В	ILL OF QUANTITIES FOR ELECTRICAL & A BRANCH, GURU			FOR SBI SI	ECTOR 52
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 clamps etc. all complete.				
	(Wherever required as per standard				
	specifications).				
	i) Each circuit shall have independent earth wire.				
	ii) Each point shall be earthed.				
	<ul><li>iii) Circuit wiring is to be included in point wiring rates.</li></ul>				
i	Primary light points controlled by one 6 amp.	Nos.	56.00		0.00
	Modular switch				
ii	Secondary light points controlled by one 6 amp.	Nos.	61.00		0.00
iii	Modular switch One call bell point with ceiling rose/ 6amp. 3 pin	Nos.	1.00		0.00
""	socket controlled by one 6 amp. Push Modular	NOS.	1.00		0.00
iv	switch. With call bell One wall fan/ exhaust fan point controlled by one	Nos.	22.00		0.00
1 4	6 amp. Modular switch. The switch should be at	1403.	22.00		0.00
	switchboard level				
V	One 5 pin socket controlled by one 6 amp.				
	Modular switch complete assembly includes plate				
	box etc.				
a	Dependent	Nos.	6.00		0.00
vi	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.				
					_
a	Primary	Nos.	6.00		0.00
b	Secondary	Nos.	10.00		0.00
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.				
	Primary Point	Noc	2.00		0.00
a	Timiary Fullic	Nos.	2.00		0.00
2	POWER POINTS				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
	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.	7.00		0.00
b)	Secondary point	Nos.	7.00		0.00
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.	Nos.	4.00		0.00
3(b)	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 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. Item to also include termination lid between MCB and outdoor unit.	Nos.	5.00		0.00
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 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.	Nos.	1.00		0.00
4	COMPUTER POINTS				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
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.	7.00		0.00
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 Data Rack, Fire.		12.00		0.00
	Primary	Nos.	3.00		0.00
	Secondary	Nos.	3.00		0.00
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 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.		11.00		0.00
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 20 pair krone tag block with	Nos.	1.00		0.00
b)	enclosure. P/L 20 Pair of PVC insulated PVC sheathed multi	Mtrs.	35.00		0.00
<b>—</b>	core jelly filled armored telephone.				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
2.1	Wiring for computer networking from Jack Panel	Nos.	21.00		0.00
	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		0.00
2.2	opening in the front power panel 1 (horizontal),	1105.	1.00		0.00
	cable manager 1 lock & key).				
2.3	Supply, Installation, Testing & Commissioning of	Nos.	1.00		0.00
	24 port Jack Panel (One each for data and				
2.4	telephone) Supplying and fixing Patch Cord-2 Meter- (DBPS	Nos.	21.00		0.00
2.4	Mounting Cord)	1105.	21.00		0.00
2.5	Supplying and fixing Patch Cord-1 Meter-	Nos.	21.00		0.00
	CARLES MATNESS CURVATUS				
<b>C.</b> 1	CABLES, MAINS & SUBMAINS Supplying all materials and laying/ pulling 1100				
1	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.				
	mast be so min below the noor mish level.				
i	2 X 6 sq.mm. + 1 X 6 sq.mm. (UPS DB Branch,	RM	65.0		0.00
	UPS Input/ Output)				
ii	2 X 4 sq.mm. + 1 X 4 sq.mm. (UPS DB E- Lobby, E-Lobby DB, E-Lobby UPS Input/	RM	25.0		0.00
	Output)				
iii	Supplying, laying, testing & commissioning of 4 C	RM	105.00		0.00
	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)				
iv	Supplying, laying, testing & commissioning of 4 C	RM	10.00		0.00
	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)				
V	Supplying, laying, testing & commissioning of 4 C	RM	50.00		0.00
	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)				
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.				
	,				
	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		0.00
a	Incomer:-	110.	2.00		0.00
	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				
		n.	1.00		2.22
b	4-way TPN DB (LIGHT/ POWER/ AC DB) - BASEMENT	No.	1.00		0.00
	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				
			4.00		0.00
С	4-way TPN DB (16A RAW POWER DB & AC DB) - FIRST FLOOR	No.	1.00		0.00
	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				
	1				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
d	4-way VTPN DB (16A RAW POWER DB & AC DB) - GROUND FLOOR Incomer:-	No.	1.00		0.00
	1 No. 63 Amp TPN 4 Pole (16KA) MCCB				
	Outgoing:-				
	2 Nos. 32 Amp (10 KA) TP MCB				
	6 Nos.10/20 Amp (10 KA) SP MCB				
е	4-way SPN DB (For UPS INPUT) with 1 Nos.	No.	1.00		0.00
	63 A TPN MCB as incomer				0.00
f	<b>2-way SPN DB with 40 A</b> DP MCB (For UPS Input/ output)	No.	5.00		0.00
g	8-way SPN DB (For UPS OUTPUT) - GROUND & FIRST FLOOR	No.	2.00		0.00
	Incomer:- 1 No. 40 Amp DP (10 KA) MCB with 40 A DP RCCB (100 MA)				
	Outgoing:-				
	4 Nos.6/10/16 Amp (10 KA) SP MCB				
h	8-way SPN DB (For E - Lobby) double door DB with lock & key arrangement	No.	1.00		0.00
	Incomer:- 1 No. 40 Amp DP (10 KA) MCB with 40 A DP				
	RCCB (100 MA) Outgoing:-				
	4 Nos. 6/10/16 Amp (10 KA) SP MCB				
i	8-way SPN DB (E-Lobby UPS Sub DB) double door DB with lock & key arrangement	No.	1.00		0.00
	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				
Ε.	(LIGHT FITTINGS & ACCESSORIES)				
i.	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-incharge (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 make As specified in tender document or approved by SBI/ Architect.		25.00		0.00
ii	Supplying, fixing, testing and commissioning of 15 W LED commercial type down lighter of make As specified in tender document or approved by SBI/ Architect.	Nos.	61.00		0.00
iii	Supplying, fixing, testing and commissioning of 20 W LED T 8 (4'-0") fitting make As specified in tender document or approved by SBI/ Architect.		10.00		0.00

