

Electrical Checked MB

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Service Code	Description	Unit	No,s	L	B	H	Total
MEASUREMENTS							
Part I	ELECTRICAL						
A	SUB HEAD I - WIRING						
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					
	LDB (LIGHT DB)						
	PWR LAY, 2x2.5+1.5sqmm Primary ckt						
	LDB-R1 To L1	No,s	1				1
	LDB-R2 To L1	No,s	1				1
	LDB-R3 To L1	No,s	1				1
	LDB-Y1 To L1	No,s	1				1
	LDB-Y2 To L1	No,s	1				1
	LDB-Y3 To L1	No,s	1				1
	LDB-B1 To L1	No,s	1				1
	LDB-B2 To L1	No,s	1				1
	LDB-B3 To L1	No,s	1				1
	LDB-B4 To L1	No,s	1				1
	Sub Total						10
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 provided in this item.)	nos					
	LDB-R4 To Admin area Sensor light	No,s	1				1
	LDB-Y4 To Admin Fixture light	No,s	1				1
	Sub Total						2

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	nos		
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 15 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)	
	1	EDB(INDICATE EMERGENCY LIGHT DB)	
	1	EDB-C1 To EL1	
	1	EDB-C2 To EL1	
	1	EDB-C3 TO EL1	
	3	Sub Total	
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 15 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)	
		LDB-R1 Secondary loop point	
	1	Primary L1 TO Secondary L1	
	1	L1 TO L2	
	1	L2 TO L3	
	1	L3 TO L4	
	1	L4 TO L5	
	5	LDB-R2 Secondary loop point	
	1	Primary L1 TO Secondary L1	
	1	L1 TO L2	
	1	L2 TO L3	
	1	L3 TO L4	
	1	L4 TO L5 LED Strip	
	5	LDB-R3 Secondary loop point LED Strip	
	1	Primary L1 TO Secondary L1	
	1	L1 TO L2	
	1	L2 TO L3	
	1	L3 TO L4	
	1	L4 TO L5	
	5	LDB-Y1 Secondary loop point	
	1	Primary L1 TO Secondary L1	
	1	L1 TO L2	
	1	L2 TO L3	
	1	L3 TO L4	
	1	L4 TO L5	
	5	LDB-Y1 Secondary loop point	
	1	Primary L1 TO Secondary L1	
	1	L1 TO L2	
	1	L2 TO L3	
	1	L3 TO L4	
	1	L4 TO L5	

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		No,s							
	Primary EL1 TO Secondary EL1	1							
	E.L1 TO E.L2	No,s	1						
	E.L2 TO E.L3	No,s	1						
		No,s	1						
									3
	EDB-C3 Secondary loop point								
	Primary EL1 TO Secondary EL1	No,s	1						
	E.L1 TO E.L2	No,s	1						
	E.L2 TO E.L3	No,s	1						
	E.L3 TO E.L4	No,s	1						
	E.L4 TO E.L5	No,s	1						
	E.L5 TO E.L6	No,s	1						
		No,s	1						
	Sub Total								6
									12
1.6	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 conducting 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.	nos							
	PDB-Y4 To Premium Lounge side Screen Tv 1 power point	nos	1						
	PDB-B8 To Premium Lounge side Screen Tv 2 power point	nos	1						
	PDB-Y7 To Admin side LED Screen TV 3 Power point	nos	1						
	PDB-B4 To INDIA MAP ARTWORK SIDE Power point	nos	1						
	PDB-R5 To NEAR MERCHANDISE DISPLAY	nos	1						
	EDB-C9 To NEAR FACP UPS POWER	nos	1						
	EDB-C10 To FOR WI-FI UPS POWER	nos	1						
	Sub Total								7
1.7	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.	nos							
	Secondary loop point								
	Premium Lounge side Screen Tv 1 power point To FDS	nos	2						
	Premium Lounge side Screen Tv 2 power point To FDS	nos	1						
	Admin side LED Screen TV 3 Power point To SBI	nos	1						

