

Price Comparative Statement

Company Name : LKO INTNL ARPT LTD

Project Name : Finishing work for Toilet & Pantry Work at CIP Lounge at Terminal-03, CCSI Airport, Lucknow

Sr No	Particulars	Sort Text	PO Qty.	Site Qty	Units	Rs	Amount	Remark
A	ELECTRICAL WORKS SUB-HEAD 1 WIRING Wiring for primary light points for Switch controlled points with 2.5 sq. mm LSHF PVC insulated stranded /multi stranded copper conductor 1100 Volt grade wires in IS embossed 25mm dia 16 SWG GI 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 LSHF PVC insulated copper earth wire for loop earthing etc. complete as directions of Engineer-in-charge and as required.	primary light points	30.00	30.00	nos	3,200	36,000	✓
1.1	Wiring for primary light points for DB / Dimmer/ Sensor/ Automation controlled points with 2.5 sq mm LSHF PVC insulated stranded/multi stranded copper conductor 1100 Volt grade wires in IS embossed 25mm dia 16 SWG GI 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 LSHF 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)(Normal)	primary light points	45.00	45.00	nos	3,200	1,44,000	✓
1.2	Wiring for primary light points for DB/ Dimmer/ Sensor/ Automation controlled points with 2.5 sq mm LSHF PVC insulated stranded/multi stranded copper conductor 1100 Volt grade wires in IS embossed 25mm dia 16 SWG GI 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 LSHF 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)	primary light points	11.00	11.00	nos	3,200	35,200	✓
1.3	Wiring for secondary light points with 1.5 sq. mm LSHF PVC insulated stranded/multistranded copper conductor 1100 Volt grade wires in surface/concealed in IS embossed 25mm dia 16 SWG GI 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 1.5 sq. mm LSHF PVC insulated copper earth wire for loop earthing etc. complete as directions of Engineer-in-charge and as required. (Normal)	secondary light points	352.00	352.00	nos	2,100	7,39,200	✓
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1.5	Wiring for secondary light points with 1.5 sq. mm LSHF PVC insulated stranded/multistranded copper conductor 1100 Volt grade wires in surface/concealed in IS embossed 25mm dia 16 SWG GI 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 1.5 sq. mm LSHF PVC insulated copper earth wire for loop earthing etc. complete as directions of Engineer-in-charge and as required. (Emergency)	secondary light points	46.00	46.00	nos	2,100	96,600
1.6	Wiring for 240 volt 6 amp Multistandard single phase and neutral switch socket outlet with 4 sq. mm LSHF PVC insulated stranded/multi stranded copper conductor 1100 Volt grade wires in IS embossed 25mm dia 16 SWG GI surface/concealed conduit including cost of providing circuit wiring with 2.5 sq mm LSHF 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 2.5 sq. mm LSHF PVC insulated copper earth wire conductor wires complete as directions of Engineer-in-charge and as required.	6 amp Multistandard single phase and neutral switch socket	11.00	11.00	nos	3,500	38,500
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 2.5 sq. mm LSHF PVC insulated copper earth wire conductor wires complete as directions of Engineer-in-charge and as required.	looped from an adjacent switch socket	28.00	28.00	nos	3,500	98,000
1.8	Wiring for a multi-pin 240 volt 6-16 amp single phase and neutral universal switch socket outlet with 4.0 sq. mm LSHF PVC insulated stranded copper conductor 1100 Volt grade wires in 25 mm dia GI surface/concealed conduit including the cost of providing circuit wiring with 4.0 sq mm LSHF 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 6-16 amp universal socket outlet with safety shutters and 16 amp 240 volt single pole grid plate mounted switch with moulded cover plate in recessed galvanised box and including earthing of the 3rd pin with 4.0 sq mm 1100 volt grade LSHF PVC insulated stranded copper conductor wires complete as directions of Engineer-in-charge and as required.	16 amp single phase and neutral universal switch socket	46.00	46.00	nos	3,500	1,61,000
1.9	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 6-16 amp shuttered socket outlet and a modular type 16 amp 240 Volt single pole switch in a recessed galvanised boxes with internal wiring and moulded front plates complete as directions of Engineer-in-charge and as required.	Looped from an adjacent switch socket	21.00	21.00	nos	2,500	52,500

