

ELECTRICAL BOQ - SBI ULHASNAGAR REGENCY LANDMARK BRANCH

ARCHITECT - VASTUKALA					
				Date -	
Sr. No.	Description	Qty	Unit	Rate	Amount
ELECTRICAL WORKS OF BRANCH					
NOTE: - Approved Brands (Schneider /Hager/Siemens/Legrand)					
A	Supply, installation, testing & commissioning of 125A, 4P, 25kA, MCCB with Thermal Magnetic release, of approved make with over load (O/L), short circuit (S/C) & Earth Fault (E/F) protection, 415 V 3 phase, 50 c/s AC23 duty on MS angle iron frame fabricated out of 40 mm x 40 mm x 5 mm MS angle duly painted with cable end boxes, earthing, name plate danger board fixing accessories etc. (Schneider / Hager / Siemens / Legrand make as approved by client / consultant)	1.00	No		
1	MAIN PANEL & DISTRIBUTION BOARDS				
1.1	MAIN PANEL				
1.1.1	Main Panel (4WAY VTPN DB):-				
	- 1 no. 63 Amp.4P MCCB incomer				
	- 1 nos. 40/32 Amp. TP MCB outgoing				
	- 3 nos. 25/20 Amp. TP MCB outgoing	2.00	No		
1.1.2	DB				
	- 1 no.125 Amp.4P MCCB incomer				
	- 2 nos. 63 Amp. 4P MCCB outgoing	1.00	No		
1.2	DISTRIBUTION BOARDS				
1.2.1	Suply and installation of 4 way TPN Lighting DB (double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral.with provision for the following.				
i	S&I INPUT- 40A 4P MCB - 1 NO with 30mA, ELCB -1NO				
ii	S&I OUTPUT - 6/10/16/20/25 A SP MCB - 12 NOS.				
	Full Set as above	1.00	Nos		
1.2.2	Suply and installation of 4way TPN DB for AC power Distribution Board (double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral with provision for the following.				
i	S&I INPUT- 63A 4P MCB - 1 NOS with 125mA, ELCB -1NO				
ii	S&I OUTPUT - 6/10/16/20/25 A SP MCB - 12 NOS.				
	Full Set as above	1.00	Nos		
1.2.3	UPS MAIN DB				
	Suply and installation of 10-way, SPN, Double Door, Metal type, with Plain / Transperant Door (As approved by client / consultant / architect), UPS Power Distribution Board (UPS PDB), surface / flush mounted on wall, interconnected wiring complete with earthing lugs, including DB wiring dressing with ferruling, termination of circuits with ping type copper lugs, etc. housing following switchgears : (Schneider / Hager / Siemens / Legrand make as approved by client / consultant)				
i	1 no., 40A, DP MCB as incomer				
	3 nos, 32A DP, MCB's as outgoing and spare with dummy				
	2 nos, 16/10/8A SP, MCB's as outgoing and spare with dummy				
	Full Set as above	1.00	Nos		
ii	1 no., 40A, DP MCB as incomer				
	1 nos, 16/20/25A, DP, MCB's as outgoing				
	6 nos, 16/10/8A, SP, MCB's as outgoing				
	Full Set as above	1.00	Nos		

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iii	Supply and installation of 8way SPN DB for ATM Distribution Board (double door inside ATM) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral with provision for the following. (For Lighting & AC and ups output)					
	1 no., 32A, DP MCB as incomer					
	6 nos, 20/16/10A, SP, MCB's as outgoing					
	Full Set as above	2.00	Nos			
1.2.4	Supply & Installation of 40A, DP MCB with suitable size enclosure for terminating supply to UPS i/p - o/p alongwith all necessary hardware & accessories, etc. complete as required. (Schneider / Hager / Siemens / Legrand make as approved by client / consultant)	1.00	Nos			
1.2.5	Supply & Installation of 63A, FP MCB with suitable size enclosure for terminating supply to UPS i/p - o/p alongwith all necessary hardware & accessories, etc. complete as required. (Schneider / Hager / Siemens / Legrand make as approved by client / consultant)	1.00	Nos			
1.2.6	Supply and Installation of Digital Timer unit for Signage board (L & T/ SIEMENS/SCHINDLER make only)	1.00	Nos			
1.2.7	Supply & Installation of 15A modular plug-socket of approved make including power circuit of 3x2.5 sq. mm FRLS copper flexible wires directly taken from the relevant DB through PVC conduits for termination of strong room/at top of entrance of Branch/main electrical power supply into 15A modular plug socket mounted / installed for the sign board alongwith flexible cable laid through flexible metal/PVC conduit for connection into the sign board / DB including all necessary hardware & accessories, etc. (Schneider / Hager / Siemens / Legrand make as approved by client / consultant)	5.00	Nos			
1.2.8	Supply & Installation of 20/32A, DP MCB, box with 20A, metal clad / modular plug-socket including power circuit of (2x4 + 1x2.5) sq. mm FRLS copper flexible wires directly taken from the relevant DB through PVC conduits for room A/C including all necessary hardware & accessories, etc. (Schneider / Hager / Siemens / Legrand make as approved by client / consultant)	4.00	Nos.			
