

Schedule - 'B'**Schedule of jobs for Miscellaneous Electrical Works at Turamdih Mill**

Sl. No.	Description	Qty.	Unit	Rate (in Rs.)		Amount (in Rs.)
				in figures	in words	
1	Replacement/maint. of 5A switch/socket in the existing switch board.	30	nos.			
2	Replacement / maint. of fan regulator of ceiling fan in the existing switch board/ceiling fan.	25	nos.			
3	Supply, fixing and commissioning of 5 amp.220 V combined switch-socket with 4 inch X 6 inch wooden switch board with bakelite cover with white surface of minimum 3 mm thickness.	40	nos.			
3a	Supply of above switch board with 5 amps, 220 V combined switch socket.	25	nos.			
4	Supply, fixing and commissioning of 5 amp, 220V switch with 4 inch X 4 inch wooden switch board with bakelite cover with white surface of minimum 3 mm thickness.	40	nos.			
4a	Supply of above switch board with 5 amps,220 V switch.	25	nos.			
5	Supply and laying of 2X 1/c x 2.5 sq. mm PVC insulated ,1100 Volt , grade stranded flexible copper conductor cable + 1 x 1/c x 1.5 sq. mm copper conductor for earthing through 19/25 mm dia ,GI conduit of 2 mm thickness saddled on wall/RCC column . This includes supply of GI conduit, JBS clamps and all other hardware required for fixing the GI conduit. Make of cable: Havells/ Lapp/ Rajnigandha/National Cable. (cable andGI conduit shall be approved by UCIL.before installation)	200	mtrs.			

6	-DO- but with 4 sq mm cable	100	mtrs.			
7	Supply and laying of 2X 1/c x 2.5 sq. mm PVC insulated ,1100 Volt grade stranded flexible copper conductor cable + 1 x 1/c x 1.5 sq. mm copper conductor for earthing through through PVC casing capping of width 25/35mm of ISI mark. (size of casing capping)	500	mtrs.			
8	Complete overhauling of ceiling fan. This includes cleaning and greasing of ball bearing/replacing of defective bush / bearing.(only bearings shall be supplied by UCIL). Rewinding of fan not included.	20	nos.			
9	Dismantling/ installation with commissioning of ceiling fan. This include disconnection/connection of circuit also.	25	nos.			
10	Maintenance and cleaning of tube light fitting with replacement of defective parts like choke ,tube light holder,base and stator holder and checking of internal wiring etc. This includes checking of main line electrical circuits (other than internal wiring of tube light fitting.)	150	nos.			
11	Installation ,connection & commissioning (through controlling switch)of tube light fitting (single /double T/L fitting) on wall/structure etc with wooden round block /4X4Inch wooden block . (wiring in running meter not included but wooden block shall be in the scope of bidder)	20	nos.			
12	Replacement /maint of 15 A power point in the existing switch boards. Switch shall be supplied by UCIL	15	nos.			
13	Supply of: i) switch board of size 8 inch X 10 inch /6inch X 8inch. The switch board shall be well finished made from CRCA sheet steel of 2 mm thickness duly painted and with electrical grade bakelite cover with white surface. of minimum 3mm thickness. Note:- This includes cutting in cover for fixing switches	25	nos.			

14	Complete maintenance of feeder pillar box. This includes cleaning and tightening and checking of all line parts and replacement of defective items.	4	nos.			
15	Replacement of fuse /fuse wire in LDB/PDB	25	nos.			
16	Replacement of ELCB in the MDB/ LDB. This includes tightening and checking of all line parts/circuits also.	25	nos.			
17	Replacement / maint. of MCBs of power distribution boards(PDB)/lighting distribution board (LDB)This includes tightening and checking of all line parts.	40	nos.			
18	Installation and commissioning of exhaust fan of up to size 350 mm dia .This includes cutting of wall and finishing and supply of hardware like nut,bolts etc.only exhaust fan shall be supplied by UCIL)	7	nos.			
19	Checking and maintenance of exhaust fans. This Includes dismantling,cleaning , replacement of bearing/bushing, assembling and paiting.(Only bearing shall be supplied by UCIL)	10	nos.			
20	Maint. of flood light fittings/ Halogen light fitting on building ,structures, pole etc. This includes replacement of defective parts like holder/lamp and proper fixing of the above The ladder will be provided by M/s UCIL. Transportation of ladder etc has to be done by contractor from one site to another.	50	nos.			
21	Maintenance of street light fittings (70watt/150watt HPSV/HPMV lamp fittings) This includes cleaning, tightening and replacement of defective items like bulb/choke,igniter,capacitor,holder etc. and fixing of bracket on lighting poles also including maint.	150	nos.			
22	Maintenance and replacement of photo cell and associated circuits This includes proper setting of photo cell, cleaning and tightness checking of associated circuits including contractor and switch fuse unit.	5	nos.			