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1.10	<p>Supply, Installation, Testing and commissioning of Pop-up Boxes with all standard accessories consisting of following:</p> <p>a) 3 nos 6 amp socket with 1 no. 16A Switch</p> <p>b) 2 nos Data outlets which includes of Data wiring and terminations.</p> <p>Wiring for socket outlet with 4.0 sq. mm LSHF PVC Insulated stranded copper conductor 1100 Volt grade wires in 25 mm dia GI surface/concealed Conduit / Raceways including the cost of providing circuit wiring with 4.0 sq mm LSHF 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 pop up Box on Table/furniture/wall complete as directions of Engineer-in-charge and as required. - Workstations.</p>	3.00	3.00	nos	17,500	52,500
1.11	<p>Supply, Installation, Testing and commissioning of Switch socket on furniture with all standard accessories consisting of following:</p> <p>a) 2 nos 6 amp socket with 1 no. 10A Switch</p> <p>b) 2 nos Data outlets which includes of Data wiring and terminations.</p> <p>Wiring for socket outlet with 2.5 sq. mm LSHF PVC Insulated stranded copper conductor 1100 Volt grade wires in 25 mm dia GI surface/concealed Conduit / Raceways including the cost of providing circuit wiring with 2.5 sq mm LSHF 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 Box set on furniture/wall complete as directions of Engineer-in-charge and as required. - Dining Area.</p>	7.00	7.00	nos	2,500	17,500
1.12	<p>Supply, Installation, Testing and commissioning of Switch socket on furniture with all standard accessories consisting of following:</p> <p>a) 2 nos 6 amp socket with 1 no. 10A Switch</p> <p>b) 1 nos Data outlets which includes of Data wiring and terminations.</p> <p>Wiring for socket outlet with 2.5 sq. mm LSHF PVC Insulated stranded copper conductor 1100 Volt grade wires in 25 mm dia GI surface/concealed Conduit / Raceways including the cost of providing circuit wiring with 2.5 sq mm LSHF 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 Box set on furniture/wall complete as directions of Engineer-in-charge and as required. - Premium Lounge & BAR Area.</p>	17.00	17.00	nos	2,500	42,500
1.13	<p>Wiring for 6 pin 240 volt 16 amp single phase and neutral Universal switch socket outlets with 4.0 sq. mm LSHF PVC Insulated stranded/multi stranded copper conductor 1100 volt grade wires in IS embossed 25mm dia 16 SWG GI 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 LSHF PVC Insulated stranded copper earth wire complete as directions of Engineer-in-charge and as required.</p>	14.00	14.00	Nos.	3,500	49,000

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1.14	Wiring as in item 1.13 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 6-18 amp shuttered socket outlet and a modular type 16 amp 240 Volt single pole switch in a recessed galvanized boxes with internal wiring and moulded front plates complete as directions of Engineer-in-charge and as required.	13.00	13.00	9.1	nos	3,100	40,300
1.15	Wiring for 6 pin 240 volt 25 amp single phase and neutral switch socket outlets with 4.0 sq. mm LSHF PVC insulated stranded/multi stranded copper conductor 1100 volt grade wires in IS embossed 25mm dia 16 SWG GI 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 25 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 LSHF PVC insulated stranded copper earth wire complete as directions of Engineer-in-charge and as required.	1.00	1.00	.7	Nos.	6,500	6,500
1.16	Supplying, fixing, testing & commissioning of 32 A, 240 V, SPN metal clad Industrial type socket outlet (IP-65), with 2 pole and earth, plug top along with 32 A, "C" curve, SP, MCB, in Polycarbonate	12.00	12.00	8.4	Nos.	6,500	78,000
1.17	Supplying fixing, testing & commissioning of 32 A, 415 V, TPN Industrial type socket outlet (IP-65),	3.00	3.00	2.1	Nos.	6,000	18,000
1.18	Supplying fixing, testing & commissioning of 32 A, 415 V, TPN 5 pole Industrial type socket outlet (IP-65), with 4 pole and earth, plug top along with 32 A, "C" curve, MCB, in polycarbonate enclosure,	1.00	1.00	.7	Nos.	6,500	6,500
1.19	Providing and fixing of a Data outlet plate mounted outlet unit (RJ-45) with moulded cover plate in recessed zinc chromate passivated GI box complete as directions of Engineer-in-charge and as required for Data system.	-	-	-	-	-	-
a)	1 No. data outlet	8.00	8.00	5.6	nos	2,500	20,000
b)	2 Nos. data outlet	2.00	2.00	1.4	nos	2,500	5,000
1.2	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.	320.00	1250.00	Mtrs	85	27,200	106250
1.21	Supplying, installation, testing and commissioning of 12U Networking Rack with PDU, switches, jack, patch cords, Ios and all other accessories complete as required for Server, router & network video recorder.	1.00	1.00	.7	nos	35,000	35,000
1.22	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.	11.00	11.00	2.7	nos	3,500	38,500

