



REGIONAL BUSINESS OFFICE
PHULBANI,
ODISHA.

PRICE BID

TENDER No.BHU/AOBAM/R3/25-26/04 Dated 25.07.2025

BILL OF QUANTITIES FOR ELECTRICAL & LAN CABLING WORKS FOR LINEPADA BRANCH

SI No	DESCRIPTION	QUANTITY	UNIT	RATE (in Rs)	AMOUNT (in Rs)
<u>PART - I. MAIN PANEL AND DISTRIBUTION BOARD</u>					
01)	Supplying, fixing, testing & commissioning of L.T indoor wall mounted panel board having compartmental arrangement with hinged door for each equipments including provision for cable/conduit entry, earthing stud & duly factory wired with following equipments & making good to the damages caused etc all complete as directed by engineer-in-charge and the panel board must be CPRI certified (<u>Fabrication, drawing and list of components and panel details shall be got approved by Bank's Engineer before fabrication</u>) and the test certificates should be submitted without fail. The fabrication shall be made up of CRCA sheet with thickness of 2.5mm frame, 2.0mm front door with components,1.6mm all other partition.	1	Set		
	The fabrication shall be made up of CRCA sheet with thickness of 2.5mm frame, 2.0mm front door with components,1.6mm all other partition. The panel shall be dust free,vermin proof and totally enclosed with the degree of protection-(IP54) and panel shall be as per IS-2147 or IEC 61439 Indoor compartmentalized and 3B cubical type.				
	The Panel Colour shall be RAL-7032/7035 and hard Copy of the Panel Drawing to be attached inside the Panel.				

	Incoming:				
	Rating of MCCB (1 no.): Rated Current – 63A ; MCCB should be supplied and installed with extended rotary handle. Short Circuit Breaking Capacity – 25kA with adjustable over load current setting (0.8, 1.0). Rated Voltage – 415V ; Numbers of Pole – 4 ; Release type – Thermal magnetic trip unit ; Protection – Over Current/Short Circuit & Neutral over load ; Ref. Standard – IEC60947-2				
	63A copper TPN busbar – 2 set: Electrolytic grade 99.95% pure tinned copper bus-bars with colour coded heat sink sleeves supported on SMC type grip supports.				
	Multi function Digital Meter- 1 no. and phase indicating lamps - 2 sets.				
	63A, 4-pole on-load change over switch				
	Outgoing:				
	40A, 4P, 25kA, MCCB - 1 No. for AC DB. Specifications of the MCCB is same as above given for the incomer.				
	40A DP 10kA MCB Class C – 2 No's (for UPS & Spare)				
	25A 4P 10kA MCB Class C – 2 No. (for ETPN (LDB/ RDB) and spare)				
	32A DP MCB Class C – 4 No. (Streetlight, ATM/ Pump, Misc & spare)				
	20 DP RCCB – 1 No's; Type Added immunity (timer with Contractor for Glow Signboard)				
02)	Supplying & fixing 63A HRC fuse - 3 No's in MS enclosure with lock & key arrangements.	01	Set		
03)	Supply, fixing, testing & commissioning of company made 4way double door MCB distribution board & metal cover having provision of neutral & earthing stud, holes for cable with FRLS PVC conduit entry with following MCBs & making good to the damages caused etc. all complete.				
	ETPN DB having				
	Incoming : 25A 4P MCB, Class-C, 10kA - 1 No.				
	Outgoing : 32A DP MCB CLASS-C 10kA- 4 No's; 25A SP MCB, Class-C, 10kA - 4 No.	1	Set		

04)	Supply, fixing, testing & commissioning of company made 12way double door MCB distribution board & cover having provision of neutral & earthing stud, holes for cable with FRLS PVC conduit entry with following MCBs & making good to the damages caused etc. all complete.				
a.	LIGHT BDB having				
	Incoming : 32A DP 30mA RCCB - 1 No				
	Outgoing : 10A SP MCB CLASS-C 10kA- 10 No's	1	Set		
b.	RAW BDB having				
	Incoming : 32A DP Class-C 10kA MCB - 1 No.				
	Outgoing : 10A SP Class-C 10kA MCB - 10 No's.	1	Set		
05)	Supply of all required materials & labor for wiring to sub-main with following size 1100 V grade FRLS PVC insulated single core multi strand copper wire in surface/ recessed 25mm FRLS PVC Conduit & making good to the damages caused etc., all complete as per directions of engineer-in-charge.				
a	(4 X 6 sqmm + 1 X 6 sqmm) from main panel to ETPN DB via master switch.	40.00	Mtr		
b	(2 X 6 sqmm + 1 X 6 sqmm) from ETPN DB to Light & Raw DB	46.00	Mtr		
c	(2 X 2.5 sqmm + 1 X 2.5 sqmm) from Light DB to switch boards & RDB to work stations.	276	Mtr		
06)	Providing electrical wiring for light/ fan/ exhaust fan/ 5 Amp plug point by using (2 X 1.5 sqmm + 1 X 1.5 sqmm) FRLS PVC insulated 1100 volt grade multistrand copper wire in surface/ recessed 25mm FRLS PVC Conduit with necessary saddles, clamps, bends, holder, ceiling rose, clip in type modular switches & sockets etc including required modular switch board & cover.				
a	Single Light/ceiling fan/exhaust fan point controlled by one 6A clip in modular type switch.	58	Point		
b	Subsequent looping from the primary Light point.	18	Point		
c	6A plug point on existing switch board having clip in modular type 1 no 6A switch & 1 no 6A socket.	10	Set		
d	6A plug point on separate board having clip in modular type 1 no 6A switch & 1 no 6A socket for wall fan.	12	Set		

