	BILL OF QUANTITIES OF ELECTRICAL	SBI M	ADANG	IRI NEW	DELHI
S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE RS	AMOUNT RSs
1	Wiring for light point/ fan point/ wall fan point/ exhaust fan/ light sockets etc. with 1.5 sq.mm. PVC insulated 1100 V Grade copper conductor (FRLS) wires & 1.5 sq.mm. copper earth wire in concealed/ surface using 16 SWG MS conduits, accessories such as bends, tees, saddles, draw boxes, mounting boxes, inner plates, cover plates, ceiling rose etc (whereever required) and chromium plates brass screws/ rowel plug etc. The circuit wiring starting from DB to point control box/ switch box using 2 X 2.5 sq.mm PVC insulated 1100 V grade multi- stranded copper conductor wire & 2.5 sq.mm. PVC insulated earth wire (color code to be used). (Flexible conduit/ elbow not allowed). The conduit to be laid in ceiling with proper clamps/ wall/ floor and flling the chase with cement mortar and finishing the same in original form/ wooden partition/ above false ceiling with proper clamps etc. all complete.				
	(Wherever required as per standard				
	specifications). i) Each circuit shall have independent earth wire.				
	ii) Each point shall be earthed. iii) Circuit wiring is to be included in point wiring				
i	rates. One light points controlled by one 6 amp. Modular switch.	Nos.	18.00		
ii	Two light points controlled by one 6 amp. Modular switch.	Nos.	12.00		
iii	Three light points controlled by one 6 amp. Modular switch.	Nos.	5.00		
iv	Four light points controlled by one 6 amp. Modular switch.	Nos.	4.00		
V	One call bell point with ceiling rose/ 6amp. 3 pin socket controlled by one 6 amp. Push Modular switch. With call bell		1.00		
vi	One wall fan/ ceiling/ exhaust fan point with 6 amp 3-pin socket controlled by one 6 amp. Modular switch. The switch should be at switchboard level.		13.00		
vii	One 5 pin socket controlled by one 6 amp. Modular switch complete assembly includes plate box etc.				
а	Dependent	Nos.	4.00		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE RS	AMOUNT RSs
	Same as serial no 1 but using 2*2.5 + 1*2.5 Sqmm Copper Conductor FRLS wires from DB to first 6A, 5 Pin modular socket controlled by one 6A switch and looped to the nearest second point with same 2*2.5 + 1*2.5 Sqmm copper conductor wires FRLS insulated 1100V grade.Each point to have 2 nos. 6 amps. 5 pin modular type sockets, one 6 amps modular swtich with all accessories, inner/ outer plates, metal box etc. and to be fixed on wooden partitions/ by grouting on wall etc. as per requirement at site. The switch should be fixed above the top of counter with indicator and sockets under the counter (max 3 points per				
а	Primary Point	Nos.	6.00		
	Secondary Point looped	Nos.	8.00		
	POWER POINTS Same as serial no.1, but wiring for 16 Amp, 6-pin sockets by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire with independent 1* 4.0 sq.mm earth wire from D.B. to first point 1 st socket and 1 st to 2 nd , socket with 2*2.5 sq.mm. and 1*2.5 earth wire including providing and fixing of 16 Amp, 6 –pin socket with 16 Amp. Switch. (Modular type switch/ socket/ plate etc. complete assembly) max 2 points per circuit.				