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1.23	Supplying and drawing wiring with single core stranded copper conductor PVC insulated 1100 volt grade LSHF PVC insulated wires in surface/recessed steel conduit systems including the cost of running copper conductor LSHF PVC insulated loop earthing wire complete as directions of Engineer-in-charge and as required as below.	-	-	-	-	-	-	-
a)	2 x 1.5 sq mm with 1 x 1.5 sq mm earth wire	90.00	90.00	69	Mtrs	150	-	-
b)	2 x 2.5 sq mm with 1 x 2.5 sq mm earth wire	330.00	330.00	231	Mtrs	210	18,900	-
c)	2 x 4 sq mm with 1 x 4.0 sq mm earth wire	90.00	90.00	63	Mtrs	300	99,000	-
d)	2 x 6 sq mm with 1 x 6.0 sq mm earth wire	90.00	90.00	63	Mtrs	320	28,800	-
g)	4 x 4 sq mm with 2 x 4.0 sq mm earth wire	90.00	90.00	63	Mtrs	400	36,000	-
h)	4 x 6 sq mm with 2 x 6.0 sq mm earth wire	50.00	50.00	35	Mtrs	450	22,500	-
i)	4 x 10 sq mm with 2 x 10 sq mm earth wire	-	-	-	Mtrs	600	-	-
j)	4 x 16 sq mm with 2 x 16 sq mm earth wire	-	-	-	Mtrs	650	-	-
1.24	Supplying and drawing recessed/surface IS embossed GI conduiting system including cost of providing saddles etc for surface/recess conduiting and/or cost of cutting and filling chases for recessed conduiting complete as directions of Engineer-in-charge and as required as below.	-	-	-	-	-	-	-
a)	20 mm	110.00	110.00	71	Mtrs	145	15,950	-
b)	25 mm	200.00	200.00	140	Mtrs	165	33,000	-
c)	32 mm	110.00	110.00	77	Mtrs	176	19,360	-
d)	40 mm	110.00	110.00	77	Mtrs	210	23,100	-
e)	50 mm	-	-	-	Mtrs	250	-	-
1.25	Supplying and drawing recessed/surface medium class PVC conduit including cost of providing saddles etc accessories for surface/recess conduiting and/or cost of cutting and filling chases for recessed conduiting complete as directions of Engineer-in-charge and as required as below.	-	-	-	-	-	-	-
a)	20 mm	30.00	30.00	21	Mtrs	65	1,950	-
b)	25 mm	-	-	-	Mtrs	75	-	-
c)	32 mm	-	-	-	Mtrs	90	-	-
d)	40 mm	-	-	-	Mtrs	120	-	-
1.26	Supply and fixing GI flexible conduit including all fittings complete as required as below.	-	-	-	-	-	-	-
a)	20 mm	265.00	265.00	185	Mtrs	154	40,810	-
b)	25 mm	95.00	95.00	65	Mtrs	170	16,150	-
c)	32 mm	-	-	-	Mtrs	210	-	-
d)	40 mm	-	-	-	Mtrs	240	-	-
	TOTAL FOR WIRING							22,53,020
B	SUB-HEAD II CABLES & RACEWAYS							
	Supply and laying cables on Tray / clamped to wall with suitable clamps saddles and fixing bolts/in ground including the cost of digging and back filling with sand and brick protection as required and including testing and commissioning of the following 1100 volt grade armoured XLPE insulated and PVC sheathed copper conductor cable complete as required. The costs shall include for all cables to be provided with a 1D gap and shall be properly clamped with cable clamps and ties. Identification tags shall be provided for all cables and route markers for cables in ground.	-	-	-	-	-	-	-
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a)	3 - 1/2 core 240 Sq mm AL XLPE AR Cable	-	-	-	Mtrs	1,200	-	-

