

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
	NOTE : Rte should be inclusive of materials, labour, tools, machinery, scaffolding, final disposal of debries, cleaning, cutting, wastage etc. all taxes, transporation etc. complete (excluding GST) GST will be paid as applicable at the time of paymnet of bills.				
	Dismantalling and removing electrical fittings and fixtures along with wiring / lan connectivity in phased manner, as per site conditions, with provision of temporary lights and lan connectivity to keep the floor operational and live at all times during renocvation work.	LS	0.00		
A	POINT WIRING				
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 (wherever required) and chromium plates brass screws/ rowel plug etc. The price includes here GI modular box, Modular plate & modular switches of suitable modle size as per approved drawings & specifications. 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 filing 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 switch.	Nos.	8		
ii	Two light points controlled by one 6 amp. Modular switch.	Nos.	23		
iii	Three light points controlled by one 6 amp. Modular switch.	Nos.	6		
iv	Four light points controlled by one 6 amp. Modular switch For cove light.	Nos.	29		
v	One ceiling fan point controlled by one 6 amp. Modular switch with 5 step regulator.	Nos.	0		
vi	One call bell point with ceiling rose/ 6 amp. 3 pin socket with modular box & plate etc and controlled by one 6 amp Push Modular switch. The price excludes herewith call bell of approved make & specification.	Nos.	1		
vii	One wall fan / exhaust fan point with 6 amp 3-pin socket includes modular metal box & plates etc and controlled by one 6 amp. Modular switch. The switch should be at switchboard level.	Nos.	32		
viii	A group of light/fan points controlled by one PIR cum occupancy sensor and one 20AMP modular switch (BM room / Locker room)	Nos.	1		
2	5 AMP plug points				
	Main specification as above for wiring / conduits, 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 (max 3 points per circuit).				
a	Primary Point	Nos.	18		
b	Secondary Point looped	Nos.	35		
3	POWER POINTS				
	Main specification as above for wiring / conduits, 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 1st socket and 1st to 2nd 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 3 points per circuit.				
a	Primary Point	Nos.	18		
b	Secondary Point	Nos.	35		
4	AC POINTS				
a	Main specifications as above for wiring/conduits 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/AC control switch to the point near the indoor unit and then to outdoor unit.	Nos.	7		

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b	Main specification as above for wiring/conduit but wiring for A/C socket by using 4*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 to be laid up to Outdoor Unit with 4 way SPN DB complete in all respects controlled by with 32 Amp (10 kA) TPN MCB to be provided near outdoor unit. The point starts from DB to the point near the outdoor unit and then to indoor unit.	Nos.	0		
5 COMPUTER / UPS POINTS					
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 switch & one LED indicator 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 with indicator should be fixed above the top of counter with indicator and sockets under the counter with indicator, looped from the above 1st point to 2nd point and 2nd point to 3rd point (maximum 3 points in circuit).				
i	Primary Points	Nos.	16		
ii	Secondary Points	Nos.	26		
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 1 nos. 6 amps 5 pin modular type sockets, One (1) No's 6 amps modular switch & one (1) indicator 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 with indicator should be fixed above the top of counter and sockets under the counter with indicator (at single window counter for GCC machines).				
	Looped from the above 1st point to 2nd point and 2nd point to the 3rd point (maximum 3 points in a circuit).				
i	Primary Points	Nos.	13		
ii	Secondary Points	Nos.	24		
c	UPS points as above (a) but each point to have 1 nos. 16 amps. 5 pin modular type sockets, 1 no's 16 amps modular switch with all accessories. 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. looped from the above 1st point to 2ndpoint (maximum 2 points in a circuit).				
i	Primary Points	Nos.	3		
ii	Secondary Points	Nos.	2		
7 TELEPHONE SYSTEM					
a	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.	Nos.	35		
b	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.				
i	Supplying & fixing 25 pair krone tag block with enclosure.	Nos.	2		
ii	P/L 50 pair of PVC insulated sheathed multi core jelly filled armored telephone.	Mtrs.	30		
8 COMPUTER NETWORKING					
	Wiring for computer networking from I/O hub to computer worksatation with Cat-6 computer cable including providing ferrules at both ends and termination at both ends including providing & fixing frame for CAT-6 with shutter. RJ-45 out;et, faceplate & mounting box complete of modular type. this also includes supply and laying of PVC conduit throughout the route of CAT-6 cable from the I/O hub to the point.	Nos.	43		
i	Supplying and fixing 12 U {Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock & key}.	Nos.	1		
ii	Supply, installation, testing & commissioning of 24 port jack panel.	Nos.	2		
iii	Supplying and fixing of patch cord - 2 meter (DBPS mounting cord - 7 feet)	Nos.	25		
iv	Supplying and fixing of patch cord - 1 meter (DBPS mounting cord - 3 feet)	Nos.	60		