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No.	Description	No. S						
	PDB-Y8 SB1 RAW POWER FDS NEAR DECK CHILLER SIDE	1						
	PDB-B7 ADMIN SCREEN TV SIDE	1						
	PDB-Y7 SB1 LED TV	1						
	PDB-R8 SB1 NEAR DECK CHILLER	1						
	PDB-Y11 FDS	1						
	PDB-B11 SB1 NEAR FDS	1						
	Sub Total	12						
1.10	Supply, Installation, Testing and commissioning 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						
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 15 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	1						
	PDB1 To B10 NEAR FDS	1						
	Sub Total	2						
1.12	Wiring for 25 amp SPN isolator for Geyser with 4.0 sq. mm LSZH PVC insulated stranded/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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	Sub Total	No,s	1	1
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 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.		
	Electrical Panel to Scrubber Isolater HVAC Fan	No,s	1	1
	Electrical Panel to Scrubber Isolater	No,s	1	1
	Sub Total			2
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 conduiting 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.		
	KDB TO POWER POINT	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 Convever/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
	KDB-B2 To Induction power point	No,s	1	1
	KDB-B3 To Induction power point	No,s	1	1
	KDB-B4 To Induction power point	No,s	1	1
	KDB-B5 To Induction power point	No,s	1	1
	KDB-B6 To Saup Turreh power point	No,s	1	1



2	<p>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 41.5 volts, 3 phase 4 wire 50 Hertz system, and to withstand a symmetrical fault level of 25.1kA</p> <p>All Switchboards shall have provision for entry of cables from the top or bottom as required.</p> <p>All kA values indicated shall be Ics breaking capacity.</p> <p>All MCCB above 250 amp shall have variable settings.</p> <p>The cost shall include providing and fixing of 75 x 50 x 6 mm channels for switchboard support.</p> <p>All MCCB shall have rotary handles & extension terminal, phase barrier on both sides as required at site.</p> <p>All metering panel shall be extendable type with cable alley.</p> <p>GA drawings shall be got approved from Owners/ Architects/ Consultants before fabrication.</p> <p>Note:- The Manufacturer/Supplier shall supervise the installation, testing and commissioning of the cubicle panels by the electrical contractor</p>		
A	<p>INCOMING - In Kitchen 1 no 125 A 4POLE MCCB</p>		
	<p>INDICATING PANEL</p>		
a)	<p>The incomers shall have the following indicating panel 3 nos Cast resin current transformers of 125/5 ratio Class 1.0 for metering</p>		
b)	<p>1 no Multi function meter</p>		
c)	<p>1 set of three White phase indicating lamps</p>		
d)	<p>Red / Green ON/OFF indicator (LED type)</p>		
	<p>BUSBAR</p>		
	<p>Electrolytic high conductivity aluminium TPN busbars rated at 160 amps suitable to with stand symmetrical fault level of 25kA at 41.5 volts. The neutral busbar is to be of 100% capacity.</p>		
	<p>OUTGOING UNITS</p>		
	<p>1 nos 63 amp 4P 10 kA MCB with thermal magnetic protective releases</p>		
	<p>1 nos 40 amp 4P 10 kA MCB with thermal magnetic protective releases</p>		
	<p>8 nos 32 amp 4P 10 kA MCB with thermal magnetic protective releases</p>		
	<p>3 nos 25 amp 4P 10 kA MCB with thermal magnetic protective releases</p>		

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<p>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.</p>	<p>1 Loop Sub Total</p>	<p>nos 1</p>	<p>1</p>																				
<p>2</p> <p>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</p> <p style="text-align: center;">SMOKE DETECTORS BELOW & ABOVE</p> <p>SD1 SD2 SD3 SD4 SD5 SD6 SD7 SD8 SD9 SD10 SD11 SD12 SD13 SD14 SD15 SD16 SD17 SD18 SD19 SD20 SD21 SD22 SD23 SD24 SD25 Sub Total</p>	<p>nos 1</p>	<p>nos 1</p>	<p>1</p>																				
<p>3</p> <p>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</p> <p style="text-align: center;">Kitchen area Heat detector</p> <p>Sub Total</p>	<p>nos 2</p>	<p>nos 2</p>	<p>2</p>																				

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4	Supply, installation, testing and commissioning of Addressable type fault for isolating shorted, dewired 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							
	RI (Response Indicator)	nos	13						
	Sub Total		13						
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						
	Sub Total		3						
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							
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						
	Sub Total		1						
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						
	Sub Total		1						
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 conduiting system including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for recessed conduiting 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	Mtrs		2.8					2.8
	RI SD8	Mtrs		2.1					2.1

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