

**BILL OF QUANTITY FOR ELECTRICAL WORK FOR INDIAN BANK, BKC BRANCH, BANDRA EAST**

SR.	Description	QTY	UNIT	RATE	AMOUNT
<b>SECTION A - PANEL &amp; DBs</b>					
1	Main Power Panel (MPFF) ref SLD	1	each		
a	1Nos 125A MCCB, 35kA, with all standard accessories as follows.				
	i) Thermal O/L Release Range: .08-1.0Ir				
	ii) Instantaneous magnetic S/C Trip				
	iii) Rotary Operating Handle.				
	iv) Shunt release				
	v) EARTH LEAKAGE RELAY				
b	Indication lamps R,Y,B Cluster LED's set .-1 Nos.				
c	DLM WITH FOLLOWING FEATURES 16 X 4 BACKLITE LC DISPLAY:- V,A,KWH,KVAH,KW,KVA,KVAR,KVARH,PF,MD(ACCURACY CLASS				
d	125A tinned Aluminium Bus Bars 4Pole				
e	63A TPN MCB -3Nos.				
f	40A/63A DP MCB - 3Nos.				
g	40A/32A TPN MCB - 2Nos.				
h	20A/25A/32A DP MCB - 2Nos.				
	The rate shall include all components, MCB, Heavy duty contactor Bus Bars, Wiring & accessories. Panel manufacturer should be CPRI approved. Before panel manufacturing panel GA should be approve from SBI engineer or Respective Electrical consultant				
2	APFC Capacitor Panel Banks : 3 Phase 5Kvar capacitar-2nos, and 10 kvar capacitar-2nos , With Each bank seprate MCB with Heavy duty Contactor and 6 stag APCR Relay. The rate shall include all components, MCB, Heavy duty contactor Bus Bars, Wiring & accessories.	1	Nos		
3	125 Amps MCCB in sheet steel enclosure complete with all mounting accessories above voltage stabiliser with necessary cable jointing adaptor box if reqd.	1	Nos		
4	Supply, Installation, Testing & Commissioning of Distribution Boards complete with MCBs/Isolators/ Bus bars and interconnections.No fabricated DBs shall be allowed.Only DBs of specified makes as per list of materials shall be used .				
a	TPN as follows ( GRD FLOOR/BASEMENT/ATM Incomer 63A TPN MCB- 1No. Outgoing 10A/16A/20A/25A SP MCBs -12 Nos.	1	each		
b	SPN as follows (UPS/RAW) SUB Incomer 25Amp DP ELCB (30mA)-1 Nos. Outgoing 10A/16A SP MCBs -10 Nos	1	each		
c	SPN as follows UTILITY SUB Incomer 40Amp DP ELCB (30mA)-1 Nos. Outgoing 10A/16A SP MCBs -10Nos.	1	each		
d	SPN as follows (UPS INPUTOUTPUT DB) Incomer 63A DP MCB- 1 No. Outgoing 63A DP MCBs -1Nos. Outgoing 32A DP MCBs -1Nos. Outgoing 16A SP MCBs -2Nos.	1	each		

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e	TPN as follows (AC power DB ) Incomer 63A TPN MCB- 1 No. Sub outgoing- 40A RCCB, 100mA - 3Nos. Outgoing 10A/16A/20A/25A SP MCBs -10Nos.	2	each		
4	Supply, installation, testing & commissioning of Powder Coted Metal Fabricated Box enclosure For 40Amp/ 32 Amp TPN MCB Confirming to IP-55 for UPS INPUT. Cost of MCB to be included.	2	Nos		
<b>Total of `Section A`</b>					
<b>SECTION B - CABLE &amp; WIRING</b>					
	All cables in this tender are FR				
1	Supply & Laying of Copper Armoured / Un Armoured XLPE Insulated cables fixed to walls, ceilings, on trays or laid in ready-made trench as follows:				
a	3.5 Core 70 sq. mm. A2XFY (Copper armoured XLPE cable)	15	mtr		
b	4 Core 10 sq. mm. 2YFY (Copper armoured XLPE cable) with bare two nos of 10 SWG CU earth wire	15	mtr		
c	4 Core 6 sq. mm. 2YFY (Copper armoured XLPE cable) with bare two nos of 10 SWG CU earth wire	20	mtr		
d	3 Core 10sq. mm 2YFY cable (Copper armoured XLPE cable)	5	mtr		
e	3 Core 6sq. mm 2YFY cable (Copper armoured XLPE cable)	5	mtr		
f	3 Core 4sq. mm 2YFY cable (Copper armoured XLPE cable)	200	mtr		
g	One no of 25 sqmm FLEXIBLE Copper XLPE insulated leads with PVC FLEXIBLE conduit,	10	mtr		
2	Termination of the above cables with Heavy duty Cu. Lugs & Brass cable glands. All Cable should have Double compression gland.				
a	3.5 Core 70 sq. mm. A2XFY	2	nos		
b	4 Core 10 sq. mm. 2YFY cable	4	nos		
c	4 Core 6 sq. mm. 2YFY cable	6	nos		
d	3Core 10 sq. mm / 6sq.mm 2YFY cable	4	nos		
e	3Core 4sq. mm 2XFYbare	10	nos		
f	One no of 25sqmm FLEXIBLE Copper XLPE insulated leads,	6	nos		