1.2.9	S & I of 63A - 4Pole MCB in sheet metal Weather proof IP-65 enclosure (for outdoor 3phase Cassette AC unit)	2.00	Nos.			
1.3	Supply and installation of 25 KVAR APFC panel, floor/wall mounted front operated totally enclosed vermin proof, indoor non-drawout-cubicle type power panel fabricated out of 2mm thk CRCA sheet having gasketed hinged cover on each cubicle fully powder coat					
a	1No.63A,TP, MCCB as incomer					
b	1 nos. of 50A 3P contactor & 2 no. 25A 3P contactor					
c	1 nos. 40A MCB & 2 no. 25A MCB					
d	1 Nos. 10, 2No. 5 KVAR, 1 nos 3 KVAR & 1 Nos 2 KVAR of CAPACITORS					
	Suitable bus bar for connecting the contactors and MCB's, Capacitors					
e	1 no. 5 step APFC relay suitable for above arrangement					
f	ON/OFF/TRIP push button for each capacitor					
g	ON/OFF/TRIP indication lamp for each capacitor					
h	1 Set, RYB, indicating lamps with resistors and fuses for incomer.					
	Full Set as above	1.00	SET			

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2.0	CABELS / MAINS				
2.1	Supply & Installation of 1100V grade armoured cable having sector / circular shaped aluminium / copper conductor PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armoured and overall extruded PVC sheathed conforming to IS: 1554, laid on wall / ceiling using GI clamps & spacers as per route shown at site and further as directed by Consultant at site in the following sizes :- (Make - Polycab / Finolex / CCI / RR.)				
	NOTE :- All Armoured cables shall be provided with temporary labelling at every 5mtrs & then finally with metal identification tags showing the size & the location from/to the respective Panel / DB, at both the ends.				
2.1.1	3 1/2 C x 70 Sq.mm Aluminium Armoured cable with 1 runs of 8 SWG GI bare wire (From Meter Room to Main SFU to Main MCCB in Main Electrical LT Panel, location as approved in the proposed premises)	50.00	Mtr		
2.1.2	4C x 10 Sq.mm Copper Armoured cable with 1 runs of 12 SWG GI bare wire (Main Electrical LT Panel to LDB+PDB+ACDB - 1 no.s, location as approved / required as per HVAC requirements)	70.00	Mtr		
2.1.3	3C x 6 Sq.mm Copper Armoured cable with 1 runs of 12 SWG GI bare wire (UPS Out-put to Main UPS DB)	100.00	Mtr		
2.1.4	3C x 2.5 Sq.mm Copper Armoured cable with 1 runs of 12 SWG GI bare wire (AC outdoor / indoor units for Splits)	150.00	Mtr		
2.1.5	4C x 16 Sq.mm Copper Armoured cable with 2 runs of 12 SWG GI bare wire (Main Electrical LT Panel to LDB+PDB+ACDB - 1 no.s, location as approved / required as per HVAC requirements)	50.00	Mtr		
2.1.6	3runs x 10 Sq.mm Copper flexible lead wire through flexible PVC conduits (UPS i/p, o/p connections, etc.)	50.00	Mtr		
2.2	Supply & Installation of end termination of above mentioned cables including compressed type brass glands, crimping type copper lugs, insulation tape etc. as required complete with earthing of glands in following sizes :-				
2.2.1	3 1/2 C x 95/70 Sq.mm Aluminium Armoured cable with 2 runs of 8 SWG GI bare wire	2.00	Nos.		
2.2.2	4C x 10 Sq.mm Copper Armoured cable with 1 runs of 12 SWG GI bare wire	12.00	Nos.		
2.2.3	3C x 6/4 Sq.mm Copper Armoured cable with 1 runs of 12 SWG GI bare wire	16.00	Nos.		
2.2.4	3C x 6 Sq.mm Copper flexible lead wire through flexible PVC conduits (UPS i/p, o/p connections, etc.)	20.00	Nos.		
