

**BOQ of Tender for Supply, Installation, Testing & Commissioning of internal electrification work
At State Bank of India, IIM KOZHIKODE Branch – Existing premises**

Sl. No	Description	Unit	Qty	Rate (Rs)	Amount (Rs)
1a	SITC of factory made 3 ph.VTPN DB (3PH input and 1ph output to suit site requirement) double door with 40A 4P MCB + 100mA ELCB as Incomer and three nos 20 A , three nos. 16A and 6nos. 6/10A SP MCBs as out-goings for single phase loads	no	1		
b	SITC of factory made 3 ph.50A,4way VDB double door with 50A 4P MCCB as Incomer and two nos 25 A 3P MCB and remaining 6/ 10/16/20A SP MCB as out-goings for single phase loads (complete) (optional; to be supplied as decided during site meeting at the discretion of the Bank)	no	1		
c	SITC of single 8way,40A DB double door with 40A ,30mA RCBO as Incomer a 6/ 10/16/20A SP MCB as out-goings for single phase loads (complete) (optional; to be supplied as decided during site meeting at the discretion of the Bank)	no	1		
2	SITC of wall mounting type double door, dust & vermin proof 8 way SPN MCB DB comprising one 2 pole 25A, 30 mA high immunity type RCBO suitable for UPS operation as in comer and 6-16 A SP MCB outgoings for UPS output (complete).	no	1		
3	SITC of wall mounting type double door, dust & vermin proof 4 way 3 phase, MCB DB comprising one 3 phase 16/25 A 4P 30 mA RCBO as incomer and 6-16 A SP MCB (12 nos) outgoings.(LDB)	no	1		
4a	SITC of Surge OBO Betterman/ABB make	no	1		
b	SITC of Protonics/L&T/Legrand make dual timer for Signage board/external lights	no	2		
5a	SITC of wiring using 5 run 6 sq.mm PVC insulated, 1100 V grade, FRLS stranded, copper wire and 25mm dia PVC rigid/flexible conduit (flexible conduit for UPS input only)	m	5		
b	SITC of wiring using 3 run 6 sq.mm PVC insulated, 1100 V grade, FRLS stranded, copper wire and 25mm dia PVC rigid/flexible conduit	m	10		
c	SITC of wiring using 5 run 4 sq.mm PVC insulated, 1100 V grade, FRLS stranded, copper wire and 25mm dia PVC conduit	m	20		
d	SITC of wiring using 3 run 4 sq.mm & 2 run 2.5 sqmm, PVC insulated, 1100 V grade, FRLS stranded, copper wire and 25mm dia PVC conduit (for 3 TR casstte AC etc.,)	m	10		
e	SITC of wiring using 3 run 4 sq. mm PVC insulated, 1100 V grade, stranded FRLS cu wire and 25 mm dia PVC conduit	m	60		
f	SITC of wiring using 3 run 2.5 sq. mm PVC insulated, 1100 V grade, stranded FRLS cu wire and 25 mm dia PVC conduit (for ckt wiring /UPS work stations etc)	m	400		
g	SITC of wiring using 3 run 1.5 sq. mm PVC insulated, 1100 V grade, stranded FRLS cu wire and 25 mm dia PVC conduit (for ckt wiring etc)	m	50		
6a	SITC of one 25/20A DP modular switch in sutable enclosure and modular front plate with 20A socket and 20/25A 3 pin top for single phase airconditioners. (socket shall be near indoor unit)	no	3		
b	SITC of one 32 A , 100mA sensitivity 4P ELCB in metallic enclosure	no	1		
c	SITC of one 25 A , 100mA sensitivity 4P ELCB in metallic enclosure	no	1		