a)	Primary Point	Nos.	7.00		
	Secondary Point	Nos.	4.00		
	Same as serial no.1, but wiring for A/C socket by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*4.0 sq.mm. PVC insulated 1100 V grade copper conductor wire with modular type AC box(tiny trip type) with socket complete in all respects controlled by 25/32 A SP MCB to be provided near indoor unit. The point starts from DB to stabilizer to the point near the indoor unit including top.		6.00		
	Same as serial no.1, but wiring for A/C socket by using 4*6 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*6.0 sq.mm. PVC insulated 1100 V grade copper conductor wire of weather proof type 4 way SPN DB complete in all respects controlled by with 40 Amp (10 KA) MCB to be provided near outdoor		2.00		
	unit. The point starts from DB to the point near the outdoor unit.				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE RS	AMOUNT RSs
a	Wiring with 2x2.5 sq.mm. + 1x2.5 sq.mm. PVC insulated 1100 V grade multi stranded copper conductor wires in 2 mm thick PVC conduit from UPS DB to computer point. Each point to have 3 nos. 6 amps. 5 pin modular type sockets, one 6 amps modular swtich with all accessories, inner/ outer plates, metal box etc. and to be fixed on wooden partitions/ by grouting on wall etc. as per requirement at site. The switch should be fixed above the top of counter with indicator and sockets under the counter b) Same as above but looped from the above 1st point to 2nd , point and 2nd point to 3rd point. (Maximum 3 points in a circuit)				
	Primary Points	Nos.	6.00		
<u> </u>	Secondary Points	Nos.	8.00		
b	Wiring with 2x2.5 sq.mm + 1x2.5 sq.mm PVC insulated 1100 V grade multi stranded copper conductor wires in 2mmthick PVC conduit from UPS DB to computer point. Each point to have 2 nos. 16 amps 5 pin modular type sockets, 2 No's 16 amps modular swtich with all accessories, inner/ outer plates , metal box etc and to be fixed on wooden partitions/ by grouting on wall etc as per requirement at site. The switch should be fixed above the top of counter and sockets under the counter. or as directed by the engineer incharge for the rack supply in server room, PA rack, CCTV, b) Same as above but looped from the above 1st point to 2nd point (Maximum 2 points in a circuit) Note: For e-looby the points should be		1.00		
	Primary Points	Nos.	4.00		
	Secondary Points	Nos.	3.00		
В.	CONDUITING FOR TELEPHONE, COMPUTER & CONDUITING, WIRING FOR T.V. SYSTEM.				
1.0	TELEPHONE SYSTEM				
1.1	Wiring for VOICE from Jack Panel in data rack to computer workstation with Cat-6 voice cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for Cat-6 with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type. This work includes supply and laying of CAT-6 cable in PVC conduits throughout the lenght, from the I/O hub to the point.		13.00		
1.2	Supplying, laying, effecting terminations, testing and commissioning of 0.51 mm dia Cu. Conductor, twisted, colour coded with polythene capor barrier, telephone cables in the existing tray or in conduit including providing &fixing conduit pipe or cable tray as required from building tag block to the floor as required.				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE RS	AMOUNT RSs
a)	Supplying & fixing 20 pair krone tag block with enclosure.	Nos.	1.00		
b)	P/L 20 Pair of PVC insulated PVC sheathed multi core jelly filled armored telephone.	Mtrs.	75.00		
2	COMPUTER NETWORKING				
2.1	Wiring for computer networking from Jack Panel in data rack to computer workstation with Cat-6 computer cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for Cat-6 with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type, This work includes supply and laying of CAT-6 cable in PVC conduits throughout the lenght, from the I/O hub to		20.00		
2.2	Supplying and fixing 9 U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock & key).		1.00		
2.3	Supply, Installation, Testing & Commissioning of 24 port Jack Panel.	Nos.	1.00		
	Supply, Installation, Testing & Commissioning of 16 port Jack Panel.		1.00		
2.5	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord)		20.00		
2.6	Supplying and fixing Patch Cord-1 Meter-	Nos.	20.00		
3.0	Supply and fixing of 1.6 mm thick G.I. Box along with RG 6 T.V Co axial socket with Cover Plate.	Nos.	2.00		
4.0	Supply, drawing, connecting, testing and commissioning of T.V Coaxial cable RG 6 in existing conduit.	RM	70.00		
С.	CABLES, MAINS & SUBMAINS				
1	Supplying all materials and laying/ pulling 1100 volts grade PVC insulated copper conductor wires (FRLS) in MS conduit with all fixing accessories after cutting the floor, wall and the like etc. and replastering the floor level to original. Conduit must be 30 mm below the floor finish level.				