07)	Insulated safety Rubber MAT- 2.0mm thickness (as per IS:5424/69) at main panel and UPS room.	2	Set		
08)	Supply and fixing ding-dong calling bell with complete wiring as per direction of engineer in charge	1	No's		
09)	Supply and laying GI pipe earthing including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	2	Set		
10)	Supply & laying 19 mm X 3 mm GI flat from earthing to Main Panel.	30	Mtr		
11)	Supply & laying 1.1 kV, 4.0 Core, 25 qmm, Aluminium conductor, XLPE insulated, armored cable having sector / circular shaped aluminium PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armored and overall extruded PVC sheathed confirming to IS: 1554, laid on wall / ceiling using GI clamps & spacers. the cost including end termination of cables including single compressed type brass glands, crimping type copper/Aluminium lugs, insulation tape etc. as 'required complete with earthing of glands as per route shown at site and further as directed by Bank Official/Engineer at site.	20	Mtr		
12)	Supply and laying 2 X 2.5 sqmm + 1 X 2.5 sqmm FRLS 1.1kV PVC insulated copper conductor in M.S.Conduit from main panel board MCB to signage board through digital timer.	20	Mtr		
13)	Supply and fixing digital timer with M.S. enclosure for glow signage board complete in respects	1	Set		
			SUB TOTAL		
PART - II. A.C WIRING WORK					
01)	Supply and installation of double door suitable 4-way TPN DB: Incoming: 40A 4P Class-C 10kA MCB, Outgoing: 32A DP Class-C MCB 6 No's	1	Set		
02)	Supply of all required materials & labor for wiring to sub-main with following size 1100 V grade FRLS PVC insulated single core multi strand copper wire in surface/ recessed 25mm FRLS PVC Conduit & making good to the damages caused etc., all complete as per directions of engineer-in-charge.				

a	(4 X 10 sqmm + 2 X 6 sqmm) from Main panel board to ACDB via AC Master Switch	65	Mtr		
b	(2 X 6 sqmm + 1 X 6 sqmm) from ACDB to cassette AC starter unit through AC outdoor unit and ACDB to Split AC and main panel to Branch Manager AC.	100	Mtr		
03)	Supply, installation and concealing of 3-pin industrial metalclad plug and socket having 25/32A double pole MCB Class C 10kA for Cassette or Split Air-Conditioner.	5	Set		
04)	Supply & installation of 25/32A socket for plugin the AC.	5	Set		
			SUB TOTAL		
	PART - III. COMPUTER WIRING WORKS				
01)	Supply, fixing, testing & commissioning of company made MCB distribution board & cover having provision of neutral & earthing stud, holes for cable/conduit entry with following MCBs & making good to the damages caused etc. all complete. As per direction of engineer in-charge				
a.	Supplying & fixing double door 4 way UPS Input and 8 way Output DB respectively having				
	Input DB: 40A, DP Class-C 10kA MCB – 02 No.	1	Set		
	Output DB: 40A DP Class-C 10kA MCB - 01 No's, 30A DP Class-C 10kA MCB - 01 No's, 10A SP Class-C 10kA MCB - 04 No's,	1	Set		
b.	Supplying & fixing 12 way Computer DB having (non-essential UPS load DB)				
	Incoming : 32A DP Class-C 10kA MCB - 1 No.	1	Set		
	Outgoing : 10A SP Class-C 10kA MCB - 10 No's.				
Note:	Essential UPS load viz 1) CCTV, 2) Fire Alarm & 3) Time lock shall be directly routed from UPS output DB (via SP MCB) to the load point i.e. CCTV rack, Fire Alarm Panel and Time Lock Panel.				
02)	Supply of all required materials & Labour for wiring to submain with following size 1100 V grade FRLS PVC insulated single core multistrand copper wire in surface/ recessed 25mm FRLS PVC Conduit & making good to the damages caused etc all complete as per directions of engineer-in-charge.				
a.	(2 X 6 sqmm + 1 X 6 sqmm) from main panel board to UPS input, UPS input to output DB and UPS output to CDB via UPS master switch (non-essential UPS load).	100.00	Mtr		