3.0	INTERNAL LIGHTING & POWER WIRING				
3.1	Supply & Installation of concealed / ressed / surface light point / fan point / call bell point wiring using 600V FRLS grade 3R (P+N+E) x 1.5 Sq.mm copper conductor PVC insulated wires (with proper R,Y,B color code) pulled through heavy gauge PVC conduits laid concealed over false ceiling or in wall chases or on the ceiling in case of an open ceiling including 3R (P+N+E) x 2.5 Sq.mm circuit wires from the relevant DB and also including 2.5 sqmm green color copper earth wire and approved make modular type switch plate, switches, MS concealed back box, etc. as required & as approved by the consultant. (Each circuit shall not feed more than 8 points OR 800 watts as per following configuration.) (The item rate shall include Lighting / Raw / UPS Power Circuit wiring from relevant DB to the switch board with 3Rx2.5 Sq.mm FRLS wires & from switch board to next switch board OR to the first light point / primary point / full point)				
3.1.1	Primary light points including the cost of 5A switch	50.00	Pts		
3.1.2	Secondary light points looped from the above point	45.00	Pts		
3.1.3	5A plug point mounted on SWITCH BOARD itself including interconnection etc as required	15.00	Pts		
3.1.4	Bell point comprising of wiring as mentioned above including Remote/ Electronic Call bell (as approved by client / consultant), Bell push & Bell indicator.	1.00	No.		
3.1.5	Wall / Ceiling Fan Point including 120W Electronic type step regulator & fan hook as required	10.00	Pts		
3.1.6	Exhaust fan point consisting of 5A socket near fan and switch on light switch board	5.00	Pts		
3.1.7.	Supply & installation of 15A Plug Point directly taken from DB for Pantry / geyser / zerox / printer / fridge, etc. including 3 x 2.5 sqmm FRLS grade circuit wires directly taken from the relevant DB and also including 2.5 sqmm green color copper earth wire all laid through PVC conduit with all necessary hardware & accessories, etc. (UPS / Raw Power)	10.00	Pts		

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Sr. No.	Description	Qty	Unit	Rate	Amount	
3.1.7.a	Supply & installation of Secondary 15A Plug point with wiring on switch board or looped from above 15A primary point including 3 x 2.5 sqmm FRLS grade circuit wires directly taken from the relevant DB and also including 2.5 sqmm green color copper earth wire all laid through PVC conduit with all necessary hardware & accessories, etc. (UPS / Raw Power)	5.00	Pts			
3.2	5A plug point as primary point with 3x2.5 sq.mm circuit independent mounted on wall / partition / on work station, etc. (UPS / RAW Power) (Only three workstations / independent mounted raw power points shall be looped in one raw power circuit. Whereas in measurements out of three workstations / independent mounted, two no.s of 5A s/s raw points will be considered as secondary points & 1 no. of 5A s/s raw point will be considered as primary point.)	20.00	Pts			
3.2.1.	Secondary 5A Plug point with wiring on switch board or looped from above 5A primary point (UPS / RAW Power) (Only three workstations / independent mounted raw power points shall be looped in one raw power circuit. Whereas in measurements out of three workstations / independent mounted, two no.s of 5A s/s raw points will be considered as secondary points & 1 no. of 5A s/s raw point will be considered as primary point.)	10.00	Pts			
3.3.	Supply & Installation of point wiring for UPS or stabilized power plug points on workstations / table for computers using 3C X2.5 Sqmm FRLS grade copper conductor PVC sheathed white color flexible cable pulled through already laid floor raceways and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 4 nos of 5A, 2/3 pin sockets below table top & 1 No., 15A Switch above table top, wired together forming one point. (ONLY Two tables served by one circuit from DB)	5.00	Pts			
3.3.1	Supply & Installation of point wiring for UPS or stabilized power plug points on workstations / table for computers using 3C X2.5 Sqmm FRLS grade copper conductor PVC sheathed white color flexible cable pulled through already laid floor raceways and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 3 nos of 5A, 2/3 pin sockets below table top & 1 No., 15A Switch above table top, wired together forming one point. (Primary point)	20.00	Pts			
3.3.2	Secondary point with wiring looped from above primary point for UPS Power (Only three workstations / independent mounted raw power points shall be looped in one raw power circuit. Whereas in measurements out of three workstations / independent mounted, two no.s of 5A s/s raw points will be considered as secondary points & 1 no. of 5A s/s raw point will be considered as primary point.)	5.00	Pts			
3.3.3	Wiring for Signages with 3R x2.5 Sq.mm, PVC insulated copper conductor flexible cable to be connected to the SPN D/D of required capacity consumer unit.	1.00	Pts			

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4.0	FLOOR TRENCH BOXES / CABLE TRAYS				
4.1	Supply and laying Raceways / Conduits (for under floor trenches / On trays) on existing flooring. Raceways / conduits shall be fixed to the flooring with GI clamps for finished levels as per the site conditions or through partitions with all accessories. The rate shall include preparation of trenches of required sizes by carefully removing the malwa on existing floor for laying Raceways/conduits for power, data, telephone cables etc. The depth of the trenches shall be at least 2 inches from the finished floor level or upto RCC of the slab. The rate shall include the cost of the Raceways/conduits. The rate shall also include the activity of clearing the debris generated from the preparation of trenches & filling the same with PCC. (FOR THE PORTION WITHOUT FALSE FLOORING)				
4.1.1	25 mm heavy guage PVC conduit to be laid cancelled / surface in / on wall / floor as required as per the above mentioned specifications	250.00	Mtr		
4.2	Supply & Installation of floor junction boxes with removable top cover for above raceways, of following sizes , fabricated out of M.S. sheets, fully powder coated with removable M.S. / S.S. screwed cover plates on all four sides for blocking the entry into the junction box. All the junction boxes to be (with stud) 'properly earth - bonded with the raceways pipe using 12 SWG Copper bare wire as directed at site.				
