

**.Estimation for Turamdih colony area street Lighting. Annx-To NIT -No .TMD/MiN-707**

Sl. No.	Item Description	Unit	Qty.	Rate RS	Rate RS	Amount Rs	Remarks
				In figure	In words		
1	Supply and Erection of pole bracket & lighting fixture with 1 X 150 W HPSV lamp on bracket on 11.5 mtrs high swagwd type steel tubular pole . The scope of supply of pole & lighting fixture are in the scope of contractor including all materials required like GI pipe bracket hardware GI wire GI pipe are in the scope of contractor. The job also includes drilling of 03 nos 10 mm dia suitable size drilled hole in the poles at the top of pole for fixing bracket.						
A	Supply						
i	150 watt HPSV fittings (Model Skyline SGP-325) with all accessories	Nos.	26				
ii	Lamp Elliptical (SON 150W)	Nos.	26				
B	Installation		26				
2	Erection of swaged and welded steel tubular pole of 11.5 mtrs long with weather proof junction box , bracket & accessories This include supply and erection of all materials required for cement concrete foundation. This also include supply and fixing of pole junction box, bracket. painting marking. Supply and fixing of earthing by one no. of earth spike. 32mm x 2.5 mtrs long MS rod with necessary G.I protection sleeves including all other accessories. Only pole will be supplied by UCIL rest all materials will be supplied by contractor.	Nos.					
	Installation						
i	Pit digging for grouting of tubular pole, Depth- 1950mm x Width 900 mm x 900 mm.	Nos.	26				
ii	Erection of pole	Nos.	26				
iii	Painting of poles including bracket two coat of red oxide & two coat of Allumuriun paint of reputed make	Nos.	26				
iv	Earthing of pole by supply of 32mm x 2.5 Mtrs long MS rod & GI conduit & Pipe	Nos.	26				

3	Laying, testing & commissioning of 1. 1 KV grade PVC Al . armoured cable of size 2C x 16 sqmm in single layer for horizontal including trench excavation, back filling, providing top & side bricks and sand etc	Mtrs	500				
	do- but through 50mm GI pipe.Supply of pipe will be in the scope of contractor.	Mtrs	50				
4	Supply & laying of 2 x 1C x 2.5sqmm + 1C x 1.5sqmm, PVC insulated flexible copper cable from pole junction box to luminaire including connection & all accessories as per instruction of Engineer-in-charge.	Mtrs	300				
5	Supply & Fixing of outdoor type automatic street lighting panal having distribution with MCBs & Contactors(,ML- 4 ) Isolators etc.This also includes supply, fixing & connection of light sensor photo cell with the control panel.	Nos.	1				
6	Laying of 1.1 KV grade PVC, Al cables in underground trench of 760 mm wide & 760 mm depth in single tier formation including trench escavation and bricks and sand (quality of sand and bricks will be approved by UCIL) Cable of size 3 1/2 C x 35 sqmm Al.	Mtrs	300				
7	Do but through 150 mm G.I including supply of G.I. pipe 50/120/185 sqmm cable	Mtrs	50				
8	Finishing of 1.1 KV grade PVC stranded AL. conductor cable by tinned copper lugs and crimping including connections. This also including supply of cable lugs and DC Glands						
	a) 2 core x. 16 sqmm Al. cable	Nos.	60				
	b) 3 1/2 C x 35 sqmm Al cable	Nos.	10				
9	Erection of outdoor type power feeder piller box suitable for 415V,3Phase,4wire system with 250 Ampere TPN I/C SFU OF " L&T make and 4 nos outgoing feeders with 63 Amps TP MCBs of standard make and AL Busbars of 250A capacity. 35sqmm cup per wires shall be used for connections from busbars to outgoing MCBs. Erection includes preparing concrete foundation and grouting with supply of hardwares.	Nos.	1				

10	Supply & Installation of earth pit using pipe earth electrodes as per latest IS amendments. This includes supply and fixing of earth connections with 4 SWG GI wire and necessary nut & bolts, washers etc & restoring the source to original finish. This includes supply of salt & charcoal, the earth pit shall be strictly in accordance with drawing attaches the earth electrodes should be interconnected.	Nos.	5				
11	Supply & Laying of 50 x 6 mm GI strips underground (500mm) below ground including earth excavation, back filling with bricks protection, approx 4 bricks per meter with supply of bricks) and connection to the equipments as well as earth grid. All joints shall be welded by low hydrogen content arc welding rod.	Kg	200				
	<b>Total</b>						