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3	Point wiring through 20/25 mm PVC HMS Conduit with all required accessories with 2 Nos of 1.5 sqmm & 1 no of 2.5 sqmm ( for earth) PVC insulated Copper FR wires with Modular type switches complete with all accessories as detailed in the specifications. The switch boxes shall be flush mounted with partition works or as directed by the architects and shall be done in co-ordination with interior furniture works. <b>The rate shall include circuit wiring from DB to switchboard &amp; from switchboard to switchboard. 2 Nos of 1.5 sqmm &amp; 1 no of 2.5 sqmm ( for earth) PVC insulated Copper FR Conduit shall be fixed on wall / trays or ceiling with spacers &amp; saddles.The wires will be terminated in a separate connector before fixtures.</b>				
a	Primary light points	5	Nos		
b	Secondary light points	10	Nos		
c	Loop point in side the coffer for a distance of 2 Mtr max.with flexible pvc conduit.	10	Nos		
d	Ceiling fan point with Fixed hook as directed by architects and Step type electronic Fan regulators modular type of 120 W.	2	Nos		
<b>Total of `Section B`</b>					
<b>SECTION C - POWER OUTLETS</b>					
1	Supply, Installation , Testing & Commissioning of 20/25A Reyroll Plug-Sockets with 3 Pin Metal Top Housed in powder coated metal board with 20/25A DP MCB The rate shall be inclusive of 2 nos 4 sq.mm & 1 no of 2.5 sqmm ( for earth)PVC insulated copper flexible FR in 20/25 mm PVC Conduit	0	Nos		
2	Supply, Installation , Testing & Commissioning of 20A Reyroll Plug-Sockets with 3 Pin Metal Top Housed in powder coated metal board with 20/25A DP MCB The rate shall be inclusive of 3Cx2.5 sq.mm flexibal cable in 20/25 mm PVC Conduit for strong room lighting control.	0	Nos		
3	Supply, Installation , Testing & Commissioning of Point Wiring for UPS power sockets <b>3 Nos of Universal sockets 6/13A 3pin &amp; 1 No. controlled by 1 nos 16A switch (for UPS Power)</b> with 3 core 2.5 sq.mm Cu conductor PVC insulated , PVC Sheathed ( White Colour ) FR wire in already laid Raceways/Trunking/Conduits for UPS power points.4 Nos of workstations to be looped in one circuit.	10	Nos		
4	Supply, Installation , Testing & Commissioning of Point Wiring for Raw power sockets 1 No. of Universal Type 6 A 3 pin Socket controlled by 1 nos 6A switch (for WORKSTATION Raw Power) with 3 core 2.5 sq.mm Cu conductor PVC insulated , PVC Sheathed ( White Colour ) FRLS wire in already laid Raceways/Trunking/Conduits for UPS power points.4 Nos of workstations to be looped in one circuit.	10	Nos		
5	Supply, Installation , Testing & Commissioning of Point Wiring for ups power sockets 1No. of 6A 5 PIN Socket With 6 A rewirable Fuse Carrier combine in a 3 module box. ( <b>ON UPS Power</b> ).with 3 Nos 2.5 sq.mm. Cu conductor PVC insulated FR wire .The rate shall be inclusive of connecting the switches/sockets & 20/25 mm PVC Conduit. 4 Nos of Point to be looped in one circuit. The rate shall include Power Switch Socket with wiring <b>For Fire /ACCESS Power point</b>	2	Nos		

