BOQ FOR STATE BANK OF INDIA BRANCH AT RAJDHANI ENCLAVE, PITAMPURA, NEW DELHI.

S.No	.No DESCRIPTION OF WORKS UNIT QTY RATE AMO						
		OMII	זוט	KAIE	AMOUNT		
1(A)	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/FRZH/FRZH) 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 filling 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 rates.						
i	One light points controlled by one 6 amp. Modular	Nos.	6.00				
	switch.						
ii	Two light points controlled by one 6 amp. Modular switch.	Nos.	31.00				
iii	Three light points controlled by one 6 amp. Modular	Nos.	13.00				
iv	switch. Four light points controlled by one 6 amp. Modular	Nos.	0.00				
IV	switch For cove light.		0.00				
V	Five light points controlled by one 6 amp. Modular switch	Nos.	2.00				
vi	One call bell point with ceiling rose/ 6amp. 3 pin	Nos.	1.00				
	socket controlled by one 6 amp. Push Modular switch.						
	With call bell						
vii	One wall fan/ ceiling/ exhaust fan point with 6 amp 3-	Nos.	13.00				
	pin socket controlled by one 6 amp. Modular switch. The switch should be at switchboard level.						
viii	Ceiling fan point controlled by one 6	Nos.	3.00				
	amp.Modular switch With Regulator.		0.00				
ix	Same as serial no 1 but using 2*2.5 + 1*2.5 Sqmm						
	Copper Conductor FRLS/FRZH 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/FRZH insulated 1100V grade (max 3 points per						
	circuit).						
а	Primary Point	Nos.	4.00				
b	Secondary Point looped	Nos.	8.00				

S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
2	POWER POINTS	ONTI	QII	KAIL	APIOUNT
a)	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.		8.00		
b)	Secondary Point	Nos.	4.00		
3(a)	Same as serial no.1, but wiring for A/C socket by using 2*2.5 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*2.5 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 including top.	Nos.	3.00		
3(b)	Same as serial no.1, but wiring for A/C socket by using 2*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 2 way SPN DB complete in all respects controlled by with 40 Amp (10 KA) MCB to be provided near outdoor unit. The point starts from DB to the point near the outdoor unit.		2.00		
3(c)	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 2 way SPN DB complete in all respects controlled by with 40 Amp (10 KA) MCB to be provided near outdoor unit. The point starts from DB to the point near the outdoor unit.		2.00		
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) c) Same as above but provide for television. (Maximum 3 points in a circuit)				
	Primary Points	Nos.	4.00		
	Secondary Points	Nos.	8.00		

S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
1(B)	CONDUITING FOR TELEPHONE, COMPUTER &				
1.0	CONDUITING, WIRING FOR T.V. SYSTEM. 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.		12.00		
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.				
a)	Supplying & fixing 30 pair krone tag block with enclosure.	Nos.	1.00		
b)	P/L 30 Pair of PVC insulated PVC sheathed multi core jelly filled armored telephone.	Mtrs.	0.00		
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 the point.		12.00		
	Supplying and fixing 9 U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock & key).		1.00		
	Supply,Installation,Testing & Commissioning of 16 port Jack Panel.		0.00		
2.3 b	Supply,Installation,Testing & Commissioning of 24 port Jack Panel.		1.00		
2.4	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord)	Nos.	12.00		
2.5	Supplying and fixing Patch Cord-1 Meter-	Nos.	12.00		
2.6	Supply $\&$ fixing of 1.6 mm thick G.I. Box along with RG 6 T.V Coaxial socket with Cover Plate.	Nos.	3.00		
2.7	Supply,drawing,connecting,testing and commissioning of T.V Coaxial cable RG 6 in existing conduit.	RM	40.00		