23	Maintenance of lighting protection system and earthing system					
	i) Refixing/fixing of 8 SWG GI wire(Measurement in meter)	50	mtrs.			
	ii) Refixing/ fixing of air terminal	20	nos.			
24	Laying of following size cable in trench of 750mm deep and 400mm in single tire formation including excavation, back filling and cable protection with sand and bricks (16 Nos. of bricks per meter). This includes supply of brick and sand also. (quality of sand and bricks shall be approved by UCIL before use at site)					
	i) 3/4 core 120/185/300 sq.mm Al cable .(in meter)	400	mtrs.			
	ii) 3/4 core 10/16/25/50/95 sq, mm Al cable (in meter)	400	mtrs.			
24 a	Laying of 1.1 KV grade PVC insulated 3,31/2,4 core armoured Alluminium conductor cable of size up to 50 sq.mm in underground trench /cable tray with supply of aluminum clamps, nuts, bolts etc.(Note: Fabrication of the cable trays and construction of cable trench are not included in the above scope.)	2500	mtrs.			
24 b	-do- but cable size 3/3&1/2 core, 120/185/300 sq mm.	500	mtrs.			
25	6.6 KV overhead line maintenance. This includes following					
	i) Replacement of pin insulator	15	nos.			

	ii) Replacement of Air Break switch	10	nos.			
	iii) Replacement of post insulator.	15	nos.			
	iv) Replacement of disc insulator.	10	nos.			
26	Installation of street light poles with lighting fixture (HPSV lamp/Mercury lamp/Halogen lamp fitting). This includes supply and erection of all materials required for cement concrete foundation. This also includes fixing of junction box,painting,marking,fixing of earth spike of 32 mm dia and 2.5mtrs long M.S rod with necessary connection of lighting fixture with 2.5 sq .. PVC stranded copper conductor cable from light fitting to junction box..(Light fittings, street light poles and junction box shall be supplied by UCIL)	5	nos.			
27	Installation of street light fixture on wall/building/structure etc. This includes connection/transportation of light fittings & its accessories also.	15	nos.			
28	Supply and placement of well finished storage system with 5 nos. of racks and double doors with locking facility for storing spares made from CRCA sheet steel of minimum 20 guage (approx 1.05 mm) mm thickness size :2000x900x550 (HxVxD). This shall have to be approved by UCIL before supply	1	nos.			
29	Installation of stay set complete in all respects. This includes supply and erection of all materials required for cement concrete foundation.	5	nos.			
30	Installation of ACSR DOG (in meter) conductor including transportation and tensioning of DOG conductor and supporting & fixing on insulators including binding as required.	1000	mtrs.			

