

TENDER FOR ELECTRIFICATION WORK OF STATE BANK OF INDIA, BROADWAY BRANCH ERNAKULAM, (NEW PREMISES IN A.O. ANNEXE BUILDING) - FF AND SF

Item	Particulars.	Qty.	Unit	Rate.	Rate in words	Amount
1	DISTRIBUTION BOARDS					
1.01	VDB FLOORS	3	No			
	Supply erection testing and commissioning of wall mounted type double door dust and vermine proof 8 way TPN MCB DB with cable termination box concealed on wall comprising the following 63 A, 4P, 30 mA RCCB and MCB isolator as incomer and 32A,TP MCB - 2 NOS, 6 -20A MCB –18 nos as out going for lighting DBs (All MCB'S are 10 KA)					
1.02	UPS PANEL 1	1	No			
	Supply erection testing and commissioning of wall mounted type double door dust and vermine proof 6 way SPN MCB DB concealed on wall comprising the following 1 phase 2 pole 63 A MCB Isolator-1 no as incomer and 40 A DP, MCB – 2 nos. as out goings to UPS DB's.(All MCB'S are 10 KA) - for UPS DB					
1.03	UPS DB for computers	2	No			
	Supply erection testing and commissioning of wall mounted type double door dust and vermine proof 12 way SPN MCB DB concealed on wall comprising the following 1 phase 2 pole 40 A ELCB + MCB (High Immunity Type)-1 no .,6 A MCB – 10 nos.to distribute U P S power supply.(All MCB'S are 10 KA)					
2	Panel Boards					
	Design fabrication, supply, installation, erection testing and commissioning of the following cubicle type fully compartmentalised dust tight, vermine proof L.T. Switch boards fabricated out of 2.032 mm thickness CRCA sheet for main panel and 1.626mm thickness CRCA sheet for sub panels, powder coated as per standards and having appropriate rating busbars & earth bus and of approved shade. The busbars should be of suitably rated TPN Aluminium having the specified normal and short circuit capacities and should be insulated with heat shrinkable colour coded PVC sleeves and supported by DMC/SMC pillar/finger type busbar supports.Design and fabrication of the switch boards should be as per standards of State electrical ispectorate, K.S.E.B, and Bureau of Indian standards.The board shall be completed with earth bus of adequate capacity and double earth connection to all switches. Internal rigid connection etc. complete with hinged doors, name plates, heavy duty rubber gaskets, removable gland plates.Panel drawings should get prior approval from the consultants before fabrication.(Cable entry according to site conditions)					

2.1	SSB AO ANNEXE	1	No			
	Incomer : -					
	125 A, 4pole,25kA MCCB- Microprocessor release) SET AT 100A WITH E/F, O/c, Shunt Trip - 1 no					
	Digital Power Analyser with provision to measure V,A,KW,KVAR,KVA,PF,THD,KWHMD etc with CT.Model no CVMNRG 96 IT FRS485C OF CIRCUITOR MAKE - 1 No					
	125A , TPN Aluminium Busbars as per ISS					
	Outgoing					
	63/50 A, 3 pole MCCB with FD(withTM release 25 KA breaking capacity) - 8 No.					
2.2	Supply and installation of 40A FP MCB isolator with enclosure and giving connections near AC units and UPS	3	No			
3	CABLE LAYING AND TERMINATIONS.					
	Supply laying and dressing of 1.1 KV grade PVC insulated armoured UG cable concealed or on wall /ceiling /trench/cable rack, with clamps etc including back filling of trenches if necessary.					
3.01	3.5 core 50 sq mm AYYFY (Aluminium conductor)	120	Mtr			
3.02	4 core 16 sq mm AYYFY (Aluminium conductor) To VDB FROM SSB	50	Mtr			
3.03	4 core 10 sq mm AYYFY(Aluminium conductor)	50	Mtr			
3.04	4 core 6 sq mm copper conductor UG cable from SSB TO UPS	35	Mtr			

