the cost of 75 mm dia MS outlet box for fixing of the module, mounting accessories complete as per specifications and as required	nos					
171	8	Supply, installation, testing and commissioning of recess/surface mounting dust and vermin proof Intelligent addressable analogue Manual Pull stations including cost of all required modules, mounting accessories etc including the cost of M.S. outlet box for fixing of the station, mounting accessories etc. complete as per specifications and as required.	nos	1				1
		<b>Sub Total</b>						1
172	9	Supply, installation, testing and commissioning of high intensity hooters cum Strobe Lights with 110 cd. The strobes shall be synchronized for better evacuation.	nos	1				1
		<b>Sub Total</b>						1
173	10	Supply, laying, testing and commissioning of 2 core 1.5 sqmm copper conductor fire survival cable 1100 volt wires in FRLS PVC embossed black enameled 25mm dia recessed and/or surface conducting system including cost of providing saddles etc for surface conducting and/or cost of cutting and filling chases for recessed conducting as required and including the cost of crimped termination's complete as required. (For FACP & PA system)	Mtrs					
		FACP TO SD1	Mtrs	7.3				7.3
		SD1 TO SD2	Mtrs	3.2				3.2
		RI SD2	Mtrs	2.1				2.1
		SD2 TO SD3	Mtrs	6				6
		SD3 TO SD4	Mtrs	2.6				2.6
		RI SD4	Mtrs	2.1				2.1
		SD4 TO SD5	Mtrs	9.5				9.5
		SD5 TO SD6	Mtrs	2.4				2.4
		RI SD6	Mtrs	2.1				2.1
		SD6 TO SD7	Mtrs	5.6				5.6
		SD7 TO SD8	Mtr	2.8				2.8
		RI SD8	Mtrs	2.1				2.1

All snook cables for base and ceiling chases

11/7/24

T. J. Pan

T. J. Pan

T. J. Pan



supplying and fixing heavy gauge ISI embossed black enameled FRLSH PVC recessed and/or surface conduits including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for recessed conduiting complete as per specifications, as required and as below

**Public Address system**

Supply, installation, testing and commissioning of recess/ surface mounting 2W CEILING SPEAKER, metal grille, dia 150mm and Spring clamps suitable for broadcast of speech and alarm siren including cost of supplying all mounting accessories complete as required

SP1	nos	1						
SP2	No.S	1						
SP3	No.S	1						
SP4	No.S	1						
SP5	No.S	1						
SP6	No.S	1						
SP7	No.S	1						
SP8	No.S	1						
SP9	No.S	1						
SP10	No.S	1						
SP11	No.S	1						
SP12	No.S	1						
SP13	No.S	1						
<b>Sub Total</b>								13

Supply, installation, testing and commissioning of Wall surface mounting 2W CEILING SPEAKER with 6W/3W options suitable for broadcast of speech and alarm siren including cost of supplying all mounting accessories complete as required

<b>Sub Total</b>								1
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**Digital PA System**

Supply, installation, testing and commissioning of MS Amplifier Rack Assembly with 30 minutes power backup including 1 no. CD player unit, 1 nos 300 W POWER AMPLIFIER, connectors, internal wiring, interconnection etc capable of voice operated priority complete as required. (PA System fully integrated type with Fire Alarm System with facility for automatic override of music for emergency announcements)

180	3	nos	1					
<b>Sub Total</b>								1

Supply, installation, testing and commissioning of CONTROL PANEL with single zone selection, ascending 4 tone chime, emergency microphone, expandable upto 5 zones using expansion control panel complete as required

181	4	nos	1					
<b>Sub Total</b>								1

Supply, installation, testing and commissioning of Wireless lapal microphone DB technology complete as required

182	5	nos	1					
<b>Sub Total</b>								1

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		PBD-1 TO Square Table 2No.s switch & socket 6A							
		PBD-1 TO Square table R6							
		PBD-1 TO Square table R7							
		PBD-1 TO Square table Y5							
		PBD-1 TO Square table Y6							
		PBD-1 TO Square table B5							
		PBD-1 TO Square table B6							
		<b>Sub Total</b>							
		Supply & wiring of general power point with 2X4+2.5 Sq.mm PVC insulated multistranded copper conductor cable (FRLHS) in surface/recess MS/PVC conduit including cutting the chases in wall & making good the same including providing & fixing of M.S. Switch & o modular range 2No.s 6Amp switch with 3 pin 6Amp socket, modular cover plate, etc. complete as required. (Secondary loop point)Supply of MS/PVC conduit included in this item.							
236		<b>SECONDARY LOOP POINT</b>							
238		LOOP TO Square table R6							
239		LOOP TO Square table R7							
240		LOOP TO Square table Y5							
241		LOOP TO Square table Y6							
242		LOOP TO Square table B5							
243		LOOP TO Square table B6							
245		<b>Sub Total</b>							
247	C	Supplying and fixing heavy gauge ISI embossed black enameled FRLSH GI recessed and/or surface conduits including cost of providing saddles etc for surface conducting and/or cost of cutting and filling chases for recessed conducting complete as per specifications, as required and as below.							
248	1	25 mm Dia Ms CONDUIT	Mtrs						
249		<b>PA SYSTEM CONDUIT</b>	Mtrs						
250		AMPLIFIER TO SP1	Mtrs	5.5					
251		SP1 TO SP2	Mtrs	5.4					
252		SP1 TO SP3	Mtrs	2.5					
253		SP1 TO SP4	Mtrs	4.9					
254		SP1 TO SP5	Mtrs	8.4					
255		SP1 TO SP6	Mtrs	6.5					
258		SP1 TO SP7	Mtrs	5.6					
257		SP1 TO SP8	Mtrs	1.3					
258		SP1 TO SP9	Mtrs	2.8					
259		SP1 TO SP10	Mtrs	5.9					
260		SP1 TO SP11	Mtrs	8.8					
261		SP1 TO SP12	Mtrs	6.8					
262		SP1 TO SP13	Mtrs	3.6					
263			Mtrs						
264		<b>NVR TO DATA/VOICE CONDUIT</b>	Mtrs						
265		NETWORK RACK TO D1	Mtrs	25					
266		D2.V1	Mtrs	25					

11/7/24

11/7/24

284	D	SUPRINST OF GI EARTH BUS 50X6X300MM Electrical room	No.s	1	1	1
283		Sub Total				326.8
281		C11, C12	Mtrs	18.6	18.6	18.6
280		C4, C5, C7	Mtrs	15.4	15.4	15.4
279		C3, C8	Mtrs	22.4	22.4	22.4
278		C1, C6	Mtrs	17.9	17.9	17.9
277		CCTV WIRING CONDUIT	Mtrs			
276		D13, V5	Mtrs	18.5	13	18.5
275		D11, D12, V4	Mtrs	10	10	10
274		D10, V3	Mtrs	18.8	18.8	18.8
273		D9, D8	Mtrs	18	18	18
272		D6, D7	Mtrs	21.5	20	21.5
271		D5, V2	Mtrs	22.5	20	22.5
270		D4	Mtrs	17.5	17.5	17.5
269		D3	Mtrs			

- ① 16P0E
- ② 5FF
- ③ Modulo, conv story Monitor
- ④ Energy meter.

No.s 1  
No.s 1  
No. 1+1  
No.s 1

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