	STATE BANK O	F INDI	Α		
I	ELECTRICAL ESTIMATE WORKS FOR SE	BI ACE	DIVINO	BRANCH	, NOIDA
S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
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		VIY	KAIE	AMOUNI
	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	Primary light points controlled by one 6 amp.  Modular switch	Nos.	35.00		
ii	Secondary light points controlled by one 6 amp. Modular switch	Nos.	47.00		
iii	One call bell point with ceiling rose/ 6amp. 3 pin socket controlled by one 6 amp. Push Modular switch. With call bell	Nos.	1.00		
iv	One wall fan/ exhaust fan point controlled by one 6 amp. Modular switch. The switch should be at switchboard level		22.00		
V	One 5 pin socket controlled by one 6 amp. Modular switch complete assembly includes plate box etc.				
a	Dependent	Nos.	6.00		
Vİ	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.				
а	Primary	Nos.	6.00		
b	Secondary	Nos.	10.00		
vii	Same as serial No. 1 but using 2*2.5 + 1*2.5 Sqmm Copper Conductor FRLS wires from DB to first 16 Amp MCB two Nos. for Glow sign Board.				
a	Primary Point	Nos.	2.00		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
			-		
2	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 <sup>st</sup> socket and 1 <sup>st</sup> to 2 <sup>nd</sup> , 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). Note: Only 2 points shall be provided in a circuit				
a)	Primary point	Nos.	8.00		
b)	Secondary point	Nos.	7.00		
3(a)	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 2 Nos. AC box (tiny trip type) with socket complete in all respects controlled by 25/32 A SP MCB one to be provided near indoor unit and second near DB. The point starts from DB to stabilizer to the point near the indoor unit including top.		6.00		
3(b)	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 and weather proof type 4 way SPN DB complete in all respects controlled by with 32 Amp TPN (10 KA) MCB to be provided near outdoor unit. The point starts from DB to the point near the outdoor unit (includes wires for terminal connection of outdoor unit from TPN) including wiring to the terminals of the outdoor unit from weather proof box. Item to also include termination lid between MCB and outdoor unit.		2.00		
2	COMPUTED DOINTS				
3 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.				
	Primary	Nos.	6.00		
	Secondary	Nos.	11.00		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
b	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 1				
	Nos. 16 amps 5 pin modular type sockets, 1				
	Nos. 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 <b>Data</b>				
	Pack Fire				
	Primary	Nos.	3.00		
	Secondary	Nos.	3.00		
В.	CONDUITING FOR TELEPHONE, COMPUTER				
	& CONDUITING, WIRING FOR T.V. SYSTEM.				
	,				
1.0	TELEBHONE SYSTEM				
1.0	TELEPHONE SYSTEM Wiring for VOICE from Jack Panel in data rack to	Nos.	9.00		
1	computer workstation with Cat-6 voice cable in	1403.	3.00		
	PVC conduits of size 20/ 25 mm including				
	providing ferrules at both ends and termination				
	at both ends including providing & fixing frame				
	for telephone socket with shutter, RJ 47 outlet,				
	faceplate and mounting box complete of modular				
	type. This work includes supply and laying of				
	CAT-6 cable in PVC conduits throughout the				
	length, from the I/O hub to the point.				
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 20 pair krone tag block with	Nos.	1.00		
	enclosure.		40.00		
b)	P/L 20 Pair of PVC insulated PVC sheathed multicore jelly filled armored telephone.	Mtrs.	40.00		
	core jeny filled armored telephone.				
2	COMPUTER NETWORKING				
2.1	Wiring for computer networking from Jack Panel	Nos.	22.00		
	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.				
2.2	Supplying and fixing 9 U (Rack with glass door,	Nos.	1.00		
	opening in the front power panel 1 (horizontal), cable manager 1 lock & key).				