3.05	2 runs of 6 sq mm and one run of 4sq.mm PVC insulated cu wire in PVC conduit (UPS to UPS panel)	10	Mtr			
3.06	2 runs of 4 sq mm and one run of 2.5 sq.mm PVC insulated cu wire in PVC conduit (UPS panel to UPS DB1 & UPS DB 2)	80	Mtr			
	End termination of the above cables using single compression type cable glands and heavy duty tinned copper crimping type cable sockets including cable earthing.					
3.07	4core 50 sq.mm aluminium cable	2	No			
3.08	4core 16sq.mm aluminium cable	4	No			
3.09	4core 10 sq.mm alu cable	4	No			
3.10	4core 4 sq.mm copper cable	2	No			
	Supply and laying following earth strips / wires					
3.11	No 10 SWG copper conductor (2 runs along with cables to LDBS ,, ACSSB &PDBs) from earth bus	200	Mtr			
3.12	Supply all materials and providing one earth bench 25 x 3mm of 30cms long with necessary holes for earthing connections.	3	No			
4	WIRING FOR LIGHT, FAN, PLUG SOCKETS etc.					
4.01	Supply all materials and wiring through wall floor etc, concealed/surface as per colour code with 1.5sq mm P V C insulated FRLS stranded copper wire for the points and 1.5 sq mm P.V.C.insulated green colour FRLS stranded copper wire as continous earth for points, with independent earth wire for each circuit, through ISI grade 20 / 25 mm PVC conduit,(Medium Grade) includingcost of circuit wiring with all accessories as per IS 9537 part II and installation of factory made MS boxes, 2 plate model modular switches and three plate ceiling rose / connectors etc of approved make for light/ exhaust fan/ calling bell etc .Number of cables in conduit should be limited to the IS standards and as per the conditions laid down in the tenderDB etc.PVC bush to be provided in the conduits in switch boxes / DB to protect the insulation. The cost includes chipping the floor/wall etc and replastering etc, if required.The average length of light/calling bell point from switch board 15 mtr	28	No			
4.02	Same as item no 3.01 above but for 2 lights controlled by one switch	32	No			
4.03	Same as item no3.01 above but for 3 lights controlled by one switch	3	No			
4.04	Same as item no 3.01 above but for 4 lights controlled by one switch	2	No			
4.05	Wiring Same as item no 3.01 above using 3 runs 1.5 sq mm PVC insulated stranded copper wire for 6 A 3 pin plug points(Raw Power) at indipendent locations and on tables.	655	Mtr			

4.06	Supply all materials and installation of 2 plate modular 6 A 3 pin plug with switch and indicator. Including the cost of chipping replastering etc if required(.raw power)	6	No			
4.07	Supply and installation of 6A 3 pin plug with switch in combined position in the existing lighting switch boards switch boards with all accessories..	6	No			
4.08	Supply all materials and installation of 2 plate modular 6/16A 5pin plug with switch and indicator. Including the cost of chipping replastering etc if required.(raw power and on wall/ Partitions).	5	No			
4.09	Supply all materials and wiring through wall / floor etc. recessed/suface as per colour code with 2 runs of 1.1 KV grade 2.5 sqmm PVC insulated FRLS copper wire for phase and neutral and 1.5sq.mm green colour for earth through ISI marked 20 mm PVC conduit with all accessories for 16/6 A (5pin)power plug socket. / AC POINT . Including the cost of chipping replastering etc if required.The rate includes the cost of complete wiring from DB to the point.	250	Mtr			
4.10	supply all materials and providing calling bell for cabin with one number calling bell with led indicators and bell push near table with accessories.	1	No			
4.11	Supply all materials and providing 16A master control switch having indicator for cabin lights / fans.	1	No			
4.12	Same as item no 3.01 above but for 1 light and 1 no exhaust fan controlled by one switch	5	No			
4.13	Supply all materials and installation of 2 plate modular 25A DP switch and indicator. Including the cost of chipping replastering etc if required.(For AC).	1	No			
5	COMPUTER POWER STATIONS.					
5.01	Supply all materials and Installation of 6nos of 6A 3 pin plug socket controlled by 16A switch (2 plate modular type) in metal boxes.(3 stations in one ckt) in wall/ Partitions/ Tables/ recessed/ surface .These 4 sockets are to be fixed under the table controlled by the 16A switch seperatly fixed above the table to operate the same	14	No			
5.02	Supply all materials and wiring through wall / floor etc. recessed/suface as per colour code with 2 runs of 1.1 KV grade 2.5 sqmm PVC insulated FRLS copper wire for phase and neutral and 1.5sq.mm green colour for earth through ISI marked 20 mm PVC conduit with all accessories for 16 A /6A plug socket. . Including the cost of chipping replastering etc if required.The rate includes the cost of complete wiring from DB to the point.	327	Mtr			

6	SUPPLY AND INSTALLATION OF LIGHT FITTINGS, CEILING FAN .EXHAUST FAN ETC.					
	Supply installation giving electrical connection testing and commissioning of the following light fittings including the cost of materials for fitting connection through 20 mm flexible metal conduit.The light fittings should be the approved make and approved model as per the list attached. The scope includes the cost of control gears, fixing frames on ceiling and accessories complete. The warrantee period and date of all fittings should be neatly written with enamel paint on each fitting as per the direction of officer in charge. The warrantee certificate along with details should be handed over to bank on completion of work.					
6.01	Supply and installation LED down Lights - Philips make Green LED Ultima Square DN097B LED10S -4000 PSU WH with recess mounted fittings with fixing frame and All accessories and driver etc . 10/12W, Recess Mounted (with 2years warrantee.) Make, Philips,LT,OSRAM(The model should conform to the specification)					
a	Supply	40	No			
b	Installation	40	No			
6.02	LED Batten 21 w , 4ft - high quality diffuser suitable for wall mounting with all accessories. Philips TMC 501P2XT22WP3242					
a	Supply	32	No			
b	Installation	32	No			
6.03	Supply and installation battern holder with 9watts LED lamp					
a	Supply	18	No			
b	Installation	18	No			
6.04	Supply and installation LED strip Lights - Philips make 5meter along with driver and all accessories.Power 8watts per meter, power factor >0.9, and THD<10%. Rated life of L70 @ 30,000 hours, 3000K (with 2years warrantee.) Make, Philips, LT, OSRAM (The model should conform to the specification)					
a	Supply	60	Mtr			
b	Installation	60	Mtr			

