

**BILL OF QUANTITIES FOR ELECTRICAL & LAN CABLING WORK OF SBI J K PAPER MILLS
CAMPUS BRANCH, RAYAGADA (R-V)**

SI No	DESCRIPTION	QUANTITY	UNIT	RATE (in Rs)	AMOUNT (in Rs)
PART - I. MAIN PANEL AND DISTRIBUTION BOARD					
01)	Supplying, fixing, testing & commissioning of L.T indoor wall mounted panel board made out of 18 gauge CR sheet properly painted with 2 coats of primer & 2 coats of enamel paint 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	1	set		
	<u>Incoming:</u>				
	Rating of MCCB(1 no.): Rated Current – 63A ; Short Circuit Breaking Capacity – 18kA; Rated Voltage – 415V; Numbers of Pole – 4; Release type – Thermal Magnetic Release; Protection – Over Current/Short Circuit; Ref. Standard – IEC: 60947-1/2				
	63A 4 pole onload change over - 1no.				
	63A Bus-Bar – 2 set				
	Multi function Digital Meter- 1 no. and phase indicating lamps.				
	<u>Outgoing:</u>				
	32A, 4P MCCB - 1 No's (For A.C)				
	40A, DP MCB – 2No's (UPS & Spare)				
	20A DP MCB - 8 No's (CDB, LDB, RDB, motor, e-corner, street light/spare)				
	16A DP ELCB – 1No's (Timer with Contractor for Glow Signboard)				
02)	Supplying & fixing 63A ISI marked HRC fuse 3 No's in enclosure with lock & key arrangements.	01	Set		
03)	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.				
	LIGHT BDB having				
	Incoming : 20A DP MCB - 1 No				
	Outgoing : 6A SP MCB - 10 No's	1	Set		
04)	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 M.S. Conduit & making good to the damages caused etc all complete				

a	(2 X 6 sqmm + 1 X 6 sqmm) from main panel to LIGHT BDB	30	Mtr		
b	(2 X 2.5 sqmm + 1 X 2.5 sqmm) from Light BDB to switch boards etc .	240	Mtr		
05)	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 M.S. Conduit with necessary saddles, clamps, bends, holder, ceiling rose, clip in type modular switches & sockets etc including required modular switch				
a	Single Light/exhaust fan point controlled by one 6A clip in modular type switch.	40	Point		
b	6A plug point on existing switch board having clip in modular type 1 no 6A switch & 1 no 6A socket	10	Set		
c	6A plug point on separate board having clip in modular type 1 no 6A switch & 1 no 6A socket for wall fan	14	Set		
06)	Supply & fixing 2.5 sqmm X 3 core unarmoured flexible cable of 5mtr length with 5 amp 3 pin top connected at one end for power supply to safe room & locker room.	1	Set		
07)	Insulated safety Rubber MAT- 2.0mm thickness (as per IS:5424/69)at main panel and UPS room	1	Set		
08)	Supply and fixing of ding-dong calling bell with complete wiring as per direction of engineer in charge	1	No's		
09)	Supply and lying earthing with G.I. earth plate 600 mm X 600 mm X 6 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.	2	Set		
10)	Supply & laying 25 mm X 3 mm G.I flat from G.I pipe earthing to Main Panel.	30	Mtr		
11	Supply & laying 1.1 kV, 4 Core, 35 sqmm, aluminium conductor, XLPE insulated, armoured cable.	25	Mtr		
SUB TOTAL					

PART - II. A.C WIRING WORK

01)	Supply of all required materials & Labour for wiring to submain with following size 1100 V grade FRLS PVC insulated five/three core multistrand copper wire in surface/recessed M.S. Conduit & making good to the damages caused etc all complete.				
	(4 X 10 sqmm + 2 X 6 sqmm) from Main Panel board to ACDB	35	Mtr		