<u> </u>	cable manager i lock & key).				L

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
2.3	Supply, Installation, Testing & Commissioning of 24 port Jack Panel (One each for data and telephone)		1.00		
2.4	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord)	Nos.	22.00		
2.5	Supplying and fixing Patch Cord-1 Meter-	Nos.	22.00		
C	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.				
i	2 X 6 sq.mm. + 1 X 6 sq.mm. (UPS DB Branch, UPS Input/ Output)	RM	15.0		
ii	2 X 4 sq.mm. + 1 X 4 sq.mm. (UPS DB E-Lobby, E-Lobby DB, E-Lobby UPS Input/ Output)	RM	30.0		
iii	Supplying, laying, testing & commissioning of 4 C X 10 sq.mm. at 1100 volts grade PVC insulated aluminium 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 (LIGHT DB, POWER DB, UPS Supply).		60.00		
iv	Supplying, laying, testing & commissioning of 4 C X 16 sq.mm. at 1100 volts grade PVC insulated aluminium 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 (V-TPN AC DB)		10.00		
V	Supplying, laying, testing & commissioning of 4 C X 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification (for Main Connection).		85.00		
	DISTRIBUTION BOARD				
D.	DISTRIBUTION BOARD				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
	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.				
	and nature of the chedry 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.				
a	4-way TPN DB (LIGHT DB & 6A RAW)	No.	2.00		
a	Incomer:-	INO.	2.00		
	1 No. 40 Amp TPN (10 KA) MCB with 40 A DP				
	RCCB (100 MA) each phase				
	Outgoing:-				
	6 Nos.10/20 Amp (10 KA) SP MCB				
b	4-way TPN DB (16A RAW POWER DB & AC	No.	1.00		
	DB)				
	Incomer:- 1 No. 63 Amp TPN (10 KA) MCB with 40 A DP				
	RCCB (100 MA) each phase				
	Outgoing:-				
	6 Nos.10/20 Amp (10 KA) SP MCB				
	A-way VTDN DR (164 DAW DOWED DD 9 40	No	1.00		
С	4-way VTPN DB (16A RAW POWER DB & AC DB)	No.	1.00		
	Incomer:-				
	1 No. 63 Amp TPN 4 Pole (16KA) MCCB				
	Outgoing:-				

S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
310.	2 Nos. 32 Amp (10 KA) TP MCB	0.411	4''	IXAIL	AMOUNT
	6 Nos.10/20 Amp (10 KA) SP MCB				1
	O NOS.10/20 AMP (10 KA) SP MCB				
d	8-way SPN DB (For UPS INPUT) with 2 Nos.	No.	1.00		
u	163 A TPN MCB as incomer	INO.	1.00		
	OS A TEN MED as income				
	CON DR. 11 40 4 DR MCD (5 LIDS		4.00		
е	2-way SPN DB with 40 A DP MCB (For UPS	No.	4.00		
	Input/ output)				
f	12-way SPN DB (For UPS OUTPUT)	No.	1.00		
	Incomer:-				
	1 No. 40 Amp DP (10 KA) MCB with 40 A DP				
	RCCB (100 MA)				
	Outgoing:-				
	8 Nos.6/10/16 Amp (10 KA) SP MCB				
	6 600 00 (5 5		4.00		
g	6-way SPN DB (For E - Lobby) double door	No.	1.00		
	DB with lock & key arrangement				
-	Incomer:- 1 No. 40 Amp DP (10 KA) MCB with 40 A DP				
	, , ,				
	RCCB (100 MA) Outgoing:-				
	2 Nos. 6/10/16 Amp (10 KA) SP MCB				
	2 103: 0/10/10 Amp (10 RA) 31 MEB				
h	8-way SPN DB (E-Lobby UPS Sub DB)	No.	1.00		
l ''	double door DB with lock & key	110.	1.00		
	arrangement				
	Incomer:-				
	1 No. 25 Amp DP (10 KA) MCB with 25 A DP				
	RCCB (100 MA)				
	Outgoing:-				
	4 Nos. 6/10/16 Amp (10 KA) SP MCB				
	14 NOS. 0/ 10/ 10 AMP (10 RA) SF MCD				
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 1 Years onsite				
	replacement warranty).				
i	FULL GLOW 2 X 2 LED 36 W slim Smart Panel of	Nos.	13.00		
	make As specified in tender document or				
	approved by SBI/ Architect.				
ii	Supplying, fixing, testing and commissioning of	Nos.	48.00		
"	15 W LED commercial type down lighter of make	1,03.	.5.55		
	As specified in tender document or approved by				
	SBI/ Architect.				