S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
3	CABLES, MAINS & SUBMAINS				
1	Supplying all materials and laying/ pulling 1100 volts grade PVC insulated copper conductor wires (FRLS/FRZH/FRZH) 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.				
i	1 X 8SWG Cu wire in PVC conduits for earthing for internal DBS connections	RM	35.00		
ii	2 X 10 sq.mm. + 1 X 6 sq.mm. (UPS DB INCOMMER FROM UPS DB to UPS)	RM	20.00		
iii	S/L/T/C of 4 C X 10 sq.mm.at 1100 volts grade PVC insulated aluminum conductor armoured cable with 12 gauge GI earth wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc.as required as per specification (LIGHT DB).		25.00		
iv	S/L/T/C of 4 C X 16 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 12 gauge GI earth wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc.as required as per specification (POWER DB + UPS DB).		30.00		
V	S/L/T/C of 4 C X 25 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 12 gauge GI earth wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification (AC VTPN).		30.00		
vi	S/L/T/Cof 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).		30.00		
4	DISTRIBUTION BOARD				
	Supplying, installing, testing & commissiong of surface/recessed mountings, Double door 415 volts TPN MCB distribution board of steel steel, 1.6 mm 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.				

	DECENTATION OF WORKS		071		********
S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
	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 & shall be of 125A.				
	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.				
a	4-way TPN DB (LIGHT DB)	Nos.	1.00		
	Incomer:-				
	1 No. 32 A 4P RCCB (100 MA) plus blanking plates.				
	Outgoing:-				
	12 Nos.10/20 Amp (10 KA) SP MCB				
	12 NOS.10/20 AMP (10 NA) 31 PIEB				
b	4-way TPN DB (POWER DB)	Nos.	1.00		
	Incomer:-				
	1 No. 40 A 4P RCCB (300 MA) and blanking				
	plates				
	Outgoing:-				
	12 Nos.16/20/25 Amp (10 KA) SP MCB				
_	4 way TRN DR/CERVER DR)	Niss	1.00		
С	4-way TPN DB(SERVER DB) Incomer:-	Nos.	1.00		
	1 No. 63 Amp TPN (10 KA) MCB as Incomer				
	Outgoing:-				
	3 Nos. 40 Amp (10 KA) DP MCB, For UPS				
	2 Nos. 25 Amp (10 KA) SP MCB, For UPS AC				
	4 Nos. 6/10/16 Amp (10 KA) SP MCB, For Lights				
	& Power				
d	8-way SPN DB (For UPS Sub DB)	Nos.	1.00		
	Incomer:-				
	1 No. 25 A DP RCCB (100 MA) Outgoing:-				
	6 Nos.10Amp (10 KA) SP MCB				
	O MOSTOWIII (TO KA) SE LICO				
е	6 -way V-TPN DB (AC)	Nos.	1.00		
	Incomer:-				
	1 No. 63 Amp 4 Pole (16 KA) MCCB				
	Outgoing:-				
	3 No. 32 Amp (16 KA) TP MCB				
	/				

