

**Schedule of items for Street light erection from D-Gate to Mill ore yard,Turamdih.**

**(Annx. To NIT No.-TMD/MIN-695)**

S/No.	Item Description	Unit	Qty.	Rate (Rs)		Amount (Rs)	Remarks.
				In figure	In words		
1	Supply and Erection of pole bracket & lighting fixture with 1x 150 Watt HPSV lamp on bracket on 11.5 mtrs high swaged type steel tubular pole . The scope of supply of pole bracket & lighting fixture are in the scope of contractor including all materials required like GI bracket hardware, GI wire GI pipe are in the scope of contractor .The job also includes drilling of 03 nos 10mm dia suitable size drilled hole in the poles at the top of pole for fixing bracket.						
A	Supply						
i	150Watt.HPSV fittings Type-( Skyline SGP- 325)with pole bracket and all accessories	Nos	26				
ii	Lamp Elliptical ( SON 150 W)	Nos	26				
B	Installation	Nos	26				

2	Errection of swaged and welded steel tubular pole of 11.5 mtrs long with weather proof jonction box ,bracket & accessories .This includesupply & erection of all materials required for cement concrete foundation . This also include supply and fixing of pole junction box .painting ,marking .supply and fixing of earthing by one no of earth spike . 32mmx 2.5mtrs long MS rod with neccessary GI protection slaves including all other accessories. only pole will be supplied by UCIL rest all the materials will be supplied by contractor.						
i	Pit digging for grouting of tubular pole ,depth - 1950mm X width 900 mmX 900 mm.	Nos	26				
ii	Erection of pole with supply and installation of junction box and terminals	Nos	26				
iii	Painting of poles including bracket two coat of red oxide(Berger/Asian paint make) & two coats of Alluminium paint of Shalimar make.This also includes removal of rust or foreign particles on poles by using wire brush etc.the supply of wire brushes,paints etc. are in the scope of the contractor.no any material for this work will be issued by the corporation.	Nos	26				

iv	Earthing of pole by supply of 32mm x 2.5 mtrs long MS rod GI conduit & pipe .any excavation if reqd. are in the scope of the contractor.any work or supply involved for pole earthing are in the scope of the contractor without extra cost.	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(760x500)mm, back filling, providing top & side bricks(16 bricks/mtr.) and sand etc protection as per norms. any road cutting/bolder cutting and finishing the road to its original shape are in the scope of the contractor without extra cost.	Mtrs	750				
4	do- but through 50mm GI pipe.Supply of pipe will be in the scope of contractor.	Mtrs	100				
5	Supply & Laying of 2X1C - 2.5mm 2+ 1 X 1/C- 1.5mm2PVC insulated flexible copper cable from pole junction box to luminaire including connection and all accessories as per instruction of Engineer -in charge.	Mtrs	400				

6	Supply & Fixing of outdoor type automatic street lighting panel having distribution with MCBs & Contactors (ML-4), isolators,connectors,separate terminals,stand for fixing etc.This also includes supply, fixing(grouting or any other civil work involved are in the scope of the contractor) & connection of light sensor photo cell / time switch with the control panel.The complete drawing should be approved before supply.	Nos.	1				
7	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 excavation and back filling with bricks(16 bricks/mtr) and sand protection (quality of sand and bricks will be approved by UCIL) Cable of size 3 1/2 C x 35 sqmm Al.any road cutting/bolder cutting and finishing the road to its original shape are in the scope of the contractor without extra cost.	Mtrs	500				
8	Do but through 150 mm G.I including supply of G.I. pipe 50/120/185 sqmm cable Including supply of GI pipe 50/120/185 sqmm cable.	Mtrs	50				

9	Finishing of 1.1 KV grade PVC stranded AL. conductor cable by tinned copper lugs and crimping including connections. This also all including supply of cable lugs(comet/dowells make) and DC Glands(comet/dowells make)						
	a) 2 core x. 16 sqmm Al. cable	Nos.	90				
	b) 3 1/2 C x 35 sqmm Al cable	Nos.	10				
10	Erection of outdoor type Power Feeder Pillar Box suitable for 415Volt,3-phase,4-wire system with 250Amps TPN I/C SFU of L&T make and 4 nos. outgoing feeders with 63 Amps TP MCBs of Standard Make and Aluminium busbars of 250Amps capacity 35 Sqmm copper wires shall be used for connections from busbars to outgoing MCBs.Erection includes preparing complete foundation and grouting with supply of hardwares.	Nos.	1				

11	Supply & Intallation of Earth Pit using pipe (with supply of pipe)earth electrodes as per latest IS amendments . This includes supply & fixing of earth connections with 4SWG GI wire and necessary nuts, bolts, washers etc & restarting the souce to original finish.This includes supply of salt & charcoal.the earth pit shall be strictly in accordance with latest IS. the earth electrodes should be interconnected	Nos.	8				
12	Supply & Laying of 25 x 6 mm GI stips underground (500mm) below ground includuing 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	300				
	<b>TOTAL</b>						