4.2.1	size 150mm x 150mm x 50mm x 2.5mm thick	0.00	Nos		
4.2.2	size 250mm x 250mm x 50mm x 2.5mm thick	15.00	Nos.		
4.2.3	size 300mm x 300mm x 50mm x 2.5mm thick	2.00	Nos		
5.0	LIGHTING FIXTURES(Philips/Wipro/Thorn/Crompton)				
	Supply & Installation of lighting fixtures with lamps as per the details below including necessary hardware such as clamps, nuts, bolts, nails, screws and suspension rods as required for fixing the fixtures in position as directed by architect / consultant / client.				
	Note :- All Light Fixtures shall be approved by the Client / Architect / Consultant before placing order to the Light Fixture Vendor / Supplier. All Light Fixtures shall be of Philips / CG / GE / Bajaj/ Wipro make only unless & otherwise other makes are specified. Client / Architect / Consultant reserves right to approve / select final Light Fixtures from any make as required.				
5.1	LED Type Light fixture suitable for Modular Ceiling				
5.1.1	Supply & Installation of (40/36W) (2' X 2') LED Mirror optic Light fixture. The fitting shall be surface mounted / to be hanged from the ceiling at the height approved by architect. (PHILIPS Cat No. :- RC380B LED36S or equivalent category & model in Bajaj / CGL/ GE/ Wipro make as approved by client / architect / consultant.)	40.00	Nos		

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5.2	LED Type Light fixture suitable for Modular Ceiling / Plain Ceiling				
5.2.1	Supply & Installation of (15 W) LED Spotlight flush mounted Light fixture. (PHILIPS Cat No. :- DN193 LED 12S or equivalent category & model in Bajaj / CGL / GE/Wipro make as approved by client / architect / consultant.)	50.00	Nos		
5.3	Cove / Indirect Lighting & Other Area Lighting				
5.3.1	S & I of (28 W) (4') LED Tubelight. (Philips Cat No. - BN021 LED 20S or equivalent model in CG / GE / Bajaj make)	5.00	Nos		
5.3.2	S & I of (14 W) (2') LED Tubelight. (Philips / CG / GE / Bajaj/Wipro make)	2.00	Nos		
5.3.3	S & I of Wall mounted exhaust fan (9" dia.) of decorative plastic body and blade with louvers on the outside of approved make (CROMPTONS,GEC,USHA, BAJAJ)	4.00	Nos		
5.3.4	S & I of approved make BLDC Ceiling Fan (900 dia / 1200 mm dia) (BEE 5 star rated) (Colour :- White / Brown / Ivory as approved by client / architect / consultant) alongwith all required hardware & accessories, etc. (CROMPTONS,GEC,USHA, BAJAJ)	7.00	Nos		
5.3.5	LED Rope / Strip Light 1watt each (phillips/Wipro/Havells/crompton) including the cost of transformer, accessories etc. complete. at banking hall for cove lighting.	50.00	RMT		
5.3.6	S.I. of 18 mm Concelled/ Surface Led Profile light with driver (phillips/Wipro/Havells/crompton) as per Architect selection	25.00	RMT		
5.3.7	S.I. of 25 mm Concelled/ Surface Led Profile light with driver (phillips/Wipro/Havells/crompton) as per Architect selection	25.00	RMT		
5.3.8	S.I. of Decorative light with driver hangeretc. (phillips/Wipro/Havells/crompton) as per Architect selection(Basic price Rs. 12,000/-)	1.00	RMT		
5.3.9	S.I. of Decorative light with driver hangeretc. (phillips/Wipro/Havells/crompton) as per Architect selection(Basic price Rs. 6,000/-)	2.00	RMT		
6	EARTHING				
6.1	Supply & Installation of earth pit comprising of 600mm x 600mm x 3mm thick copper plate buried at a minimum depth of 1.5 meter including necessary materials like charcoal, salt etc. as required conforming to BIS standards having brick masonry chamber with hinged cover and watering arrangement. (Earth Pit - 1) (Dedicated UPS Earthing Pit)	1.00	Nos		
6.2	Supply & Installation of earth pit comprising of 600mm x 600mm x 6mm thick GI plate buried at a minimum depth of 1.5 meter including necessary materials like charcoal, salt etc. as required conforming to BIS standards having brick masonry chamber with hinged cover and watering arrangement. (Earth Pit - 2) (Electrical Earthing Pit)	1.00	Nos		