6.05	LED Light fitting of 35- 40Watts range Elegantly designed pressure die cast aluminum housing body with extended heat sink for better thermal dissipation. Injection molded diffuser is made of special polycarbonate material for delivering effective light output without any dark or bright patch. In built electrical protections like over voltage short circuit, over load, wiring for additional safety precautions with high efficiency low power loss driver. recess mounted fittings of size 60cms x 60cms with driver etc complete with ceiling fixing frame and all accessories (light fittings set should have 2 years warrentee, 3600 Lumens) Make, Philips (Green square RC140B LED 29S-6500PSE WH), LT, Osram(The model should conform to the specification)					
a	Supply	16	No			
b	Installation	16	No			
6.06	Supply and installation of 300 mm Continuous duty exhaust fan , 900 rpm, minimum 19 cmm air delivery for toilet with 1 year warrentee.					
a	Supply	7	No			
b	Installation	7	No			
6.07	Supply at site and installation of 400 mm wall mounted fan of approved make	14	No			
6.08	Supply and installation of 1200mm ceiling fan with double ball bearing with 5star rating with 1 year warrentee					
a	supply	4	No			
b	Installation	4	No			
SUB TOTAL - I						
7	TELEPHONE					
7.01	Supply all materials and nstallation of telephone jack RJ 11 (modular 2 plate type) mounted in metal boxes including chipping the floor plastering etc if necessary.	14	No			
7.02	Supply all materials and nstallation of twin telephone jack RJ 11 (modular 2 plate type) mounted in metal boxes including chipping the floor plastering etc if necessary. Supply all materials and nstallation of twin telephone jack RJ 11 (modular 2 plate type) mounted in metal boxes including chipping the floor plastering etc if necessary.	2	No			

7.03	Supply all materials and wiring using 2 pair telephone cable 0.5 sq.mm in 20 mm PVC conduit through wall/partitions/ floor/ recessed/ surface from the exchange including chipping the floor plastering etc if necessary.one separate cable for each point.No of cables in one conduit limited to three.Supply all materials and wiring using 2 pair telephone cable 0.5 sq.mm in 20 mm PVC conduit through wall/partitions/ floor/ recessed/ surface from the exchange including chipping the floor plastering etc if necessary.one separate cable for each point.No of cables in one conduit limited to three.	375	Mtr			
7.04	Supply and installation of KRONE connector telephone junction box of 20 pair	1	No			
7.05	Supply and laying 20 pair (0.5 mm) telephone cable from 100pair krone to 50pair krones including with all accessories	125	Mtr			
	SUB TOTAL - II					
8	Speakers					
8.01	Supply all materials and wiring as per colour code with 1.5 sq mm P V C insulated FRLS stranded copper wire 2 runs through ISI grade 20 / 25 mm PVC conduit for speakers.(From the amplifier at ground floor)	250	Mtr			
8.02	Supply and providing 6 watt recessed mounted type speakers, CS663T Ahuja make with LINE MATCHING TRANSFORMER .	12	No			
8.03	Supply and providing 6 watt wall mounting type speakers, WS661T Ahuja make with LINE MATCHING TRANSFORMER .	1	No			
8.04	Supply and installation of TOGGLE SWITCH with all accessories for isolating speakers in cabins.	1	No			
8.05	Supply and fixing of metal box and end connectors to connect speakers to the amplifier	1	No			
	SUB TOTAL - III					
9	Miscellaneous					
9.01	Supply all materials and providing identification on panels, DB's, DB outgoing MCB's ,Switch boards, UPS, Lights, fans arrangements etc. using paint & stencils as per direction of Bank Authorities including supply and providing of framed laminated schematic diagram of the installation.	Ls				
9.02	Rearranging the existing fire pump cable connection from the 125A SFU of the MSB to the near by Utility panel spare 63SFU, necessarycost for cable extension with straight joint to the existing cable if required for the 10/16sqmm UG cable is to be included.	Ls				

10	Departmental Charges					
	Charges for regularization of the electrical installation including DG set and connected works at KSEB and Electrical Inspectorate including all incidental expenses and connected paper works. Contractor shall prepare necessary drawings without any additional charge, laminate one copy of it and display in the electrical room. Fee paid to the Govt. departments in this regard shall be reimbursed by the bank.	Ls				
	Sub Total - IV					
	Total (I+II+III+IV)					
	GST for the above @.....					
	GRAND TOTAL (including GST)					
	In Words:					

Signature(S) of Contractor(S)