

OFFICE OF THE NAGAR NIGAM BHILAI ZONE NO-05.

NIT

DETAILED ESTIMATE NAME : - ERECTION OF ELECTRIC POLE FOR PROVIDING LIGHT AND BENCHES.

AT ZONE NO.05 WARD NO 55 SATNAM SAMAJ BHAWAN PREMISES.

ESTIMATE HAS BEEN PREPARED AS PER ELECTRICAL SOR W.E.F. 2015

S.N	ITEM DESCRIPTION	QTY	UNIT
1	Designing and providing suitable RCC foundation in Cement Concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) for 3 mere to 12 metre high GI octagonal pole including steel reinforcement (minimum 90kg per cum), form work, embedding 2 nos 50mm dia PVC pipe for cable entry in each foundation, excavation disposal of surplus soil and curing etc. as required. (.60*.60*1.00*10) Excavation (column) STREET LIGHT ELECTRICAL	5.4	CUM
2	Supplying and fixing of 32mm dia x 2 metre long G.I pipe (light) bracket for mounting street light fittings of all types on poles including bending the pipe to the required shape, 2 Nos 40x3mm flat iron clamps with bolts and nuts including wiring with 1.5 sq. mm W.P /PVC wire etc. as required.	15	EACH
3	Erection of STEEL TUBULAR or "H" BEAM/ ISMB pole in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation and cement concrete collar of size 0.4 metre dia and 0.50 metre height from ground level including excavation and refilling etc. as required of length:5.0*6.5 mts	15	EACH
4	Painting of following height steel tubular poles with two coat of approved colour and shade synthetic enamel paint including cleaning the surface as required: upto 6mts LT CABLE AND TERMINATION	15	EACH
5	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. 4*10 SQM	180	MTS
6	Supplying and fixing water tight terminal box made of 1.6mm thick M.S. sheet with detachable gland plate in bottom, hinged front open able cover, rubber gasket, having 1 Nos 4way connector and 1 No SPMCB inside the box for cable connection, fixed to pole with 2 Nos clamp made from 40x3mm M.S. flat with 2 No nut bolt dully painted with 2 coat of red oxide paint and 2 coat aluminium paint complete as required.20*15*15	15	EACH
7	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as required.2*10 SQ.MM(22MM)	30	NOS

8	Providing following size ISI marked FR PVC insulated, PVC sheathed, flexible copper conductor cable.2.5 sq. mm three core	120	MTS
9	Supplying and laying ISI marked double wall HDPE pipe (IS 14930 Part II) having corrugation on the outer wall and plan surface on inner wall in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required.180MM OUTER DIA FOR HT AND LT	225	MTS
10	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as required.	2	SET
11	Supplying and laying 25 mm X 6 mm G.I. strip at 0.50 metre below ground as strip earth electrode, including soldering, excavation and refilling the trench etc. as required.	15	MTR
12	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including soldering, excavation and refilling the trench etc. as required.	15	MTR
13	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 5 KV surge protection on pole bracket complete as required and furnishing 2 Yrs Guarantee certificate from manufacturer. 60 watt	15	EACH
	NON SOR		
14	Providing and fixing cast iron bench made up of 13 ms square tubes(50mm*25mm) in length of 1500 mm size decorative stand legs bearing capacity of 170kg.	11	EACH

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