ii	1 X 10 sq mm Cu wire for earthing.	RM	30.00		
iii	$2 \times 6 \text{ sq.mm} + 1 \times 6 \text{ sq.mm}.$	RM	80.00		
iv	4 X 6 sq.mm. + 2 X 6 sq.mm. (LDB)	RM	20.00		
V	4 X 10 sq.mm. + 2 X 6 sq.mm.	RM	5.00		ļ]
L					├ ────┤
vi	Supplying, laying, testing & commissioning of 4 C X 16 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification		15.00		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE RS	AMOUNT RSs
vii	Supplying, laying, testing & commissioning of 4 C X 25 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification (Power DB & Server Room DB).		15.00		
viii	Supplying, laying, testing & commissioning of 4 C X 35 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification (AC DB)		35.00		
ix	Supplying, laying, testing & commissioning of 4 C x 70 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification (Mains).		40.00		
2	Cable Tray and Raceways				
	Supplying and fixing of following size of Perforated pre paited ms Cable Trays with perforation not more than 17.5% in convenient section, joined with connector, suspended from the ceiling with M.S. suspenders including bolts & nuts, paiting suspenders etc as required. Rates				
	shall be included tee, band reducers etc				
a.	shall be included tee, band reducers etc 150x150 x50 2mm thick Cable tray (For Submain Incoming)	RM	10		
a. b.	150x150 x50 2mm thick Cable tray (For Submain Incoming) 200x200 x50 2mm thick Cable tray (For Main and DG)	RM RM	10 5		
	150x150 x50 2mm thick Cable tray (For Submain Incoming) 200x200 x50 2mm thick Cable tray (For Main and DG) Fabricating supplying to site of installation, in floor including chase cutting of floor,leveling, refilling and making good the same 1.6 mm thick G.I raceways of height 40 mm and 2.0 mm thick openable cover, totally enclosed,The two lengths of channels and junction box shall be nut bolted together to make it dust and water proof. complete with all fixing accessories as required.	RM	5		
b. 3 a.	150x150 x50 2mm thick Cable tray (For Submain Incoming) 200x200 x50 2mm thick Cable tray (For Main and DG) Fabricating supplying to site of installation, in floor including chase cutting of floor,leveling, refilling and making good the same 1.6 mm thick G.I raceways of height 40 mm and 2.0 mm thick openable cover, totally enclosed,The two lengths of channels and junction box shall be nut bolted together to make it dust and water proof. complete with all fixing accessories as required. 150 mm (wide) x 40 mm (height)	RM RM	5		
b. 3	150x150 x50 2mm thick Cable tray (For Submain Incoming) 200x200 x50 2mm thick Cable tray (For Main and DG) Fabricating supplying to site of installation, in floor including chase cutting of floor,leveling, refilling and making good the same 1.6 mm thick G.I raceways of height 40 mm and 2.0 mm thick openable cover, totally enclosed,The two lengths of channels and junction box shall be nut bolted together to make it dust and water proof. complete with all fixing accessories as required.	RM	5		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE RS	AMOUNT RSs
	Supplying, installing, testing & commissiong of				
	surface/recessed mountings, Double door 415				
	volts TPN MCB distribution board of steel steel,				
	1.6mm thick dust phosphatized and painted,				
	inclusive of 100 amps, tinned copper busbars,				
	earthbar, common neutral link, din bar for				
	mounting of MCB's detachable gland / knock out				
	plate & with built in loose wire boxl, and superior				
	make terminal connectors for all incoming				
	and outgoing circuits duly prewired with				
	adequate size of PVC insulated copper wires				
	between the bus bars and the MCB's as well				
	as the incomer and upto the terminal				
	connectors/ neutral link and ready for installation				
	of following ways as required.				