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.		6.00		0.00
V	Supplying, fixing, testing and commissioning of surface LED Profile Light with plain diffuser suitable for continuous/ seemless connection of make Wipro/ Philips/ Havells as specified in tender document or approved by Bank/ Architect (Note: First make is the preferred make. Contractor shall take approval before installation).		15.00		0.00
vi	Wall mounted fans 400/ 450 mm dia. make As specified in tender document or approved by SBI/Architect (METAL BODY).		16.00		0.00
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.		5.00		0.00
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 0.25 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		0.00
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		0.00
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		140.00		0.00
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.		1.00		0.00
4	Providing core cutting in RCC slab as required as per site of works of approx 100 mm diameter all complete.		2.00		0.00
G.	MAIN PANEL AND METER BOARD	l	1		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
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 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		0.00
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 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 <b>Architect/ SBI</b>				
а.	Floor panel shall consists of : - INCOMER				
	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.				
<u> </u>					
	INDICATING PANEL				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
	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				

.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUN'
	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)				
	Das bars (E Lobby, Sign board)				
	3 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 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 AC DB)				
	The <b>electrical panel</b> as described above and	Set	1.00		0.00
	specifications complete.				
	Comply installation tasting and commissioning of	Cat	1.00		0.00
b	Supply, installation, testing and commissioning of	Set	1.00		0.00
	15 KVAR capasitor as following-				
	T : 624 4   MCCD 0   1   6				
	Incoming- 63A 4pole MCCB, Outgoing- 6 stage				
	power factor relay with 3 nos. 63/5 current				
	transformer for current sensing capacitor 1 KVaR-				
	1 nos, 2 KVaR- 2nos., 5 KVaR- 2 nos. Contractors				
	and TP MCB on each complete with phase				
	indication and stage indication with auto / manual				
	function. MS cubical having ventilation with				
	wiremesh, copper conductors and copper busbars				
	etc complete as per direction of Architect /Bank.				
н.	PUBLIC ADDRESS SYSTEM				
1	Point wiring for speakers in 1.5 sq mm twin core	Nos.	5.00		0.00
	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 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					
2	Supply, installation, testing and commissioning of				
	following Philips/Bosch/Ahuja make Music				
	Accessories/ Equipments.				
a.	Ceiling Speaker Unit 6 Watts	Nos.	5.00		0.00
b.	Power Amplifier, min 30 Watts with output	Nos.	1.00		0.00
	transformer etc. complete. Plena Range/ Ahuja or				1
	as approved by the Bank capable of taking Inputs				1
	from USB Also.				
					<del></del>
	TOTAL FOR ELECTRICAL & ALLIED WORKS		'		0.00

Geotech Technical Associates Pvt. Ltd.