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	b)	3 -1/2 core 95 Sq mm AL XLPE AR Cable	-			Mtrs	750	-	
	c)	3 -1/2 core 70 Sq mm AL XLPE AR Cable	50.00	50.00	35	Mtrs	650	32,500	
	d)	3 -1/2 core 50 Sq mm AL XLPE AR Cable	-			Mtrs	450	-	
	e)	4 core 16 Sq mm CU XLPE AR Cable	30.00	30.00	21	Mtrs	P ₃ 6 ⁰ 2	22,500	1.0/45
	f)	4 core 6 Sq mm CU XLPE AR Cable	-			Mtrs	450	-	
	g)	4 core 4 Sq mm CU XLPE AR Cable	160.00	160.00	120	Mtrs	400	64,000	
	2	Cable end termination of the following XLPE Insulated and PVC sheathed Aluminium conductor cable 1100 Volt grade including cost of crimping heavy duty aluminium lugs, nickel plated brass double compression glands, insulation tape and all requisite material for completion of termination complete as required and as below.							
	a)	3 -1/2 core 240 Sq mm AL XLPE AR Cable	-			Nos	1,200	-	
	b)	3 -1/2 core 95 Sq mm AL XLPE AR Cable	-			Nos	850	-	
	c)	3 -1/2 core 70 Sq mm AL XLPE AR Cable	4.00	4.00	2.8	Nos	2,100	8,400	
	d)	3 -1/2 core 50 Sq mm AL XLPE AR Cable	-			Nos	750	-	
	3	Cable end termination of the following XLPE Insulated and PVC sheathed Aluminium/copper 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.							
	a)	4 core 16 Sq mm CU XLPE AR Cable	2.00	2.00	1.4	Nos	1,500	3,000	
	b)	4 core 6 Sq mm CU XLPE AR Cable	-			Nos	1,000	-	
	c)	4 core 4 Sq mm CU XLPE AR Cable	20.00	20.00	14	Nos	1,200	24,000	
	4	Supply and fixing of perforated sheet steel slotted cable trays with vertical sides on both ends as per approved design and GI angle supports spaced 1000 mm apart throughout the length as specified, including the cost of 1 meter GI rod hangers, hooks, dash fasteners, painting etc. for suspension from ceiling complete as required.							
	a)	300 mm x 50 mm x 50 mm (with 40 x 40 x 6 mm GI angle supports) and with Cover	20.00			Mtrs	1,560	31,200	
	b)	150 mm x 50 mm x 50 mm (with 40 x 40 x 6 mm GI angle supports) and with Cover	20.00			Mtrs	1,150	23,000	
	c)	100 mm x 50 mm x 50 mm (with 40 x 40 x 6 mm GI angle supports) and with Cover	60.00			Mtrs	850	51,000	
	5	GI Raceway & Junction boxes (IP 55) Supply, assembly and laying of under floor trunking made out of minimum 1.6 mm thick pre galvanized sheet with enamel paint finish complete with jointing sleeve, horizontal bends, vertical bends, level adjustment components and closer, vertical elbow, covers, access outlet etc. complete with all other accessories under floor installation including cutting and chasing the floor or on surface, making good the same, placing in position and cleaning from inside complete etc. as required.							
	a)	300 mm x 40 mm (3 compartment - 1 For Power, 1 for Data, 1 blank for separation)	-			Mtrs	2,500	-	
	b)	225 mm x 40 mm (2 compartment - 1 For Power, 1 for Data)	40.00			Mtrs	2,300	92,000	
	c)	150 mm x 40 mm (1 compartment)	10.00			Mtrs	1,250	12,500	
	d)	100 mm x 40 mm (2 compartment - 1 For Power, 1 for Data)	20.00			Mtrs	900	18,000	
	e)	75 mm x 40 mm (1 compartment)	10.00			Mtrs	850	8,500	