	Use 'B' curve MCB's for lighting & small power				
	circuits, 'C' curve for motor duty i.e. for pumps,				
	AC motors, window and split AC's etc. & 'D'				
	curve for UPS DB's i.e. for computers/ PC's				
	circuit. Main incomer & outgoing circuit MCB's				
	shall be selected accordingly i.e. type B,C & D.				
	Contractor to select the MCB's accordingly as per				
	the nature of the circuit/ load.				
	Each DB shall have separate neutral links of				
	rating not less than 100A for each phase. The				
	main incoming neutral link shall be in addition to				
	three outgoing neutral links and shall be of 125				
	A. UPS DB's shall have a dedicated Earthing link				
	fixed on insulated supports, which will be in				
	addition to body earth link.				
	All internal inter connecting wiring with in the				
	DB's shall be PVC insulated flexible copper				
	conductor wires of adequate capacity as per the				
	current rating				
	Inside each DB, a DB chart is to be fixed.				
а	6-way TPN DB (LIGHT DB)	No.	1.00		
u	Incomer:-		1100		
	1 No. 40 Amp TPN (10 KA) MCB with 40 A DP				
	RCCB (100 MA) each phase				
	Outgoing:-				
	12 Nos.6/10 Amp (10 KA) SP MCB				
b	4-way V-TPN DB (AC)	No.	1.00		
	Incomer:-		1.00		
	1 No. 63 Amp 4 Pole (16 KA) MCCB				
	Outgoing:-				
	2 No. 40 Amp (16 KA) TP MCB				
	4 Nos.10/16/25/32 Amp (10 KA) SP MCB				
С	6-way TPN DB (Power DB)	No.	1.00		
	Incomer:-				
	1 No. 63 Amp TPN (10 KA) MCB with with 40 A				
	DP RCCB (100 MA) each phase				
	Outgoing:-				
	12 Nos.10/16/20/32 Amp (10 KA) SP MCB				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE RS	AMOUNT RSs
d	4-way TPN DB UPS ROOM (Customised)	No.	1.00		
u	Incomer:-	NO.	1.00		
	1 No. 63 Amp TPN (10 KA) MCB as Incomer				
	Outgoing:-				
	1 Nos. 40 Amp (10 KA) TPN MCB, For UPS				
	2 Nos. 40 Amp (10 KA) DP MCB, For UPS				
	2 Nos. 25 Amp (10 KA) SP MCB, For Split AC				
	2 Nos. 6/10/16 Amp (10 KA) SP MCB, For Lights,				
	Power & spare				
е	4-way SPN DB with 2 No 40 A (10 KA) DP MCB (For UPS Input)	No.	1.00		
f	4-way SPN DB with 1 No 32 A (10 KA) DP MCB (For UPS Input)	No.	2.00		
g	12-way SPN DB (For UPS Sub DB and LPDB)	No.	2.00		
	Incomer:-				
	1 No. 40 Amp DP (10 KA) MCB with 25 A DP				
	RCCB (100 MA)				
	Outgoing:-				
	8 Nos.6/10/16/25Amp (10 KA) SP MCB				
	0 103.0/10/10/23Amp (10 KA) 3F MCD				
h	8-way SPN DB (For ATM Sub DB and UPS DB) with lock and key arrangement	No.	2.00		
	Incomer:-				
	1 No. 40 Amp DP (10 KA) MCB with 25 A DP				
	RCCB (100 MA)				
	Outgoing:-				
	4 Nos.6/10/16/25Amp (10 KA) SP MCB				
E	(LIGHT FITTINGS & ACCESSORIES)				
	Supplying, installation with hanging support,				
	testing and commissioning of following light				
	fixtures with electronic Ballasts, Tubes, lamps, all				
	fixing materials including connecting wires etc.				
	all complete as per the directions of Engineer-in-				
	charge (All LED Light Fixures should be covered				
	with minimum 3 Years onsite replacement				
	warranty).				
i	FULL GLOW 2 X 2 LED 36 W slim Smart Panel of	Nos.	18.00		
	make As specified in tender document or				
	approved by SBIIMS/Architect.				