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v	Supplying and fixing of 1.6 mm thick GI box along with RG 6 Coaxial cable in 2 mm thick PVC conduit with TV socket with cover plate.	Nos.	1		
9	CABLES, MAINS & SUBMAINS				
	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 (Circuit from UPS output DB to UPS distribution DBs)				
i	2C X 6 sq.mm. + 1 X 6 sq.mm cu wire (for UPS out-put DB)	RM	30		
ii	4CX6 sq.mm + 2 X 6 sq.mm (for light DB supply)	RM	0		
iii	1X8 SWG copper Earth wire in PVC conduit for loop earthing	RM	50		
iv	Supplying, laying, testing & commissioning of 4C X 10 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 SWG GI earth wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Power & Server room DB).	RM	100		
v	Supplying, laying, testing & commissioning of 4C X 16 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 SWG GI earth wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Main panel to VRF/ AC DB).	RM	100		
vi	Supplying, laying, testing & commissioning of 3.5C x 95 sq.mm. at 1100 volts PVC insulated aluminum conductor armoured cable with 8 SWG GI earth wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Mains from Service line & DG to MLT panel). The actual cable length may vary and its depends upon the actual DG location & service line connection location.	RM	80		
9.A	Cable Tray and Raceways				
	Supplying and fixing of following size of Perforated pre painted 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, painting suspenders etc as required. Rates shall be included tee, band reducers etc				
i	300x50 mm, 2mm thick Cable tray (For Submain Incoming)	RM	0		
ii	150x50 mm, 2mm thick Cable tray (For Submain Incoming)	RM	70		
iii	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	0.00		
10	DISTRIBUTION BOARD & ISOLATORS				
	Supplying, installing, testing & commissioning of surface/recessed mountings, Double door type 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 160 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.				
	All wires/cables to be connected through gland only.				
i	SITC of 100 AMP 4 pole MCCB tapoff box of rising mains with 2 nos 63 A 4 pole MCCB in electric room	Nos.	0		
ii	SITC of 63 AMP 4 pole MCCB tapoff box of rising mains with 2 nos 40 A 4-pole MCCB in electric room.	Nos.	0		

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a	6-way TPN DB LPDB Incomer 1 nos 40A TPN MCB + 40A ELCB (100 mA) Outgoing 24 Nos 10/16 Amp (10 KA) SP MCB	Nos.	1		
b	6-way TPN DB LPDB Incomer 1 nos 40ATPN MCB + 40A ELCB (300 mA) Outgoing 18 Nos 10/16 Amp (10 ka) SP MCB	Nos.	1		
c	6-way TPN DB PDB Incomer 1 nos 40 AMP FP MCB Outgoing 18 Nos 10/16 Amp (10 KA) SP MCB	Nos.	2		
d	6-way TPN DB (for UPS sub DB) Incomer 1 nos 63 AMP FP MCB Outgoing 2 nos 40A TPN MCB 2 nos 40A DP MCB	Nos.	1		
e	4 way SPN DB for Acs	Nos.	5		
f	8 way SPN DB LPDB Incomer 1 nos 32 AMP DP RCBO (100MA) Out going 6 nos 10/16 AMP (10 KA) DP MCB	Nos.	1		
11	Light fittings & accessories (Only commercial type fixtures only)				
	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 Fixtures should be covered with minimum 3 Years onsite replacement warranty).				
i	2 X 2 LED 36 Watt	Nos	37		
ii	12 W LED spot lighter	Nos	8		
iii	15 W LED recessed down lighter	Nos	143		
v	Supplying, fixing, testing and commissioning of LED batten light of 9W 600mm fixture length, surface mounted make As specified in tender document or approved by bank.	Nos	1		
vi	LED recessed / surface mounted / hanged from RCC ceiling 20 watts profile lights of 4 feet individual length joined together complete and necessary installation fittings LED colour & make as specified in tender document or approved by bank.	Nos	10		
vii	Supply & fixing of ceiling fans 1200 mm double ball bearing make as specified in tender document or approved by bank.	Nos	0		
viii	Cove light				
a	1 FT	Nos	2		
b	2 FT	Nos	13		
c	3 FT	Nos	0		
d	4 FT	Nos	153		
viii	Wall mounted fans 400 mm dia make as specified in tender document or approved by bank (metal body).	Nos	32		
ix	Supply & fixing of 230 mm exhaust fan 'Ventilator DX W' with self closing louvers and plastic body with all accessories etc. complete of make as specified in tender document or approved by bank.	Nos	0		