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f)	Providing and fixing 350 x 350 x 50 mm deep junction box for Power & Data raceways in floor	-		Nos	2,100	-
g)	Providing and fixing 250 x 250 x 50 mm deep junction box for Power & Data raceways in floor	12.00	X	Nos	1,500	18,000
h)	Providing and fixing 150 x 150 x 50 mm deep junction box for Power & Data raceways in floor	13.00	X	Nos	1,200	15,600
i)	Providing and fixing 100 x 100 x 50 mm deep junction box for Data raceways in floor	-		Nos	900	-
	TOTAL FOR CABLES & RACEWAYS					4,24,200
	C					
	SUB-HEAD III DISTRIBUTION BOARD & ELECTRICAL PANEL					
	Supply, erection, testing and commissioning of the following sheet steel clad wall/recess mounting dust and vermin proof double distribution boards constructed from 1.2mm sheet steel IP 42 construction, finished with rust proof red oxide coating and two coats of paint with hinged gasketed door and housing the following complete with suitably rated PVC insulated lined copper busbars with interconnections and neutral bar assembly, earthing terminals/bar, din bar complete, powder painted including earthing as approved by the Architects/ Engineer in charge. Padlocking facility shall be provided on the door. The DB shall be provided with cable end boxes.					
1	14 WAY SPN DB Incoming: 1-25 amp DP 10 KA MCB, B curve with thermal magnetic protective releases Incoming with 1nos. 25 amp DP 30 mA RCCB in each phase Outgoings: 14 nos 6/10 amps SP 10 KA MCB, B curve with thermal magnetic protective releases out goings. For FLDB 12 WAY TPN DB-1 Incoming: 1-63 amp FP 10 KA MCB, C curve with thermal magnetic protective releases Incoming with 1nos. 63 amp DP 30 mA RCCB in each phase Outgoings: 36 nos 16/20/25/32 amps SP 10 KA MCB, C curve with thermal magnetic protective releases out goings. For PDB 12 WAY TPN DB-2 Incoming: 1-32 amp FP 10 KA MCB, B curve with thermal magnetic protective releases Incoming with 1nos. 32 amp DP 30 mA RCCB in each phase Outgoings: 36 nos 10 amps SP 10 KA MCB, B curve with thermal magnetic protective releases out goings. For LDB	1.00	1.00	nos	38,000	38,000
a)		1.00	0.7	nos	36,000	36,000
b)		1.00	0.7	nos	35,000	35,000
c)		1.00	0.7	nos	35,000	35,000

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1.1	<p>10 WAY TPN DB Supplying & fixing of following double door Emergency Lighting DB's enclosures, with minimum IP 55, UV resistant as per IEC 61439, flame retardant, self extinguishing material for outdoor / harsh environment like resistant to weather influences (humidity, temperature, water sprays). The DB shall include all accessories i.e. earth bar, din bar, neutral bar, tinned copper bus bars, earthing terminal, power painting & cable end box etc. as required. Incoming: 1-32 amp FP 10 KA MCB, C curve with thermal magnetic protective releases Outgoings: 30 nos 10/16/20 amps SP 10 KA MCB, C curve with thermal magnetic protective releases out goings. For EDB (10A MCBs shall be for lighting circuits only)</p>	1.00	1.00	nos	32,000	32,000
1.2	<p>SITC of All VTPN DB's double door and modules, shall be pre assembled with vertical bus bars & minimum IP-55, UV resistant as per IEC 61439, suitable for outdoor/harsh</p>	-	-	-	-	-
a)	<p>12 WAY VTPN DB INCOMER 1 No. 160A, 4 pole MCB (16 KA) with over load, short circuit & earth fault protection OUTGOINGS 36 nos. of 20/25/32A modules for SP/TP MCBs, C curve (10KA) as required (Refer DB schedule). DB as described above For KTB-1</p>	1.00	1.00	nos	35,000	35,000
b)	<p>10 WAY VTPN DB INCOMER 1 No. 160A, 4 pole MCB (16 KA) with over load, short circuit & earth fault protection OUTGOINGS 30 nos. of 20/25/32A modules for SP/TP MCBs, (10KA), C curve as required (Refer DB schedule). DB as described above For KTB-1</p>	1.00	1.00	nos	35,000	35,000
2	<p>Electrical Panel- IN Electrical Room (Floor Mounted) 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 / wall mounted, dust and vermin proof, switchboard with IP42/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</p> <p>All Switchboards shall have provision for entry of cables from the top or bottom as required.</p>	-	-	-	-	-