d	SITC of one 25A , 100mA sensitivity DP ELCB in metallic enclosure for single phase AC etc	no	3		
e	SITC of 40A 2P isolator with metallic enclosure	no	1		
7	Supply, laying, dressing,connecting and commissioning of 1100V grade PVC insulated armoured power cable (XLPE) with aluminium conductor concealed on wall/ceiling/trench with clamps including charges for making trench(if any) by supplying necessary fixing materials.		0		
a	4x25 sq.mm	m	10		
b	4x16 sq.mm	m	30		
c	4x 10 sq. mm	m	40		
8	SITC of end terminations of the following XLPE cables using flange type cable glands and heavy duty tinned aluminium type crimping cable sockets with gland earthing		0		
a	4x25 sq.mm	no	2		
b	4x16 sq.mm	no	2		
c	4x 10 sq. mm	no	4		
9a	SITC of 2x2.5 sq.mm armoured 1100V grade copper cable for UPS earthing including end terminations	m	30		
b	SITC of 3x1.5 sq.mm armoured 1100V grade copper cable for display in ground floor (if any)	m	50		
10	SITC of bare earthing copper				
a	10 SWG	m	150		
b	25mm 3 mm flat (earth bench using tinned copper having minimum 40 cm length)	nos	2		
11a	SITC of GI pipe earthing station using GI pipe dia 3 m long perforated GI pipe with funnel and constructing inspection chamber by masonry work with heavy duty CI inspection cover conforming to IS 3043 including civil work complete.	Nos	1		
b	SITC of earthing station using 600 x 600 x 3mm copper plate buried in ground, 20 mm dia 3 m long perforated GI pipe with funnel and constructing inspection chamber by masonry work with heavy duty CI inspection cover conforming to IS 3043 including civil work complete.	no	1		
12	Point Wiring for light, fan, plug-sockets:(From switch board to fittings only)				

a	SITC of all materials and wiring through wall, floor, ceiling concealed using color coded 1.5 sq.mm PVC insulated , 1100V grade, FRLS stranded copper wire for point and same size wire with green color as continuous earth for points with independent earth wire for each circuit through ISI grade 25mm PVC conduit including all accessories as per IS 9537 part I , factory made MS boxes, modular type 5A switches& switchboards and ceiling rose/connectors etc., of approved make for controlling one light/fan/exhaust fan/calling bell etc., Number of wire to be used in the conduit should be limited to the IS standards. Rate is inclusive of cost of chipping floor/wall using machine and re-plastering to original form. .All switches/sockets/switch boards shall be of modular type. Wherever wires are drawn on walls, it shall be concealed by chipping the plaster using proper machines. Where conduits are drawn above false ceiling, it shall be firmly clamped on the concrete ceiling/wall using clamps at regular interval (maximum one meter) or laid through rack/tray as per site condition . Rate is for wiring from switch board to fittings only & shall be all inclusive (one lighth controlled by one switch).	no	20		
b	Same as above but controlling two lights by one switch.	no	4		
c	. Same as above but controlling three lights by one switch	no	1		
d	Same as above but controlling four lights by one switch.	no	2		
e	Same as above (item no. 12a) but for ceiling fans including supply & installing stepped type 250 W electronic fan regulator of approved make	no	4		
f	SITC of wiring for 6/8nos, 9W LED Bulk head or tube lights in parallel connected to UPS/KSEB supply with single control using 5A modular switch and plate with identification for external light using 1.5 sq mm Wire (as specified in item no. 12 a, but starting from the Timer/LDB/PDB)	no	1		
h	SITC of 6A 3 pin plug socket with 6A switch , with inter connections complete (combined in switchboard)	no	4		
13a	SITC of one 6A modular switch &3 pin socket in separate location for wall fan (switch shall be installed at reachable height, using 1100v grade FRLSH 3 run1.5 sq mm flexible copper wires) including charges for chipping the wall/floor and making to original form. (Maximum of three sockets only will be permitted in one ckt.) Switch shall be installed in separate box at a height of 1.5m from floor (including cost of wires)	no	5		
b	SITC of one 16A modular switch &16A, 3 pin sockets for ATM/Recycler/any other power sockets etc including charges for chipping the wall/floor and making to original form. (Maximum of three sockets only will be permitted in one ckt.) (cost of wires not included)	no	2		
14	SITC of one 2 plate 15/5A modular switch & sockets including charges for chipping the wall/floor and making to original form. (Maximum of three sockets only will be permitted in one ckt.) (cost of wires not included)	no	4		
15a	UPS Power stations : SITC of 4 nos. 5A, 3 pin sockets controlled by one 15A master switch (modular) in metal box. Number of wires in one conduit shall be limited as per standards. Master switch shall be in separate box at easily accessible position/above the tabe, to operate by sitting on the chair. (cost of wires not included) (two sets per counter)	no.	10		
b	Same as above but for six socket with two master switches	no	1		
c	Same as above but for Three nos 5A, 3 pin socket with one 15A switch for selected counters only as per advise from the BM	no	4		
16	Supply,assembling, installation connection and commissioning of following light fittings including cost of fixing materials/mounting frame wherever necessary:		0		