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12	EARTHING SYSTEM				
	Supply, installation, testing and commissioning of water less maintenance free earthing system based on pre casted conductive earthing electrode . Dimensions Length X Dia (MM) : 2000 X 100 with 15 MM Solid conductor (CU) Conduction: Non ionic movement of IONS multi point dissipation Contacts exceed grade 25 Concrete Environment: PH neutral Internal Material 'Relative Density : 890-990 KG / M3 3000 times more effective then Bentonite Electrolytic corrosion Resistance : 86 % reduction in corrosion short Circuit Current (tested) : Peak 40 KA RMS : 22 kilo AMPS for 1 sec. Mechanical strength: Grade 25 Concrete High Fault Current Test withstand: 1686 V for 500 ms Standards : IEEE 80: 2000 & BS 7430 Warranty : 10 years full replacement Life of earthing : 25 years respectively Make: KRATONITE / MARCONITE / KARANITE (Include chamber for earthing, earthing certification to be submitted along with bill)	Nos	4		
i	Providing and fixing of copper strips in surface of in recess for loop earthing rtc. As required.				
a	25 mm X 3 mm copper strip in B class GI pipe	RM	80		
b	25 mm X 5 mm GI strip	RM	0		
ii	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 cables as required.	RM	180		
13	MAIN PANEL & METER BOARD				
	Designing, fabrication, supply, installation, testing and commissionings of front operated cubicle type compartmentalised, front access, free standing on 75MM "I" 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, gasketted (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 (NEPTUNE / TRICOLITE / SUPER TECH POWER CONTROL / AMPTECH approval as instructed by the SBI / Architect) as per the following specifications,				

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	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 lcs breaking capacity				
	GA drawings shall be got approved by SBI				
A	INCOMING:				
	Incomer from main panel bus Bar				
	1 NOS, 160 AMP 4 P MCCB (25 KA) with extendable handle				
	1 NOS 160 AMP 4 P ON LOAD change over switch				
	BUS BAR:				
	200 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 160/5A ratio, 10 VA class-1.0 metering - 1 sets.				
	1 set of R-Y-B three phase LED indicating lamps along with 2 A SP MCB backup protection.				
	OUTGOINGS :				
	1 NOS 63 A TPN MCCB (25 KA) terminals suitable to receive cable on one side wire connections to Bus bars.				
	9 NOS 40 A TPN MCCB (10 KA) (individual compartment) terminals suitable to receive cable on one side and wire connection to bus bars (for ACDBs, LPDB).				
	1 NOS 32 A DP MCB (individual compartment) terminals suitable to receive cable on one side and wire connection to bus bars.				
	1 NOS 32 A TPN MCCB terminals suitable to receive cable on one side and wire connection to Bus bars (For LDB)				
B	The Electric Panel as described above and specifications complete.	SET	1		
C	Supplying, Installation, testing & commissioning of 25 KVAR, 6 step APFC relay panel auto - operation and power factor should be nearing unity complete as required including all contactors, relays, indicating units. As required at site". Capacitor make : ABB / Siemens / Neptune	SET	1		
	6 NOS of capacitor duty contactors				
	1 NOS 10 KVAR MPP type heavy duty capacitor banks along with 1 nos 32 A TP MCB of 10 KA service breaking capacity with heavy duty solid detachable neutral link.				
	2 NOS 5 KVAR MPP type heavy duty capacitor banks along with 2 nos 25 A 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 16 A TP MCB of 10 KA service breaking capacity with heavy duty solid detachable neutral link.				
	1 NOS 1 KVAR MPP type heavy duty capacitor banks along with 1 nos 10 A TP MCB of 10 KA service breaking capacity with heavy duty solid detachable neutral link.				
14	PUBLIC ADDRESS SYSTEM				
1	Supply and Fixing of ceiling speaker (6W) along with laying & wiring of 1.5 sq mm twin core shielded 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.	Nos.	12		
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	0		
b	Power amplifier, 70 watts with output transformer etc. complete. AHUJA / PLENA Range or as approved by the bank capable of taking from USB also.	NOS	1		
c	6 U equipment rack complete with monitor unit, speaker, power supply control etc. President make suitable for 1 X 100 watts amplifier system with all terminating set up.	NOS	1		
	TOTAL FOR ELECTRICAL WORKS				
	Note: Estimated Electrical BOQ as above are revised based on the comments received from SBI Electrical engineer on 15th March 2023. The changes are highlighted with grey colour for your reference.				GST extra