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	All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The Busbars insulation shall be with heat shrinkable sleeves. SMC/DMC shrouds and busbar supports shall be used. Padlocking facility shall be provided on all outgoing feeders doors and switch handles shall be lockable in OFF position	-	-	-	-
	The cost shall include providing and fixing of 75 x 50 x 6 mm channels for switchboard support.	-	-	-	-
	All MCCB shall have rotary handles & extension terminal, phase barrier on both sides as required at site.	-	-	-	-
	All metering panel shall be extendable type with cable alley.	-	-	-	-
	GA drawings shall be got approved from Owners/ Architects/ Consultants before fabrication.	-	-	-	-
	Note:- The Manufacturer/Supplier shall supervise the installation, testing and commissioning of the cubicle panels by the electrical contractor.	-	-	-	-
	INCOMING	-	-	-	-
	1 No. 250Amps. 4P MCCB 25ka. Icu=Ics with micro processor release having O/L, S/C, earth fault protection equipped with the following:	-	-	-	-
	The incomers shall have the following indicating panel	-	-	-	-
	1 set of phase indication lamps (R, Y, B) with 2A MCB	-	-	-	-
	1 set of ON/OFF TRIP indicating light with 2A MCB	-	-	-	-
a)	Digital Multifunction Meter, accuracy class 1s, with LED/LCD screen of Max Demand Load, I, V, Hz, Active, Reactive Power & Energy; Power factor, % unbalance of current & voltage, with RS 485 / Ethernet port with 3 Nos. cast resin current transformers of dual core CT's of suitable Amp. ratio, 15 VA Class 1.0 m clearing, protection MCCBs as required accessories to complete the system.	-	-	-	-
b)		-	-	-	-
c)		-	-	-	-
	BUSBAR	-	-	-	-
	FP aluminium extensible type main bus bars of minimum of 300 Amp 25ka capacity with heat shrinkable coloured sleeves and I/c DMCS/MC bus bars supports	-	-	-	-
	all required intervals complete.	-	-	-	-
	OUTGOING UNITS	-	-	-	-
	3 Nos. 160A TPN MCCB, 16ka. (Ics=Icu) with O/L, S/C	-	-	-	-
	3 nos 63 amp 4P 10 KA MCB with thermal magnetic protective releases	-	-	-	-
	2 nos 25 amp 4P 10 KA MCB with thermal magnetic protective releases	-	-	-	-
	The Switchboard shall be complete with all interconnections, fuses, internal wiring, labels etc complete as required. (Note: Length of the panel should not increase more than 1600mm, 400mm depth and 2000mm height).	1.00	1.00	nos	1,45,000
	UPS 8KVA	-	0.7	-	-
	Supply, installation, testing and commissioning of 8KVA 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.	1.00	1.00	nos	3,15,000
3	The UPS shall be suitable for three phase 415V input with variation of + 15% and give constant output supply of 415V + 2%.	-	0.7	-	-

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4	Supplying and laying of the following earthing strip on cable tray/ wall clamped to wall with suitable clamps saddles and fixing bolts/soldering as required and complete as required to comply with IS 3043:1987. All joints shall be timed. The body earthing of UPS and Panel shall be looped from the existing earthing system.	-	-	-	-	-	-
a)	25 mm x 3 mm GI strip	50.00	50.00	35	Mtrs	145	7,250
b)	25 mm x 3 mm Copper strip for UPS	20.00	20.00	14	Mtrs	165	3,300
c)	6 SWG GI Wire	120.00	120.00	84	Mtrs	180	21,600
d)	8 SWG GI Wire				Mtrs	180	-
e)	4 sq. mm dia copper wire	100.00	100.00	70	Mtrs	180	18,000
4	Providing and fixing M.V danger notice plate of 200 mm x 150 mm, made mild steel, atleast 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	-	-	-	nos	2,000	-
5	Supplying and fixing of 40A 4P, 415V Isolator in sheet steel enclosure with, connection, testing & commissioning as required.	1.00	1.00	0.7	nos	6,500	6,500
TOTAL FOR DISTRIBUTION BOARD & ELECTRICAL PANEL							
7,27,650							
SUB-HEAD IV FIRE DETECTION & PA SYSTEM							
D	Fire Detection System						
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 and main building fire alarm panel.						
a)	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.	1.00	1.00	0.1	nos	35,000	35,000
2	Supply, installation, testing and commissioning of plug-in type intelligent analogue addressable multi criteria 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.	42.00	42.00	99.4	nos	3,300	1,38,600
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.	3.00	3.00	2.1	nos	3,000	9,000
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)	5.00	5.00	3.5	nos	4,000	20,000

