

### Estimate cum schedule of work

**Name of the work:** Earthing, retrofitting of the existing feeder pillar box and allied electrical work for the substation of IACS

SL.No.	Item Description	Quantity	Unit.	Rate (Rs.)	Amount (Rs.)
1	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 metre long etc. with charcoal/coke and salt as required.	3	Sets.		
2	Providing and fixing 50mm x 5mm copper strip (wrapped with PVC sleeve) on surface or recess etc. as required.	50	Metre		
3	Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required.	2	Sets.		
4	Providing and fixing 25mm x 5mm G.I. strip in 40mm dia G.I. pipe from earth electrode including connections with SS nut, bolt, spring, washer excavation and re-filling etc as required.	40	Metre		
5	Providing and fixing 25mm x 5mm G.I. strip on surface or in recess for connections as required.	70	Metre		
6	Supplying and fixing of 2'X2' tile, Energy efficient LED light, with all accessories, as required.	3	Sets		
7	Supplying of 1400 mm sweep, ant dust, ceiling fan complete with all accessories. ( Make : Usha, Orient, Polar & Crompton)	2	No.		
8	Installation, testing & commissioning of ceiling fan including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm. FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	2	No.		
9	Providing & fixing extra down rod of 20 cm length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note: more than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	4	Nos.		
10	Supplying & fixing of following rating, breaking capacity & 4 pole MCCB with thermomagnetic release & terminal spreader in existing panel board including drilling holes in the panel, making connection ( using 'Cu' bars ) etc. complete as required.				
a)	200 A, 4 pole, 16 KA MCCB.	1	No.		
b)	250 A, 4 pole, 25 KA MCCB.	3	No.		
	<b>Make :</b> L & T, Hager, Legrand, ABB.				

SL.No.	Item Description	Quantity	Unit.	Rate (Rs.)	Amount (Rs.)
11	Re-Fabricating, Installation & Commissioning of existing compartmentalized outdoor type feeder pillar box, with the following additions.	1	set		
	a) Fabrication of Bottom plate & bottom gland plate made up with 14 SWG CRCA sheet.				
	b) Feeder panel stand made up with 50 mm X 50 mm X 6 mm & 75 mm X 40 mm X 6 mm channel iron.( Stand height - 750 mm & Existing Feeder Panel base size - 2'2.5" X 1'8.5" )				
	c) supply and retrofitting of annodized EC grade 'Cu' busbars (size: 40 mm X 5 mm X 600 mm - 3 nos & 25 mm X 6 mm X 600 mm. - 1 no.) along with all power & control terminals including wiring the terminals with copper bars of suitable size for fixing the MCCBs. The feeder pillar box should have provision for both side doors with provision for ventilation, foam rubber gasket, heat sleeves, rubber gromets, earth bus bar, door knob, LED indication lamps etc. complete as required. This job includes supply & fixing of "Danger plate" (200mm X 150mm) as per the relevent prvision of IE Rule.				
	d) Painting of the Feeder Panel with Powder coated/Epoxy based paint				
12	Supplying of 3.5 core 240 sq.mm PVC sheathed/XLPE insulated armoured aluminium power cable of 1.1 KV grade as per IS : 7098 ( part-1) 1988 etc. as required. <b>Make : Polycab,Gloster, KEI &amp; Havells.</b>	85	Metre.		
13	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation and refilling the trench etc as required,but excluding sand cushioning and protective covering.				
a)	Above 185 sq.mm. and upto 400 sq.mm.	70	Metre.		
14	Laying and fixing of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
a)	Above 185 sq.mm. and upto 400 sq.mm.(Clamped with 40 x 3 mm MS flat clamp.)	15	Metre.		
15	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size in the existin /DWC pipe as required.	70	Metre.		
16	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 KV grade as required.				
a)	3.5 X 240 sq.mm.	2	Each		
17	Supplying and laying of following DWC HDPE pipe ISI marked along with all accessories like socket,bend,couplers etc.conforming to IS 14930,part II complete with fitting and cutting, jointing etc. in the existing trench,complete as required.				
a)	120 mm dia (OD - 120 mm & ID - 103 mm nominal)	70	Metre.		
				<b>Total</b>	
Rupees.....only					
<b>NOTE:The quoted rate shall be inclusive of all taxes &amp; duties, levies, cess etc i/c GST also. Nothing extra will be paid to the Contractor except the accepted rate.</b>					
GST No:					
SAC code:					
CGST@.....% considered in the above BOQ					
SGST@.....%Considered in the above BOQ					