6.3	Supply & Installation of copper /GI earthing wires/strips in following sizes including all necessary hardware & accessories, etc.:-				
6.3.1	25 x 5 GI. Strip through PVC sleeve (Electrical Earthing) (From Electrical Earthing Pit to Main Electrical Earthing Busbar)	75.00	Mtrs		
6.4	S/I/T/Commissioning of 1 No. of 10 Sq.mm. single core PVC flexible copper wire for UPS in 25mm PVC conduit with all required accessories etc.	50.00	Mtrs		
6.5	Supply & Installation of (32 x 3) mm of 300mm length Cu. earthing bus with enclouser with sufficient no. of hole for connecting earthing wire with necessary accessories, hardware, etc. (UPS Earthing BUS)	1.00	Nos		

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7	MUSIC CUM PUBLIC ADDRESS SYSTEM				
7.1	Supply, Installation, Testing, Commissioning of point wiring for music cum PA system comprising of 2x 1.0 sqmm stranded, copper conductor, flexible PVC insulated and PVC Sheathed wire pulled through 20 mm dia. PVC heavy gauge conduits and looped from one speaker to other and to the volume control switch wherever applicable and finally terminated at tagblock.	5.00	Nos		
7.2	Supply, Installation, Testing, Commissioning of 8" dia music speakers to be flushed mounted on false ceiling similar to BOSCH / approved equivalent make. All speakers to be equipped with matching transformer for direct connection to 100v output line	5.00	Nos		
7.3	Supply, Installation, Testing, Commissioning of volume control - cum ON - OFF switch flush mounted on wall along with other electrical switches. The size and plate of the regulating knob should match with other switches nearby.	1.00	Nos		
8	TELEPHONE				
8.1	Supply & Installation of Twin RJ-11 telephone socket outlet point along with PVC back box including 2 pair telephone cable from Telephone MDF upto individual Telephone socket outlet through already laid trenches / raceways / conduits including all necessary hardware & accessories, etc. complete as required.	15.00	Nos		
8.2	Supply, installation, testing and commissioning of indoor type telephone Main Distribution Frame (MDF) / Box with suitable S.S. frame for mounting tag module, cable, wires and incorporated in 16 SWG MS box with proper lockable cover. The box should be fixed on wall with suitable fasteners including painting & earthing. This also includes fixing the cable, distribution chart sufficient space for the cables, wires etc. to be provided in the box for :- 20 pair MDF with Krone module including all hardware & accessories etc complete as required.	2.00	Nos		
8.3	Supply & Laying of 20 pair armoured telephone cable through heavy gauge pvc conduit including all necessary hardware & accessories, etc. 20-pair	50.00	mtr.		
9	TEMPORARY LIGHTING				
9.1	Provision of Temporary lighting and switch boards during the time period of work execution for all contractors with all required connections, material complete.	1.00	Job		
Grand Total of Electrical work (excluding GST)					-
Discount if any					
Grand Total of Electrical work (excluding GST) after discount					-
CGST @ 9%					-
SGST @ 9%					-
Grand Total of Electrical work (including GST)					-
NOTE:- Cost exclusive of GST, and inclusive of all other taxes, Transportation, loading, unloading expenses, Excise Duty, Sub-Staff Overtime etc. without any extra charge. Shifting of existing furniture along with loaded steel / wooden cupboards, safe & re-arranging the same till Virtual completion certificate is issued by the Architect. All the new flooring / furniture shall be covered with POP/ marine paper, thick plastic sheet or role to safeguard the furniture, till completion of Project.					
I CONFIRM the above conditions along with estimate quoted by me					
CONTRACTOR FULL NAME & DETAIL ADDRESS					
SIGNATURE OF CONTRACTOR WITH RUBBER STAMP					