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5	Supply, installation, testing and commissioning of Addressable type Response Indicator. Supply, installation, testing and commissioning of addressable type dust detector including the cost of plate, M.S. outlet box for fixing of the detector base, mounting accessories etc. complete as per specifications and as required.	25.00	25.00	17.5	nos	2,500	62,500
3	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.	4.00	4.00	2.8	nos	3,600	14,400
6	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	4,000	-
7	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.	1.00	1.00	0.7	nos	4,000	4,000
8	Supply, installation, testing and commissioning of high intensity hooters cum Strobe Lights with 110 cd. The strobes shall be synchronized for better evacuation.	1.00	1.00	0.7	nos	3,700	3,700
9	Supply, laying, testing and commissioning of 2 core 1.5 sqmm copper conductor LSHF PVC insulated 1100 volt wires in IS embossed black enameled 25mm dia 16 SWG MS recessed and/or surface conduiting system including cost of providing saddles etc for surface conduiting and/or cost of cutting and filing chases for recessed conduiting as required and including the cost of crimped termination's complete as required. (Smoke detector and speaker)	600.00	600.00	4.20	Mtrs	145	87,000
10	Public Address system Supply, installation, testing and commissioning of recess/ surface mounting 3W 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.	21.00	21.00	14.7	nos	3,000	63,000
1	Supply, installation, testing and commissioning of Wall surface mounting 3W/CEILING SPEAKER with 6W/3W option/suitable for broadcast of speech and alarm siren including cost of supplying all mounting accessories complete as required.	2.00	2.00	1.4	nos	3,500	7,000
2	Supply, installation, testing and commissioning of MS Amplifier Rack Assembly with 30 minutes power backup including 1 no. CD player unit, 1 nos 200 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)	1.00	1.00	0.7	nos	25,000	25,000
3	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.	1.00	1.00	0.7	nos	35,000	35,000
4	Supply, installation, testing and commissioning of Wireless Iepl microphone DB technology complete as required	1.00	1.00	0.7	nos	6,500	6,500
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6	Supply, installation, testing and commissioning of Microphone with table stand	1.00	1.00	0.7	nos	8,600	8,600
TOTAL FOR FIRE DETECTION & PA SYSTEM							5,19,300
E SUB-HEAD V CCTV SYSTEM							
1	Design, Engineering, Supply, Receiving, handling, storage, installation, testing and commissioning of the CLOSED CIRCUIT TELEVISION (CCTV) SURVEILLANCE SYSTEM with IP based indoor type fixed varifocal dome camera for the proposed application with all components, accessories, fixing & mounting accessories etc. as complete as required for the successful operation.	13.00	13.00	9.1	nos	4,500	58,500
2	Supply of Network Video/Disk Recorder -16 channel (Including HDD for minimum recording of 30 days) with minimum 500GB Usable Space with all components, accessories, fixing & mounting accessories etc. as complete as required for the successful operation.	1.00	1.00	0.7	nos	28,000	28,000
3	Supplying, laying, testing and commissioning of 4-pair Non-pierium Enhanced Cat 6 unshielded twisted pair with 24 AWG solid copper conductors in surface/concealed conduit/raceways complete as required	330.00	330.00	231	Mtrs	85	28,050
TOTAL FOR CCTV SYSTEM							1,14,550
A	Total Basic						40,38,720
B	Taxes						7,26,970
C	Price [A+B]						47,65,690

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