	(4 X 6 sqmm + 1 X 6 sqmm) from ACDB to 3.0TR AC starter DP MCB's.	45	Mtr		
	(2 X 6 sqmm + 1 X 6 sqmm) from ACDB to 1.5TR/1.0TR AC starter DP MCB's.	55	Mtr		
02)	Supply & installation of metal clad socket with 20A 4P MCB for 3.0 TR A.C	3	Set		
03)	Supply & installation of metal clad socket with 20A DP MCB for 1.5/1.0 TR A.C	2	Set		
04)	Supply & installation of vertical ACDB (approved make): Incomer: 32A four pole MCB- 1no.; Out-going: 20A 4P MCB – 3 no's & 20A DP MCB- 2 no's	1	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.				
a.	Supplying & fixing UPS Input DB having Incoming : 40A, DP MCB – 02 No	01	Set		
	Supplying & fixing UPS Output DB having Outgoing : 40A DP MCB – 01 No, 32A DP MCB – 2 no's.	01	Set		
b.	Supplying & fixing Computer DB having Incoming : 25A DP MCB - 1 No	1	Set		
	Outgoing : 6A SP MCB -12 No's				
d.	Supplying & fixing Raw Power BDB having Incoming : 25A DP MCB - 1 No	1	Set		
	Outgoing : 6A SP MCB - 12 No's				
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 steel conduit & making good to the damages caused etc all complete.				
a.	(2 X 6 sqmm + 1 X 6 sqmm) from main panel to UPS Input DB.	15.00	Mtr		
b.	(2 X 6 sqmm + 1 X 6 sqmm) from main panel to Raw Power DB & UPS Input DB to UPS Output DB, UPS Output DB to CDB.	50.00	Mtr		
c.	(2 X 2.5 sqmm + 1 X 2.5 sqmm) from CDB to UPS power point & Raw Power DB to Raw Power point.	250.00	Mtr		
03)	Supplying & fixing computer terminal board of approved make having clip in modular type 2 no's 6A switch, 4 no's 6A socket socket & 1 no indicator (UPS Power)	12.00	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 & 1 no indicator (Raw Power)	12.00	Set		

05)	Supply and laying 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	1	set		
06)	Supply & laying 25 mm X 3 mm Copper flat from copper plate earthing to UPS DB.	20.00	Mtr		
SUB TOTAL					

PART- IV. FITTING & FIXTURE.

1)	Supply & fixing 15W recess mounted LED round/square down lighter of approved make.	4	No's		
2)	Supply & fixing 36W 2X2 recess mounted LED square down lighter of approved make.	12	No's		
3)	Supply & fixing 20W wall mounted LED tube light set of approved make.	8	No's		
4)	Supply & fixing 50W LED street/flood light of approved make with all required accessories (2ft bent pole, clamps, nut-bolt etc)	4	No's		
5)	Supply & fixing 12W LED bulb with holder set of approved make.	4	No's		
6)	Supply & fixing 400mm sweep wall mounted fan of approved make.	13	No's		
7)	Supply & Fixing 225mm swipe exhaust fan of approved make.	1	No's		
SUB TOTAL					

PART-V. LAN CABLING WORK.

1)	Supply & fixing information outlet box suitable for RJ 45 terminals including PVC mounting box & top cover (Make D-LINK, AMP HCL)	21	Set		
2)	Supply & laying E-CAT 6 UTP cable in PVC conduit including termination on either end.(Make D-LINK AMP HCL)	400	Mtr		
3)	Supply & fixing 9" 9 U wall mounted modem rack with power distribution box, cable manager, cantilever self, fan & mounting kit etc all complete. (Make Valrack, Comrack, HCL)	01	Set		
4)	Supply & fixing 24 port DATA SWITCH(Make D-LINK, AMP, HCL)	01	No		
5)	Supply & fixing 24 port PATCH PANEL (Make D-LINK, AMP, HCL)	01	No		
6)	Supply & fixing 1 Mtr long E-CAT 6 PATCH Cord (Make D-LINK, AMP, HCL)	21	No		
7)	Supply & fixing 2 Mtr long E-CAT 6 PATCH Cord (Make D-LINK, AMP, HCL)	21	No		
SUB TOTAL					

TOTAL (Rs.)	
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