

**ESTIMATE FOR CONSTRUCTION OF CABLE TRENCH AT 132/33KV, 2X20MVA LAD NONGKREM (MAWLYNDEP)
SUB STATION.**

<i>Sl.No</i>	<i>Description of works</i>	<i>Qty</i>	<i>Unit</i>	<i>Rate (Rs)</i>	<i>Amount (Rs)</i>	<i>Remarks</i>
1	<p>Earth work in excavation in foundation trenches including dressing of sides ramming of including stacking of serviceable stones , disposal and removal of excavated earth within a lead of 50m and lift of 1.50m complete as directed.</p> <p>a) in ordinary soil .</p> <p>Main Trench:- $170.00 \times 1.40 \times 1.30 = 309.40 \text{ m}^3$</p> <p>Branch Trench :- $180.00 \times 1.00 \times 0.90 = \underline{162.00} \text{ m}^3$</p> <p>Total = 471.40 m³</p>	471.40	m ³			
2	<p>Providing brick soling in foundation and used floor with stone/best quality picked jhama brick,sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering,complete.</p> <p>(c) Stone soling of thickness 100mm</p> <p>Main Trench :- $170.00 \times 1.40 = 238.00 \text{ m}^2$</p> <p>Branch Trench :- $180.00 \times 1.00 = \underline{180.00} \text{ m}^2$</p> <p>Total = 418.00 m²</p>	418.00	m ²			
3	<p>Plain cement concrete floor base in prop 1:3:6 laid in alternate bays as specified with coarse aggregate of size 13mm to 32mm including dewatering if necessary and curing etc complete.</p> <p>(b) 50mm thick in prop 1:3:6</p> <p>Main Trench :- $170.00 \times 1.40 = 238.00 \text{ m}^2$</p> <p>Branch Trench :- $180.00 \times 1.00 = \underline{180.00} \text{ m}^2$</p> <p>Total = 418.00 m²</p>	418.00	m ²			
4	<p>Supplying,fitting and fixing in position reinforcement bars upto 1st floor level conforming to relevant I.S code for R.C.C work/R.B walling including straightening,cleaning,cutting and bending to proper shapes and length as per details supplying and binding with 20G annealed black wire and placing in position with proper blocks,supports,chairs,spacers etc complete(Rates inclusive of all wastages,lapping,hooks,chairs,anchorage etc and no measurement for the same is required.</p> <p>(b) Other ISI approved TMT reinforcement bar(of SAI/BISCON/XTECH/THERMAX make or equivalent)</p> <p>10mm dia (Main Trench Slab) :- $(170.00/0.10 \times 1.40) + (1.40/0.10 \times 170.00) = 4760.00 \text{ rm}$</p> <p>10mm dia (Branch Trench Slab) :- $(180.00/0.10 \times 1.00) + (1.00/0.10 \times 180.00) = 3600.00 \text{ rm}$</p> <p>Total = 8360.00 rm @ 0.62 Kg/m = 5183.20 Kg or 51.83 Qntl</p>	51.830	Qntl			

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5	<p>Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundtion bed for footing steps,walls,brick works etc as directed and specified including dewatering if necessary and curing complete(shuttering where necessart shall be measured and paid separately)</p> <p>(a) in prop 1:3:6 (i cement:3 coarse sand:6 coarse agg. by volume(using mixture machine).</p> <p>Main Trench :- $170.00 \times 1.40 \times 0.10 = 23.80 \text{ m}^3$</p> <p>Branch Trench $180.00 \times 1.00 \times 0.10 = \underline{18.00} \text{ m}^3$</p> <p>Total = 41.80m³</p>	41.80	m ³			
6	<p>Providing form work of ordinary timber planking of thickness not less than 25mm and removal of the same for concrete members so as to give a rough finish including centering,shuttering,rrutting and propping etc for height of propping and centering of supporting floor to the softfit of concrete member not exceeding 4.0M as specified for the following items.</p> <p>(a)Foundation,footings,bases of columns,pile cap,raft and mass concrete works etc</p> <p>Main Trench:- $2 \times 170.00 \times 0.10 = 34.00 \text{ m}^2$</p> <p>Branch Trench:- $2 \times 180.00 \times 0.10 = \underline{36.00} \text{ m}^2$</p> <p>Total = 70.00 m²</p>	70.00	m ²			
7	<p>Brick nogged wall with 1st class brick in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level</p> <p>(a)Half brick(112mm) thick 1st class brick nogged wall</p> <p>(iv)In proportion 1:6(1 cement:6 Sand)</p> <p>Main Trench :- $2 \times 170.00 \times 1.135 = 385.90 \text{ m}^2$</p> <p>Branch Trench :- $2 \times 180.00 \times 0.735 = \underline{264.60} \text{ m}^2$</p> <p>Total =650.50 m²</p>	650.50	m ²			
8	<p>10mm thck cement plaster in single cot on rair side or brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed .</p> <p>(a) In cement mortar 1:3</p> <p>Main Trench:- $(2 \times 170.00 \times 1.135) + (170.00 \times 1.15) = 581.40 \text{ m}^2$</p> <p>Branch Trench:- $(2 \times 180.00 \times 0.735) + (180.00 \times 0.75) = \underline{399.60} \text{ m}^2$</p> <p>Total = 981.00 m²</p>	981.00	m ²			

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9	Structural steel works in single sections including cutting, hoisting, fixing in position and applying a priming coat of red lead paint from plinth level including drilling holes, supplying, fitting and fixing with bolts and nuts or welding if necessary as directed. (c) In M.S angles, channels, tees etc Angles :- 30 x 30 x 5 mm Main Trench 170.00/0.50 x 1.40 = 476.00 rm Branch Trench 180.00/0.50 x 1.00 = 360.00 rm Total = 836.00 rm @ 2.2 Kg/m = 1839.20 Kg or 18.392 Qntl	18.392	Qntl			
10	600mmx50mmx2mm thk, hot dip galvanize perforated type cable tray.	170.00	Mtr			
11	300mmx50mmx2mm thk, hot dip galvanize perforated type cable tray.	180.00	Mtr			
12	Joint coupler 150mm x 200mm	170.00	Mtr			
13	Joint coupler 50mm x 200mm	180.00	Mtr			
		Total		Rs		