

**Schedule - " B "**

**Schedule of jobs for Cable laying, cable termination and erection of MCC, PDB panels for Peroxide Plant**

**Part-A (Supply of Materials)**

Sl. No.	Description	Qty.	Unit	Rate (in Rs.)		Amount (in Rs.)
				in figures	in words	
1	Supply of double compression type gland & lugs of Dowells / Comet make (to be approved by UCIL) of 1.1 KV grade PVC stranded 'Al' cable of the following size: {01 set consists of 1 No. gland and 3/4 Nos. (as per requirement)of lugs.}					
a.	i) Supply of cable gland and lugs for 3 Core x 6 sq. mm.	16	Nos.			
b.	i) Supply of cable gland and lugs for 3/4 Core x 10/16 sq. mm.	14	Nos.			
c.	i) Supply of cable gland and lugs for 3/3.5 Core x 25/35 sq. mm.	8	Nos.			
d.	i) Supply of cable gland and lugs for 3/3.5 Core x 150/185 sq. mm.	4	Nos.			
e.	i) Supply of cable gland and lugs for 3.5 Core x 300 sq. mm.	4	Nos.			

2	Supply of double compression type gland & lugs of Dowells / Comet make (to be approved by UCIL) of 1.1 KV grade PVC stranded 'Cu' cable of the following size: {01 set consists of 1 No. gland and 3/5 Nos. of lugs.}					
a.	i) Supply of cable gland and lugs for 3/5 Core x 2.5 sq. mm.	50	Nos.			
3	Supply of Mild steel structure required for making of cable trays/fixing of switches and supports as per requirement. N.B - Fabrication shall be done with channel, angle, pipes, plates etc. (Note: for channel ISMC 75, 100, 125, 150 and for angles 65 x 65 x 8, 50 x 50 x 6, 40 x 6 to be considered, 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)					
a.	Supply	3	tons			
4	Supply of 50 x 6 mm G.I. flat for earthing along the wall, steel structure, cable trays, cable trench, including supply clamps, nuts, bolts etc. an connection to panels, equipments and earth grids.					
	i) Supply of 50 x 6 mm G.I. Flat	300	Mtrs.			

5	-do- but G. I. earth strip: size 50 x 6 mm. including supply of clamps, excavation & backfilling etc.					
	i) Supply of 25 x 6 mm G.I. Flat	300	Mtrs.			
6	Supply of all materials for preparation of Earth Pit including 3 Mtr. Long, 3.64 mm thick perforated G.I. tube with salt and charcoal in alternate layer and brick chamber at the top with chequered plate (6 mm thick) and other required materials for completion of earth pit as per IS-3043 with latest amendments with inter connection of G. I. flat (G. I. pipe shall be approved by Engineer-in-charge or his representative)					
	i) Supply of materials for Earth Pit as given above	2	Nos.			
7	Supply of 250/150 Watt, 230 Volts AC sodium vapour lamp fitting (street light fitting). This shall include supply of junction box of minimum size 120mm x 120mm x 60mm (L x W x D) made from CRCA sheet steel of minimum 2mm thickness duly painted, Supply of up to 1.5 Mtr. long suitable (50mm dia., 3.64mm thick) G. I. pipe, clamp materials including nuts and bolts etc. and all other hardwares and fabrication materials required for fixing and commissioning of the fitting. (Note: The G.I. pipe / junction box shall be approved by UCIL)					

a.	Supply of fitting with lamp (Fitting type: SRP 202 / 150 W or 250 W or equivalent of HPSV lamp fitting, Make: Philips)	2	Nos.			
					<b>Total (Part - A) in Rs. =</b>	

**Part - B (Cable laying, Erection, Fabrication etc.)**

Sl. No.	Description	Qty.	Unit	Rate (in Rs.)		Amount (in Rs.)
				in figures	in words	
8	Erection of L. T. switchgear panel/PDB/MCC panels of average approx. dimensions: H = 2 Mtrs., W = 1 Mtr., L = 6/4 Mtrs. And average weight: 2.5 tons. (The length of the longest panel shall be 3/4 Mtrs. approx and smallest panel shall be 1.6 Mtrs. approx. ) This shall include jointing of panel sections with nut bolting and jointing of bus bars etc. Panels shall be erected in all respect excluding cable connections. Panels shall be erected in such a way that after cable connection panels can be commissioned without carrying out further jobs. Note: Panels shall be erected over cable trench and as per existing style of erected panels in VVFD panel rooms and our existing MCC rooms.	3	Nos.			