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6	Supply, Installation , Testing & Commissioning of Point Wiring for 6A 5 pin Power Switch Socket combine with indicator complete with G.I.switch mounting box Raw power sockets with 3 nos 2.5 sq.mm PVC insulated copper flexible FR wire in The rate shall be inclusive of connecting the switches/sockets & 20/25 mm PVC Conduit on .25 Nos of 4 Power Points to be looped in one circuit.	6	Nos		
v	Supply, Installation , Testing & Commissioning of Point Wiring for 6/16A 5 pin Power Switch Socket combine with indicator complete with G.I.switch mounting box Raw power sockets with 3 nos 2.5 sq.mm PVC insulated copper flexible FR wire in The rate shall be inclusive of connecting the switches/sockets & 20/25 mm PVC Conduit on .25 Nos of 4 Power Points to be looped in one circuit. <b>For {Convenience sockets}. Cost of switch &amp; sockets to be included WHITE COLOUR</b>				
a	Primary Point ( DB to the First Point)	3	set		
b	Secondary Loop Points	3	set		
<b>Total Of `Section C`</b>					
<b>SECTION - D(Lighting Fixtures &amp; Fittings)</b>					
1	Supply, Installation, Testing & Commissioning of 2 x 2 (600 x 600mm) 38 Watt LED light. The fitting shall be fixed with chain ,screws etc. The fitting shall be recessed mounted, The rate shall include connection with 3 core 1.5 sqmm. flexible copper cable with Flexible Conduit. The brief specification of Fixture is as under :	0	Nos		
2	Supply, Installation, Testing & Commissioning of 15 Watt LED down light. The fitting shall be fixed with chain ,screws etc. The fitting shall be recessed mounted, The rate shall include connection with 3 core 1.5 sqmm. flexible copper cable with Flexible Conduit. The brief specification of Fixture is as under :	25	Nos		
3	Supplying & fixing 1 x 40 watts 2 ft Miroлта make Tube light fixture with tubes.	5	Nos		
4	Supplying & fixing 1 x 40 watts 4 ft Miroлта make Tube light fixture with tubes.	5	Nos		
5	Supplied and fixed LED Strip light with 10 amps.	50	mtr		
6	Supplied and fixed 10 amps Driver for LED Strip light.	5	nos		
7	supply & Installation of 1400mm. sweep ceiling fan with standard down rod and all accessories complete with interconnection.	3	Nos		
8	supply & Installation of 600mm. sweep wall mounted fan with standard wall bracket and all accessories complete with interconnection.	1	Nos		
9	Supply & Installation of 9" Exahust fan 1200rpm heavy duty.	2	No		
<b>Total of `Section D`</b>					

SR.	Description	QTY	UNIT	RATE	AMOUNT
<b>SECTION - E (Miscellenous Work)</b>					

1	Preparation and commissioning of earthpits with 600x600x3mm thick copper electrode with watering arrangement, chamber, funnel, charcoal salt etc. The electrode shall be connected with 25 mm x 6mm thick Copper Strip and terminated into the chamber with nut bolt arrangement. The rate shall include cost of earthing strip upto the chamber. For BODY Earth	1	Nos		
2	Preparation and commissioning of earthpits with 600x600x3mm thick GI electrode with watering arrangement, chamber, funnel, charcoal salt etc. The electrode shall be connected with 25 mm x 6mm thick GI Strip and terminated into the chamber with nut bolt arrangement. The rate shall include cost of earthing strip upto the chamber. For BODY Earth	1	Nos		
3	Supply and laying of 1Cx 25 sq mm COPPER flexible Pvc cable for earth in GI Conduit Outside the building premises and Road crossing, For road crossing area conduit should be under ground shall be laid to a depth of at least 250mm.	15	mtrs		
4	Supply, installation, testing & commissioning of copper earth bus of size 50 mm x 6mm x 400 mm ( WxBxL) mounted on insulators, in suitable size painted GI box. Bus should have 10 nos of holes with brass nut bolts of suitable size	1	No		