S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
5	(LIGHT FITTINGS,FANS & ACCESSORIES)				
a)	Supplying(Commercial Use Fixtures only),				
	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).				
	wantancy).				
i	2 X 2 LED, 36 W Ultra Slim LED Smart Panel of make	Nos.	15.00		
	BAJAJ/CG/PHILIPS/or approved by SBI/Architect.				
ii	Supplying, fixing, testing and commissioning of 15 W	Nos.	29.00		
	LED commercial type down lighter with external driver				
	of make BAJAJ/CG/PHILIPS/or approved by				
	SBI/Architect.	NI.	44.00		
iii	Supplying, fixing, testing and commissioning of 9 W LED commercial type down lighter external driver of		44.00		
	make BAJAJ/CG/PHILIPS/or approved by				
L	SBI/Architect.				
iv	supplying , fixing ,testing and commissioning of 5 W		30.00		
	LED SPOT commercial type spot light of make As				
	specified in tender document or approved by				
	bank/Architect.	Niss	0.00		
iv	supplying , fixing ,testing and commissioning of 3 WATT COB commercial type spot light of make As		0.00		
	specified in tender document or approved by				
	bank/Architect.				
V	LED 18 watt Tube Light with all accessories.make As	Nos.	2.00		
	specified in tender document or approved by				
	bank/Architect.				
Vİ	S.I.T.C of LED Box Type Cove Lighting (300, 600, 900				
	& 1200mm) in Length of Philips /CG /SYSKA or, eqv make with all accessories like drivers, connecting				
	wires, etc. all complete.				
a)	a. 300 MM Length	Nos.	10.00		
b)	b. 600 MM length	Nos.	20.00		
c)	c. 900 MM length	Nos.	15.00		
d)	d.1200 MM length	Nos.	15.00		
vii)	Wall mounted fans 400 mm dia. make As specified in	Nos.	13.00		
	tender document or approved by SBI/Architect. (Metal				
	Body Only) AS PER BANK INSTRUCTION				
	Complete 0. finding of 220 mans and a control for with	NI.	4.00		
viii)	Supply & fixing of 230 mm exhaust fan with louvers and plastic body with all accessories etc. complete of		4.00		
	make As specified in tender document or approved by				
	SBI/Architect.				
ix)	Ceiling fans 1200 mm dia. make As specified in tender	Nos.	3.00		
	document or approved by SBI/ Architect.				
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S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
6	EARTHING SYSTEM				
a)	Supply,Installation,Testing and Commissioning of Waterless Maintenance Free Earthing Based on Pre-Casted Conductive Earthing Electrode Work should be executed through either Bank approved agency or M/S Information technology (ITPC) Contact:9811067053/9717983433 i) Dimensions Length x Dia (MM): 2000 x 100 with 16mm Solid Conductor (Cu) ii) Conduction: Non Ionic Movement of Ions iii) Multi Point Dissipation Contacts iv) Exceeds Grade 25 Concrete v) Environment: Ph Neutral Internal Material vi) Relative Density: 890-990 kg/m3 vii) 3000 times more effective than Bentonite viii) Electrolytic Corrosion Resistance: >86% reduction in corrosion ix) Short Circuit Current (Tested):Peak:40 KA RMS:22 Kilo Amps for 1 Sec x) Mechanical Strength: >Grade 25 Concrete xi) High Fault Current Test Withstand: 1686 V for 500 ms xii) Standards: IEEE 80:2000 & BS 7430 xiii) Warranty:10 Years Full Replacement xiv)Life of Earthing:25 Years respectively xivi) Make:KRATONITE / ITPC-METCHEM / KARANITE	Nos	4.00		
2	Providing and fixing of Copper strips in surface or in recess for loop earthing etc. as required.				
	Copper Strip (PVC insulated heat shrinkable sleeves)of size 25 x 3mm as in earth continuity conductor fixed to wall or buried in ground or any other situation for loop earthing as required at site (Quantity depend on Site Requirement)	RM	40.00		
	Providing and fixing 2 X 8 SWG dia.Cu earth wire in GI conduit on surface or in recess for earthing along with the existing surface/ recess cable as required. From pit to the panel & UPS	RM	50.00		
	25 mm x 5 mm GI strip 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	30.00		

S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
7	MAIN PANEL AND METER BOARD		~		
,	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 fans for				
	exhaust of heat with On-Off toggle 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/R-				
	FLEX/TRICOLITE/Supertech Power control Type of				
	Approval as instructed by the SBI/Architect)as per				
	the following specifications.				
	All live accessible parts shall be shrouded and all				
	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.				
	Inaliales shall be locable in Orr 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 from SBI				
_	Bearing the Hall to the Color of the Color o				
a.	Panel shall be consisted of : -				
	INCOMER FROM MAIN LINE				
	1 No.125 Amps,TPN MCCB (25 KA)with				
	extendeble rotary handle each thermal over				
	current,instantaneous,Short circuit realease,Earth fault.				
	BUSBARS				
	150amps TPN pole busbar chamber of suitable length				
	with copper busbars.All busbars and interconnections				
	shall be of suitable size copper				
	strips.				
	INDICATING & CONTROL				
	Digital flush type class-1.0 accuracy multifunction				
	meter showing V, A,PF etc.with 3 Nos.current				
	transformers of 125/5A ratio,10 VA Class-1.0				
	metering 1 sets				
	Red/Blue/Yellow three phase indicating lamps				
	with SP MCB backup protection.				