		NI	15 00		
ii	Supplying, fixing, testing and commissioning of		15.00		
	15 W LED commercial type down lighter of make				
	As specified in tender document or approved by				
	SBIIMS/Architect.				
iii	Supplying, fixing, testing and commissioning of 9	Nos.	10.00		
	W LED commercial type down lighter of make As				
	·· ·				
	specified in tender document or approved by				
	SBIIMS/Architect.				
iv	supplying , fixing ,testing and commissioning of 5	Nos.	3		
	W LED commercial type spot light of make As				
	·· · •				
	specified in tender document or approved by				
	bank				

v LED 18 watt Tube Light with all accessories.make As specified in tender document or approved by bank Nos. 16 vi LED Strip for cove lighting 15 W per 5 M with driver and necessary installation fittings Led strip light (5 mrt.) make as specified in tender document or approved by SBIIMS/Architect. Nos. 10.00 viii Supply, installation, testing and commissioning of following fans with all fixing materials like white Polycarbonate 2 mm Hylem sheet cover, down rods, fan box as required etc. all complete as per the directions of Engineer-in-charge. Nos. 10.00 a Wall mounted fans 400 mm dia. make As specified in tender document or approved by SBIIMS/Architect. (metal Body OhV) Nos. 3.00 DX W with self closing louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBIIMS/Architect. 3.00 T Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copper-bonder dor 10 feet length, 23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the Will). 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE RS	AMOUNT RSs
driver and necessary installation fittings Led strip light (5 mtr.) make as specified in tender document or approved by SBIIMS/Architect. vii Supply, installation, testing and commissioning of following fans with all fixing materials like white Polycarbonate 2 mm Hylem sheet cover, down rods, fan box as required etc. all complete as wall mounted fans 400 mm dia. make As specified in tender document or approved by SBIIMS/Architect. (metal Bdov/Only) b Supply & fixing of 230 mm exhaust fan 'Ventilair Nos. specified in tender document or approved by SBIIMS/Architect. F. EARTHING SYSTEM 1 Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copper-bonded root of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification adong with Rod-to-conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification adong with Rod-to-conductor con	V	As specified in tender document or approved by		16		
of following fans with all fixing materials like white Polycarbonate 2 mm Hylem sheet cover, down rods, fan box as required etc. all complete as per the directions of Engineer-in-charge. Image: Complete State Sta		driver and necessary installation fittings Led strip light (5 mtr.) make as specified in tender document or approved by SBIIMS/Architect.		10.00		
specified in tender document or approved by SBIIMS/Architect. (metal Body Only) Supply & fixing of 230 mm exhaust fan 'Ventilair DX W' with self closing louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBIIMS/Architect. 3.00 F. EARTHING SYSTEM 0 1 Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill). Nos 2.00 2 Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill). 2.00 3 Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required 5.00 1 3 Providing and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/ recess cable as required. RM 10.00	vii	of following fans with all fixing materials like white Polycarbonate 2 mm Hylem sheet cover, down rods, fan box as required etc. all complete as per the directions of				
b Supply & fixing of 230 mm exhaust fan 'Ventilair DX W' with self closing louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBIIMS/Architect. 3.00 F. EARTHING SYSTEM 2.00 1 Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill). Nos 2.00 2 Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill). Nos 2.00 3 Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required. RM 5.00 II i 25 mm x 3 mm copper strip in B-class GI pipe RM 30.00 II 100.00 II ii 25 mm x 3 mm copper strip with proper clamps RM 100.00 II II	а	specified in tender document or approved by		10.00		
1 Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill). Nos 2.00 2 Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill). Nos 2.00 3 Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required along with the bill). Surple RM 5.00 5.00 4 25 mm x 3 mm copper strip in B-class GI pipe RM 10.00 100.00 11 25 mm x 3 mm copper strip in B-class GI pipe RM 30.00 100.00 11 25 mm x 3 mm GI strip RM 30.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 <		Supply & fixing of 230 mm exhaust fan 'Ventilair DX W' with self closing louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by		3.00		