**Total of 'Section E'**

**SECTION - F RACEWAYS & WIRING**

1	Supply and laying Raceways / Conduits ( for under floor trenches / On trays) on existing flooring raceways / conduits shall be fixed to the flooring with clamps for finished levels as per site. The conditions or through partitions with all accessories, bends, pull wire etc. but excluding the floor mounted junction boxes which shall be paid separately. The metal/pvc conduits/raceways shall be earth with copper earthing clips at suitable intervals..The rate shall include <b>Preparation of trenches upto 22" wide by carefully removing the floor tiles &amp; malwa below the tiles for laying Raceways/conduits for power, telephones etc. The depth of the trenches shall be atleast 2 inches from the finished floor level or upto RCC of the slab. The rate shall not include the cost of the Raceways/conduits. The rate shall include the activity of clearing the debris generated from the preparation of trenches. &amp; Filling the same with RCC 1:2:2</b>				
a	100mm x 40mm Aluminium raceways, 2 mm thk.	0	mtr		
b	82mm x 38mm Aluminium raceways, 2 mm thk.	0	mtr		
c	25mm PVC conduits of wall thickness of 1.6 mm	0	mtr		
2	Supplying and fixing 400/450 mm x 400/450 mm x 50mm deep GI finish. The junction boxes shall have knock-outs on all sides suitable for Raceways/conduits. The knock out shall be removed at site as per requirements. The junction boxes shall be laid in trenches for Raceways/conduits as detailed in item No 1. The top cover shall be fixed with counter sunk screws. (for floor trenches)	0	Nos		
3	Supplying and fixing 300/250 mm x 300/250 mm x 50mm deep GI finish. The junction boxes shall have knock-outs on all sides suitable for Raceways/conduits. The knock out shall be removed at site as per requirements. The junction boxes shall be laid in trenches for Raceways/conduits as detailed in item No 1. The top cover shall be fixed with counter sunk screws. (for floor trenches)	0	Nos		

SR.	Description	QTY	UNIT	RATE	AMOUNT
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4	Supplying and fixing 200 mm x 200 mm x50mm deep GI finish. The junction boxes shall have knock-outs on all sides suitable for Raceways/conduits. The knock out shall be removed at site as per requirements. The junction boxes shall be laid in trenches for Raceways/conduits as detailed in item No 1. The top cover shall be fixed with counter sunk screws. (for floor trenches).	0	Nos		
5	Supplying and fixing 150 mm x 150 mm x50mm deep GI finish. The junction boxes shall have knock-outs on all sides suitable for Raceways/conduits. The knock out shall be removed at site as per requirements. The junction boxes shall be laid in trenches for Raceways/conduits as detailed in item No 1. The top cover shall be fixed with counter sunk screws. (for floor trenches).	0	Nos		
6	Supply & Laying of RG 6 Cable in 25/20 mm medium gauge hms pvc conduits on walls, ceiling or through partitions with spacers and saddles as per standard practice. Cost of Conduit & accessories to be considered	15	mtr		
7	Supply & Fixing of (RG 6 )4way Splitter	1	Nos		
8	1 No. of RG 6 socket outlet.	1	set		
<b>TOTAL of `Section - F'</b>					
<b>SECTION- G - TELEPHONE WIRING</b>					
1	Supply, Installation , Testing & Commissioning of telephone point with RJ-11 telephone sockets with shutter Including modular plat with back box and the rate shall be including 2 pair telephone cable wire in already laid Raceways/Trunking/Conduits	10	No		
2	Supply and fixing of 50 Pair telephone MDF consisting of tag blocks in groups of 10 Pair krone, disconnecter type, complete with powder coated metal enclosure, krone tag block mounting arrangement, telephone distribution chart and locking arrangement (for P&T/ EPABX).	1	No		
3	Supplying and fixing Krone tag blocks 10 Pair as above	2	Nos		
4	Supply and laying of 25mm medium gauge PVCconduits as per IS 9537 part III on walls, ceiling or through partitions with spacers and saddles as per standard practice.	20	Mtr		
5	Supply and laying telephone cables 0.5 mm dia electrolytic tinned copper conductors PVC insulated and twisted pair with rip cord, through already laid PVC conduits/ Raceways. The rate shall include terminations at both ends on Tag blocks & ferruling.				
	i) 10 pair - Jelly filled cable	20	mtr		
<b>Total of `Section G'</b>					

SR.	Description	QTY	UNIT	RATE	AMOUNT

SECTION- H - NETWORK WIRING					
1	Supplying and laying of CAT-6 cable make through already laid raceways/conduit from racks to work station as directed (Rate should be inclusive of sleeve of flexible conduit to be utilised at termination end or at entry end from junction box.)	400	mtr		
2	Supply ,installation,testing,commissioning of RJ45 CAT6 IO The rate shall be inclusive of Quad & dual face plate with shutter & Box. termination of the Ios .(Rate should be inclusive of Certified ,TESTING ,commissioning.)	10	No		
3	Supply of 3 feet CAT-6 patch cord	10	No		
4	Supply of 7 feet CAT-6 patch cord	10	No		
5	Supply,insulation,testing & commissioning of Gigabyte CAT6,24 port panel of The rate should be inclusive of termination & testing	1	No		
6	Supply & Installation of 16U Rack Close Rack standard floor standing	1	No		
<b>Total of `Section H'</b>					

SUMMARY					
SR.	Description				AMOUNT (In Rs.)