b.	(2 X 2.5 sqmm + 1 X 2.5 sqmm) from CDB to UPS power point and UPS output DB SP MCBs to CCTV rack/panel, Fire Alarm Panel and Time Lock Panel.	250.00	Mtr		
03)	Supplying & fixing computer terminal board of approved make having clip in modular type 1 no 16A switch, 4 no's 6A socket socket & 1 no indicator (UPS Power for work stations and LAN rack).	9.00	Set		
04)	Supplying & fixing computer terminal board of approved make having clip in modular type 3 no's 6A switch, 3 no's 6A socket socket (Raw Power).	7.00	Set		
05)	Supplying & fixing switch board of approved make having clip in modular type 1 no's 6A switch, 1no's 6A socket socket & 1 no indicator (UPS Power for for essential UPS load viz. CCTV rack/panel, Fire Alarm Panel and Time Lock Panel.)	3.00	Set		
06)	Supply and laying of earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	1	set		
07)	Supply & laying 19 mm X 3 mm Copper flat from copper plate earthing to UPS DB in all respects.	20	Mtr		
			SUB TOTAL		
	PART- IV. FITTING & FIXTURE.				
1)	Supply & fixing 20-24W Cool Day high lumen output LED recess mount/suspended slim panel of dimensions 1ft x 1 ft of approved make.	18	No's		
2)	Supply & fixing 12W recess mount/suspended slim round/square LED panel of approved make.	4	No's		
3)	Supply & fixing 36W wall mounted Aluminium base batten LED light set of approved make.	2	No's		
4)	Supply & fixing 20W wall mounted Aluminium base batten LED light set of approved make.	14	No's		
5)	Supply & fixing 400mm or 16" high speed, 3-pin metal body BEE 5-star rated BLDC wall mounted fan of approved make.	9	No's		

6)	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC	3	No's		
7) a)	Supply & Fixing 300mm or 12" dia BEE 5-star rated BLDC exhaust fan 900rpm with louver including cutting of hole of approved make.	1	No's		
b)	Supply & Fixing 225mm or 9" dia BEE 5-star rated BLDC exhaust fan 900rpm with louver including cutting of hole of approved make.	3	No's		
8)	Supply and fixing 45-50W LED flood light of approved make with all necessary accessories (GI pipe, clamps, anchors, nuts and bolts)	3	No's		
9)	Supply and laying 3-core 2.5sq.mm copper service cable with an ISI graded u-PVC conduit for Branch flood lighting.	60	Mtr		
10)	Supply & fixing 3W recess mount/suspended LED spot light of approved make.	4	No's		
11)	Supply & fixing LED strip light of approved make.	40	Mtr		
12)	Supply & fixing 12W LED bulb and holder and allied accessories as required of approved make.	4	No's		
			SUB TOTAL		

<u>PART-V. LAN CABLING WORK.</u>					
1)	Supply & fixing information outlet box suitable for RJ 45 terminals including PVC mounting box & top cover (Make D-LINK, AMP, HCL)	3	Set		
2)	Supply & fixing information <i>dual</i> outlet box suitable for RJ 45 terminals including PVC mounting box & top cover (Make D-LINK, AMP, HCL)	4	Set		
3)	Supply & laying E-CAT 6 UTP cable in PVC conduit including termination on either end.(Make D-LINK, AMP, HCL)	220	Mtr		
4)	Supply & fixing 9" U wall mounted modem rack with power distribution box, cable manager, cantilever self, fan & mounting kit etc all complete. (Make Valrack, Comrack, HCL)	1	Set		
5)	Supply & fixing 24 port PATCH PANEL (Make D-LINK, AMP, HCL)	1	No		
6)	Supply & fixing 1 Mtr long E-CAT 6 PATCH Cord (Make D-LINK, AMP, HCL)	12	No		
7)	Supply & fixing 2 Mtr long E-CAT 6 PATCH Cord (Make D-LINK, AMP, HCL)	7	No		
			SUB TOTAL		
<u>PART - VI. ELECTRICAL MASTER SWITCH</u>					
1)	Supply and installing 4-Pole 32A isolator switch with 4-way metal distribution box for LDB/RDB circuit.	1	No		
2)	Supply and installing 2-Pole 32A isolator switch with 4-way double door metal distribution box for CDB (NON-ESSENTIAL LOAD).	1	No		
3)	Supply and installation of MCCB for Air-Conditioning System including Metal enclosure: <u>Rating of MCCB (1 no.):</u> Rated Current – 40A ; Short Circuit Breaking Capacity – 25kA Rated Voltage – 415V ; Numbers of Pole – 4 ; Release type – Thermal based trip unit ; Protection – Over Current/Short Circuit Ref. Standard – IEC60947-2.	1	Set		
			SUB TOTAL		
			Total (Rs.)		