<u> </u>	•	NI.	10.00		
iii	Supplying, fixing, testing and commissioning of	Nos.	10.00		
	20 W LED T 8 (4'-0") fitting make As specified in				
	tender document or approved by SBI/ Architect.				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
iv	LED Strip for cove lighting 15 W per 5 M with driver and necessary installation supporting fittings of Led strip light (5 mtr.) make as specified in tender document or approved by SBI/ Architect.	Nos.	6.00		
V	Supplying, fixing, testing and commissioning of Surface mounted LED Profile Light Axeon 30 W (2 ft long) with plain diffuser suitable for continuous/ seemless connection of make Wipro/ as specified in tender document or approved by SBI/ Architect.	Nos.	5.00		
vi	Wall mounted fans 400/ 450 mm dia. make As specified in tender document or approved by SBI/ Architect (METAL BODY).	Nos.	16.00		
Vii	Supply & fixing of 230 mm exhaust fan with louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBI/ Architect.	Nos.	4.00		
F.	EARTHING SYSTEM				
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 0.25 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		
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 earth wire in surface or in recess for loop earthing etc. as required.				
i	Providing and fixing 1 X 10 Sq.mm. Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/recess cable as required with using of copper lug at end termination	RM	180.00		
ii	Providing and fixing G.I. earth link with insulator and 10 nos of nut, bolt, washer, and spring washer for earth wire connecting in UPS room.	Nos.	1.00		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
4 a	Providing and fixing of cable tray GI perforated type cable tray of approved make. The cable tray shall be fixed to ceiling/ wall with suitable size of GI clamp, appropriate dia. threaded rod and C Channel putty/ suitable size of MS angle support painted with 2 coats of paint. Item to include provision of scaffolding etc. as required for works.  150 mm wide and 50 mm high		60.00		
G.	MAIN PANEL AND METER BOARD				
1	supply, installation, testing and commissionings of cubicle type floor/wall mounted L.T. Metal D.B of reputeded make with extendeble rotary handle and extended connecting links		1.00		
	1 No. 100 Amps,TPN MCCB (25 KA) with standard enclosure as per manufacturer specification or as approved by the architect/Bank's Engineer	Nos.	1.00		
2	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 2 mm thick CRCA MS sheets with hinged, gaskettted (Metal based neoprene) locable doors having structural reinforcement including 3 mm 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 250 mm X 250 mm 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				
	Type of Approval as instructed by the SBI/Architect). 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 locable in OFF nosition.  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 Architect/ SBI				
a.	Floor panel shall consists of : -				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
	INCOMER		<b>Q</b> 1 1		
	1no. 100 Amp 4P On Load Changeover switch				
	with 1 no. of 100 A TPN MCCB (25KA) with				
	extandable rotary handle each				
	,,				
	BUSBARS				
	125 amps TPN 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				
	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 100/5 ratio, 10 VA Class 5P 10				
	(Numeric Relay not required)				
	OUTGOINGS:-				
	3 Nos 40 A DP MCB (10 kA) terminals suitable				
	to receive cable on one side and wire				
	connection to Bus bars (E-Lobby, Sign board)				
	4 Nos 63 A TPN MCB (10 kA) terminals suitable				
	to receive cable on one side and wire				
	connection to Bus bars. (For UPS Incomer DB,				
	Power/ AC DB, 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)				
	, /				
	1 Nos 63 A 4 pole MCCB (16 kA) terminals suitable to receive cable on one side and wire				
	connection to Bus bars. (For VTPN AC DB)				
	,	C - L	1.00		
	The <b>electrical panel</b> as described above and specifications complete.	Set	1.00		
	specifications complete.				
	DUDLIC ADDRESS SYSTEM				
<b>H.</b> 1	PUBLIC ADDRESS SYSTEM Point wiring for speakers in 1.5 sq mm twin core	Nos.	4.00		
1		NOS.	4.00		
	shelded type of speaker cable with Providing and fixing in position the following FRLS PVC				
	, ,				
	<b>conduits</b> 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 3mm thick perspex				
	sheet cover plate complete with 1.6 mm dia G.I.				
	pull wires in the length of conduit. including all				
	accessaries				
2	Supply, installation, testing and commissioning				
<u> </u>	of following Philips (BOSCH) make Music				
	Accessories/ Equipments.				
<u>а.</u>	Ceiling Speaker Unit 6 Watts	Nos.	4.00		
<u>.</u>	Johns Speaker Sint o Water	11031	1.00		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT	
	Power Amplifier, min 30/ 40 Watts with output transformer etc. complete. Plena Range/ Ahuja or as approved by the Bank capable of taking Inputs from USB Also.		1.00			
	TOTAL FOR ELECTRICAL WORKS					
Note	Note:- The rates quoted includes all other taxes , duties , loading, unloading , transportation, other expenses etc to site. only GST will be paid Extra					