9	Laying of control cable of 1.1 KV grade PVC insulated 2.5 sq. mm. up to 3/5 core, copper conductor armoured cable in underground trench / cable tray / wall with supply of aluminium clamps/saddles, nuts, bolts/screws/fasteners etc. (Note: Fabrication of the cable trays and construction of cable trench are not included in the above scope.)	1800	Mtrs.			
10	Laying/removal of 1.1 KV grade PVC insulated 3/3 & 1/2 core armoured aluminium conductor cable of size 300 sq. mm. in underground trench / cable tray with supply of aluminium clamps, nuts, bolts etc. (Note: Fabrication of the cable trays and construction of cable trench are not included in the above scope.)	135	Mtrs.			
11	-do- but cable size 3/3 & 1/2 core, 150/185 sq. mm.	180	Mtrs.			
12	-do- but cable size 3/3 & 1/2 core, 25/35 sq. mm.	300	Mtrs.			
13	-do- but cable size 3/3 & 1/2 core, 10/16 sq. mm.	700	Mtrs.			
14	-do- but cable size 3/3 & 1/2 core, 6 sq. mm.	800	Mtrs.			

15	Finishing, including equipment connection of 1.1 KV grade PVC stranded 'Al' cable of the following size: {01 set consists of 1 No. gland and 3/4 Nos. (as per requirement) of lugs.} with materials supplied in item Sl. No. 1 of Part - A					
a.	Fixing of cable glands and socketing for 3 Core x 6 sq.mm.	16	Nos.			
b.	Fixing of cable glands and socketing for 3/4 Core x 10/16 sq.mm.	14	Nos.			
c.	Fixing of cable glands and socketing for 3/3.5 Core x 25/35 sq.mm.	8	Nos.			
d.	Fixing of cable glands and socketing for 3/3.5 Core x 150/185 sq.mm.	4	Nos.			
e.	Fixing of cable glands and socketing for 3.5 Core x 300 sq.mm.	4	Nos.			
16	Finishing, including equipment connection of 1.1 KV grade PVC stranded 'Cu' cable of the following size: {01 set consists of 1 No. gland and 3/5 Nos. of lugs.} with materials supplied in Item Sl. No. 2 of Part - A					
a.	Fixing of cable glands and socketing for 3/5 Core x 2.5 sq. mm.	50	Nos.			

17	Fabrication of Mild steel structure required for making of cable trays/fixing of switches and supports as per requirement. Fabrication shall be done with channel, angle, pipes, plates etc. (Note: for channel ISMC 75, 100, 125, 150 and for angles 65 x 65 x 8, 50 x 50 x 6, 40 x 6 to be considered, 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) with materials supplied in Item Sl. No. 3 of Part - A					
b.	Fabrication (Required for making cable trays/fixing switches supports erection and other items as per site condition). Extra steel shall be supplied by UCIL (Note: Gas cutter, welding sets welding rods etc. shall be in bidders scope)	4	tons			
18	Laying of 50 x 6 mm G.I. flat for earthing along the wall, steel structure, cable trays, cable trench with materials supplied in Item Sl. No. 4 of Part - A					
	i) Laying of 50 x 6 mm G.I. Flat	300	Mtrs.			
19	-do- but G. I. earth strip: size 50 x 6 mm. and as per Item Sl. No. 5 of Part - A					
	i) Laying of 25 x 6 mm G.I. Flat	300	Mtrs.			

20	Preparation of earth pit with 3 Mtr. Long, 3.64 mm thick perforated G.I. pipe with salt and charcoal in alternate layer and brick chamber at the top with chequered plate (6 mm thick) as per IS-3043 with latest amendments with inter connection of G. I. flat (G. I. pipe shall be approved by Engineer-in-charge or his representative) with materials supplied in Item Sl. No. 6 of Part - A					
	i) Constuction of Earth Pit	2	Nos.			
21	Erection of Push Button Station/Lighting Distribution Board (LDB)/JB including fixing on steel structure/wall and supply of all hardwares and connections. (Only push button station/LDB/JB will be supplied by UCIL).	20	Nos.			
22	Fixing and commissioning (with connections) of 250/150 Watt, 230 Volts AC sodium vapour lamp fitting (street light fitting) upon G.I. pipe. This shall include connections and fixing of junction box of minimum size 120mm x 120mm x 60mm (L x W x D) made from CRCA sheet steel of minimum 2mm thickness duly painted and all other hardwares and fabrication materials required for fixing and commissioning of the fitting. The fitting shall be fixed on steel structure near ceiling of the building /columns /wall. The fitting shall be commissioned through Lighting DB / Switch board with materials supplied in Item Sl. No. 7 of Part - A					

b.	Fixing of out door type street light fitting (HPSV/HPMV) 150 Watt / 250 Watt, 230 VAC on steel structure/column/wall/roof. (Note: Extra fitting shall be supplied by UCIL)	4	Nos.			
	<b>Total (Part - B) in Rs. =</b>					
	<b>Total (Part - A + Part - B) in Rs. =</b>					
	<b>Rebate (if any) @ _____% in Rs. =</b>					
	<b>Grand Total (in Rs.) =</b>					

Note: The above rates shall be inclusive of all taxes including Service Tax. Out of this 50 % shall be deducted by UCIL from bills and deposited and balance 50 % shall be bidder's liability

**Grand Total (in words):**