of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill). Nos 2.00 2 Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill). Nos 2.00 3 Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required S.00 Extension for earthing, Earthing cortificate to be submitted along with the bill). 3 Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required. S.00 Extension for earthing along extrip with proper clamps i 25 mm x 3 mm copper strip with proper clamps RM 10.00 Image: Strip eccess cable as required.	F.	EARTHING SYSTEM				
of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill). 3 Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required i 25 mm x 3 mm copper strip in B-class GI pipe RM iii 25 mm x 5 mm GI strip RM iv Providing and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on surface or in recess for loop earthing surface/ recess cable as required. 100.00	1	of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted		2.00		
surface or in recess for loop earthing etc. as i i 25 mm x 3 mm copper strip in B-class GI pipe RM ii 25 mm x 3 mm copper strip with proper clamps RM iii 25 mm x 5 mm GI strip RM iv Providing and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/ recess cable as required. RM	2	of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted		2.00		
ii25 mm x 3 mm copper strip with proper clampsRM10.00iii25 mm x 5 mm GI stripRM30.00ivProviding and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/ recess cable as required.RM100.00	3	surface or in recess for loop earthing etc. as required				
iii 25 mm x 5 mm GI strip RM 30.00 iv Providing and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/ recess cable as required. RM 100.00	i					
iv Providing and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/ recess cable as required. RM 100.00						
		Providing and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/	RM			
G. MAIN PANEL AND METER BOARD	G	recess cable as required. MAIN PANEL AND METER BOARD				

5.NO.	DESCRIPTION OF WORKS	UNIT	QTY	RATE RS	AMOUNT RSs
1	Designing, fabrication, supply, installation,				
	testing and commissionings of front operated				
	cubicle type compartmentalised, front access,				
	free standing on 75MM "[" MS channel, dust and				
	vermin proof (IP 42 degree protection) panel				
	suitable for use at 415V, 3 phase, 4-wire 50Hz				
	system suitable for fault level of required value				
	symmetrical at 415V fabricated from 2mm thick				
	CRCA MS sheets with hinged, gaskettted (Metal				
	based neoprene) locable doors having structural				
	reinforcement including 3mm thick gland plates				
	on top and bottom, lifting hooks, GI earth strip of				
	required size with 2 nos earth terminals, 2 nos				
	230V AC operated 250mm X 250mm size axial				
f	fans for exhaust of heat with On-Off toggle				
9	switches including 2 coated primer and 2 power				
	coated paint fnish of approved shade over metal				
	surface cleaned and treated with seven tank				
	process complete with interconnections etc as per				
-	specifications as required.main panel board of				
	approved make (KRYPTON POWER				
	CONTROLS/NEPTUNE/TRICOLITE/AMPTECH Or				
	should be CPRI Approved, Type of Approval as				
	instructed by the SBIIMS/Architect)as per the				
	following specifications,should be CPRI				
/	Approved.				
/	All live accessible parts shall be shrouded and all				
e	equipment shall be finger touch proof. The				
	busbars insulation shall be withheat 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 locable in OFF position.				
	Suitable arrangement shall be made for				
	termination of multiple incoming cables.				
	All kA values indicated shall be Ics breaking				
	capacity				
	GA drawings shall be got approved by SBI				
	Fabrication, supply, installation, testing and				
	commissionings of cubicle type floor/wall				
	mounted L.T. panel made out of 2 mm thick				
	CRCA sheet including connection, inter-connection				
	alongwith 4 strip aluminium busbar as per CPWD				
	specifications,(Part IV-Sub-station) etc. as				
1	required.(Meter Board)				
]	Incoming :-				
	1 No. 125 Amps, TPN MCCB (25 KA) with				
le le	extendeble rotary handle each thermal over				
	current, instantaneous, Short circuit				
	realease.Earth fault.				
li	i) Busbar :-160 Amps 4P aluminum conductor				
	bus bar (BPTM type Heat-shrinkable busbar				
	insulation) supported by DMC / FRP insulators.				
li	insuration, supported by Diric / Tite insulators.				
li					
	Complete panel described as above.	Set	1.00		
	Complete panel described as above.	Set	1.00		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE RS	AMOUNT RS
	INCOMER				1
	1no. 125 Amp 4P On Load Change over switch				
	with, 1 No. 125 Amps,TPN MCCB (25 KA) with				
	extendeble rotary handle each thermal over				
	current, instantaneous, Short circuit				
	realease. Earth fault.				