31	Supply of two skilled men (min ITI/NCVT (Electrical) & license holder) plus two unskilled men (with minimum two years experience in electrical related jobs. The jobs include material shifting, tool & tackles shifting from one site to other site, cable glanding, cable socketing, cable termination and other electrical related jobs as per requirement of the plant.	360	days			
32	Supply of two skilled men (min. ITI / NCVT(Elect.) & license holder) as electrical fitter. Persons shall have minimum two years experience in electrical jobs for motor overhauling, bearing replacement and electrical fitting jobs and other electrical related jobs as per requirement of the plant .	340	days			
33	Cable terminal finishing including equipment connection and supply of double compression type gland and lugs of reputed make for 1.1 KV grade PVC insulated armoured stranded aluminum conductor cable. of following size.					
	a) up to 3/4 core 16 sq.mm.	40	nos.			
	b) 4 core 25 sq.mm.	14	nos.			
	c) 3.5 core 50sq.mm..	6	nos.			
	d) 3.5 core 120sq.mm.	6	nos.			
	e) 3.5 core 185 sq.mm	6	nos.			
	f) 3.5 core 300 sq.mm	2	nos.			
34	Supply of two semi skilled men (min. ITI / NCVT(Elect.) with min. two years experience in electrical jobs or persons with minimum five years experience in electrical jobs) for electrical wiring and other electrical jobs .	340	days			

35	Replacement of 150/250 watt 220 volts HPSV lamp for medium bay and high bay type light fitting. Light fittings tallied at a height up to 10.5 meters and upto 20 meters (approx). Lamps shall be supplied by UCIL.	30	nos.			
36	Maintenance of 150/250 watt ,220 volts HPSV lamp fitting(High bay and medium bay type).This includes replacement of defective parts like lamp,choke,ignitor ,condensor,holder etc and repairing of internal wiring. This also includes checking and repairing of lighting circuit from lighting DB to lamp fitting including removal and refixing of lamp fitting.Note: These light fittings are installed at a height of upto 20 metre steel structures near ceiling of the buildings. All spare parts shall be supplied by UCIL.	30	nos.			
37	Construction of earth pit with GI pipe as per IS: 3043 with latest amendments.This includes supply of all materials required for construction of earth pit and interconnections by GI flat of size 50 x 6mm.This also includes construction of brick chamber and cover by chequered plate of 8mm thick for earth pit inclusive of all materials. This does not include supply of GI flat.	2	nos.			
38	Supply & fabrication of Mild steel structure required for erection of MCC panel and making of cable trays as per requirement. Fabrication shall be done with Channel , angle, pipes, plate etc. (Note: for channel ISMC 75, 100, 125, 150 , for angle 65 x 65 x 8, 50 x 50 x 6, 40 x 6 to be considered and for plate 6/8/10 mm. to be considered however exact size will be decided at the time of carrying out jobs and as per requirement)					
38a	Supply	1	ton			
38b	Fabrication (Required for erection of panels and cable trays and other items as per site condition) (Note: Extra steel shall be supplied by UCIL. Gas cutter ,welding sets welding rods etc shall be in bidders scope))	2	tons			

39	Erection of push button station including including fixing on steel structure/wall and supply of all hardwares and connections.. (Only push button station will be supplied by UCIL)	10	Nos.			
40	Fixing of TPN fuse switch unit up to 63/100 amps. (Make:GE/English Electric) with all fixing hard wares and welding materials This includes cable connection to the switch also. canopy shall also be provided for protection from rain water. (TPN Fuse switch unit shall be supplied by UCIL)	10	nos.			
41	Removal of 1.1 KV grade PVC insulated 3/3&1/2 core armoured Alluminium conductor cable of size 6 sq.mm. in underground trench /cable tray with removal; of aluminum clamps, nuts, bolts etc.(Note: Fabrication of the cable trays and construction of cable trench are not included in the above scope.)	500	mtrs.			
42	-do- but cable size 3/3&1/2/4 core, 10/16 sq mm.	500	mtrs.			
43	-do- but cable size 3/3&1/2 core, 25/35/50 sq.mm.	800	mtrs.			
44	-do- but cable size 3/3&1/2 core, 70/95 sq mm.	500	mtrs.			
45	-do- but cable size 3/3&1/2 core, 120/150/185 sq. mm.	400	mtrs.			
46	-do- but cable size 3/3&1/2 core, 240/300 sq mm.	100	mtrs.			
					Grand Total (in Rs.) =	

Note: The above rates shall be inclusive all taxes including service tax. 50 % of prevailing service tax shall be deducted by UCIL and remaining 50% shall be liability of bidder .

Grand Total (in words):