a	2' x 2', 28/30 Watt , square, recessed mounted LED luminaire, glare free light fittings with luminaire efficiency minimum of 100lm/watt with integral driver, flat diffuser and other controls (and mounting frame if required) complete (as per approved list - Philips RC380BLED 36S-6500 G5PSU OD or equivalent OSRAMWIPRO) complete (as per approved list)	no	6		
b	4', 18 W LED tube light fittings integral driver and other controls..(as per approved list – Philips BN 021)	no	6		
c	15 W LED down light fittings with driver and accessories complete (as per approved list- DN296B LED 15S-6500 PSU WH)	no	12		
d	9/10 W LED wall mounting/bulk head light fittings with driver and accessories complete - Philips WP202	no	4		
e	9 W LED bulb (Philips) with angle holder	no	4		
f	LED strip light with one driver unit per 5 meter (blue color) Crompton/Panasonic make	m	10		
17a	Supply assembling, installation and commissioning of 48" high breeze ceiling fans with white color with all accessories including down rods and angle fastener if required as per site condition (existing ceiling fans in good working condition shall be retained. Only balance quantity should be supplied).	no	1		
b	SITC of 300 mm heavy duty exhaust fan	no	1		
c	SITC of 300 mm light duty exhaust fan	no	1		
d	SITC of swivelling type 1200 sweep wall fans – ivory color	no	4		
18	Supply and laying of ISI marked 25mm dia PVC conduit with accessories along floor/wall/partitions with termination box and GI lead wire as per site condition.	m	20		
19	SITC of flexible 3 core, chord wire with 2.5 sq mm copper conductor (3m long) with 15/5 A 3 pin top	no	6		
20	SITC of one RJ11 telephone jack in modular box	no	6		
21a	SITC of 10 pair KRONE connector	no	1		
b	Supply, laying and commissioning of 0.5sq.mm. 2 pair telephone cable with all accessories including 25 mm dia PVC conduit (converging to EPABX . consult with Brancg Manager)	m	100		
c	Supply, laying and commissioning of 0.5sq.mm. 10 pair armoured telephone cable with all accessories	m	10		
22a	SITC of TV antenna socket (RG-6) modular type factory made MS box with suitable modular plate and base plate including all accessories and connections	no	1		
b	SITC of copper coaxial TV cable drawn thro' 20mm ISI marked PVC conduit with all accessories	m	10		
23a	SITC of ceiling mounted speakers (Ahuja/ Philips make : 9W) including supply, laying & connecting using 2C x 1 sqmm PVC insulated copper wire with 20 mm dia PVC conduit. All wires to converge to a suitable point at a convenient place for keeping the PA system.	no	4		
b	Supply & providing electrical grade rubber floor mats	sq. ft	20		
c	Supply & providing LT caution boards	no	3		

d	Supply & providing electrical grade rubber Hand Gloves	no	1		
e	Supply, provide and fixing shock treatment chart on the wall inside electrical room	no	1		
24	Disconnect & remove all existing unwanted lights & fans, switch board, wiring, cables, Distributon boards etc., after obtaining consent from the IIM official through Branch Manager ; prepare list of removed items and hand over to the IIM official/Branch Manager with acknowledgement..	lot	1		
25a	Prepare required drawing (of the electrical work). Laminate one copy of the drawing and it is required to be displayed in the electrical room/UPS room. Successful contractor shall prepare and handover (through the Branch Manager) the drawings and documents for the work carried out by them with proper authentication satisfying the IIM authorities to regularise the power connection/connect load.	lump-sum	1		
b	Preare physical lay-out of Earth pits and display on the inside wall of of electrical room	no	1		
d	Prepare List of total connected Load after completion, obtain load regularization/ sanction from KSEB /IIM Authority by preparing necessary drawing, application, liaisoning as required by the IIM authority	lump sum	1		
c	If required, obtain necessary approval/sanction from the Kerala State Electrical Inspectorate for the above drawings	lump sum	1		
	NOTE: After completing the installation & commissioning work, the contractor shall prepare check-list (in the prescribed format) of various parameters, carry-out electrical safety audit of the complete electrical installations and submit electrical safety audit report in the Bank's standard format and a certificate stating that the work is carried out by conforming to all safety standards and tender specifications without any additional charge		1		
	TOTAL :				
	GST ii. SGST@				
	i. CGST @..... (total @18%)				
	Grand Total including GST				
	In Words : Rs.				