	BUSBARS				
	150 amps TPN pole busbar chamber of suitable				
	length with copper busbars. All busbars and				
	interconnections shall be of suitable size copper				
	strips.				
	INDICATING PANEL				
	Digital flush type class-1.0 accuracy				
	multifunction meter showing V, A, PF etc. with 3				
	Nos. current transformers of 125/5A ratio, 15 VA				
	Class-1.0 metering 1 sets				
	Red/Green/Amber ON/ OFF/ TRIP indicating				
	lamps with 2A SP MCB backup protection.				
	· · ·				
	1 set of three phase indicating lamps along with				
	2A SP MCB backup protection.				
	Restricted Earth fault relay with 3 Nos. current				
	transformers of 125/5 ratio, 10 VA Class 5P 10				
	(Numeric Relav not required.)				
	Undervoltage, Overvoltage & phase reversal relay				
	for persisted voltage of 105-180% & 20-95% of				
	rated voltage (Numeric Relay not required).				
	OUTGOINGS:-				
	4 Nos 40 A DP MCB (10 kA) terminals suitable to				
	receive cable on one side and wire connection to				
	Bus bars.				
	3 Nos 63 A TPN MCB (10 kA) terminals suitable				
	to receive cable on one side and wire connection				
	to Bus bars. (For Power DB,UPS Spare)				
	2 Nos 40 A TPN MCB (10 kA) terminals suitable				
	to receive cable on one side and wire connection				
	to Bus bars. (For Light DB & Spare)				
	2 Nos 63 A 4 Pole MCCB (16 kA) terminals				
	suitable to receive cable on one side and wire				
	connection to Bus bars. (for VTPN,CAPACITOR DB				
) The electrical panel as described above and	Set	1.00		
	specifications complete.	Set	1.00		
					1
С	Capacitor Panel				<u> </u>
	Supplying, installation, testing & commissioning	Set	1.00		
	of 15 KVAR, APFC Panel autooperation and power				
	factor should be nearing unity complete as				
	required inluding all contactors, relays, indivating				
	units etc. as required at site".				
	Capacitor make: L&T/ ABB/ Siemens/ Neptune				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE RS	AMOUNT RSs
н	PUBLIC ADDRESS SYSTEM				
1	Supply and laying Wiring of 1.5 sq mm twin core shelded type of speaker cable with Providing and fixing in position the following FRLS PVC conduits including all accessories concealed/ exposed in F.Ceiling/ Wall complete as required including 1.6/2.0 mm thick PVC junction or pull boxes with 3 mm thick perspex sheet cover plate complete with 1.6 mm dia G.I. pull wires in the length of conduit	RM	80.00		
2	Providing and fixing in position the following G.I. flexible conduits including all accessories				
a.	1.6 mm wall thickness 20 mm dia	RM	8.00		
3	Supply, installation, testing and commissioning of following Philips/BOSCH or equivalent make Music Accessories/ Equipments.				
а.	Ceiling Speaker Unit 6 Watts	Nos.	7.00		
b	Power Amplifier, 70 Watts with output transformer etc. complete. Plena Range or as approved by the Bank. Capable of taking inputs from USB etc.		1.00		
d	9U Equipment Rack complete with mounting unit, speaker, power supply control etc. President make suitable for 1x70 watts amplifier system With all terminating set up.	Nos.	1.00		
	TOTAL FOR ELECTRICAL WORKS				
Note		•			ortation, other