S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
	OUTGOINGS:-				
	2 Nos 40A TPN MCCB (16 kA) terminals suitable to				
	receive cable on one side and wire connection to Bus				
	bars. For capacitor Bank AND AC VTPN.				
	INCOMER FROM MAIN PANEL BUS BAR				
	1no. 100 Amp 4-P On Load Change over switch				
	with 1 No. 100 Amps, TPN MCCB (25 KA) with				
	lextendeble rotary handle.				
b	INCOMER FROM MAIN PANEL BUS BAR				
	1no. 100 Amp 4-P On Load Change over switch				
	with 1 No. 100 Amps, TPN MCCB (25 KA) with				
	extendeble rotary handle.				
	BUSBARS				
	125amps 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 100/5A ratio,10 VA Class-1.0				
	metering 1 sets				
	inclering. 1 sets				
	OUTGOINGS:-				
	3 Nos 63A TPN MCCB (10 kA) terminals suitable to				
	receive cable on one side and wire connection to Bus				
	bars. (For AC DB, UPS & AFPC)				
	1 Nos 40A TPN MCB (10 kA) terminals suitable to				
	receive cable on one side and wire connection				
	to Bus bars. (For PDB)				
	1 Nos 32A TPN MCB (10 kA) terminals suitable to				
	receive cable on one side and wire connection				
	to Bus bars. (For LDB)				
	3 Nos 40A DP MCB (10 kA) terminals suitable to				
	receive cable on one side and wire connection to Bus				
	bars. (For SIGNAGE)	_			
	The electrical panel as described above and	Set	1.00		
	specifications complete. Supplying, installation, testing & commissioning of	Set	1.00		
С	15KVAR,APFC Panel autooperation and power factor	Set	1.00		
	should be nearing unity complete as required inluding				
	all contactors, relays, indivating units etc. as required				
	at site".Capacitor make: ABB/ Siemens/ Neptune				
	5 nos. of capacitor duty contactors				
	2Nos.5 KVAR MPP type heavy duty capacitor banks				
	along with 2 Nos.16A TP MCB of 10 KA service				
	breaking capacity with heavy duty solid				
	detachable neutral link 2 Nos.2 KVAR MPP type heavy duty capacitor banks				
	along with 2 Nos.10A TP MCB of 10KA service breaking				
	capacity with heavy duty solid				
	detachable neutral link				

S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
	1 Nos.1 KVAR MPP type heavy duty capacitor banks along with 1Nos.10A TP MCB of 10 KA service breaking capacity with heavy duty solid detachable neutral link				
8	PUBLIC ADDRESS SYSTEM				
i	Supply & laying Wiring of 1.5 sqmm twin core shelded type of speaker cable in FRLS/FRZH PVC conduits i/c all accessories concealed/exposed in F.Ceiling/Wall complete as required including 1.6/2.0 mm thick PVC junction (Point Rate Basis).		6.00		
ii	Supply,installation,testing and commissioning of following (BOSCH/AHUJA) make Music Accessories / Equipments.				
	Ceiling Speaker Unit 6 Watts LHM 0606/10	Nos.	6.00		
iii	SHURE/BOSCH/ AHUJA make Power Amplifier,100 Watts with output transformer etc.complete. Plena Range or as approved by the Bank capale of taking Inputs from USB Also		1.00		
iv	Supplying of AHUJA/SHURE/BOSCH make Cordless Mike of minimum range 10M and compatible to	Nos	1.00		
V	6U Equipment Rack complete with monitor unit, speaker, power supply control etc. President make suitable for 1×100 watts amplifier system With all terminating set up.		1.00		
	TOTAL FOR ELECTRICAL WORKS				

Note:- The rates quoted includes all other taxes , duties , loading, unloading , transportation. (Only GST will be paid Extra)