

BILL OF QUANTITY AND PRICE SCHEDULE

Name of Project

: 220 KV Substation at Rayalseema

Name of Work

: Civil works of 220kV Transmission Lines, S/y Tower

S.No.	Description of Item	Unit	Unit Rate(Rs)	QTY	Amount(Rs)
				TOTAL	TOTAL
1	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30cm in depth 1.5m in width as well as 10sqm on plan) including dewatering as necessary of rain water/subsoil seepage water and disposal of excavated earth upto 100m and lift upto 3.5m, disposed earth to be levelled and neatly dressed.				
(a)	All kinds of soil.	cum	155.60	3950	614620
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc., in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 100m and lift upto 3.5m.	cum	112.40	2600	292240
3	Carriage & disposal of surplus excavated earth/rock beyond initial lead by mechanical means not necessarily all the times on pucca roads, including loading, unloading, dressing of excavated material, etc., complete as per specifications -.				
(a)	Lead upto 1 km.	cum	99.44	1400	139216
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.				
(a)	M 7.5(1:4:8 nominal mix).	cum	4301.15	130	559150
5	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for RCC structural elements including roads excluding the cost of centering, shuttering, finishing and reinforcement including admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability. - M25 grade reinforced cement concrete by using minimum 330kg of cement per cum of concrete.				
(a)	All works upto plinth level	cum	6296.15	840	5288766
6	Centering and shuttering including strutting, propping, etc., and removal of form for:				
(a)	Foundations, footings, bases of columns, etc., for mass concrete.	sqm	196.45	790	155196
(b)	Columns, Pillars, Piers, Posts and Struts .	sqm	453.35	370	167740
(c)	RCC walls at all levels (any thickness).	sqm	360.80	4220	1522576

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7	Steel reinforcement -Cold twisted bars /TMT- Fe 500 (To be procured from SAIL,TISCO,IISCO, JINDAL STEEL and RINL only)				
(a)	Including supply, straightening, cutting and bending, binding (i/c cost of binding wire), placing in position, etc., all labour & material, complete.	kg	68.10	85150	5798715
8	Fixing of stub angles in position with necessary arrangements as per drawing and directions of Engr-in-Charge including template fixing,alignment and removal of template including all T&P, labour etc.(Templates shall be provided by BHEL free of cost. Weight of stub only shall be measured for payment of this item.)	kg	36.40	4450	161980
9(a)	Providing and fixing (all dia & length) foundation bolts in position with help of proper templates including nuts and washers all complete as per specs, drawings & directions of Engr-in-Charge	kg	79.60	1100	87560
9(b)	Extra over Item above for providing galvanised bolts (Mass of zinc coating = 610gms/sqm), nuts & washer	kg	6.30	1100	6930
10	Grouting of block outs, pockets, foundations, bolts holes and underside of base plates with ready mixed grout or grout consisting of 2 parts by weight of sand, 1 part by weight of cement including approved plasticizer, non-shrink admixture, in the required proportion as recommended by manufacturer/Engineer, including placing, curing, cleaning, surface preparation, testing, etc. complete with labour, materials, equipment, handling, testing, etc. all complete as per specifications, drawings and instructions of the Engineer.	cum	12690.00	1.04	13198
11	Providing & fixing in position precast cement concrete trench covers or perforated covers wherever necessary at various elevations in all kinds of work including moulding, formwork, mixing, laying out, compacting and curing, storing, transportation, erection without damage, setting in position with cement and sand mortar, grouting etc all as per specs, drawings and directions of Engr-in-Charge but excluding the cost of reinforcement, inserts, edge angles, etc.				
	Grade of concrete shall be M25	cum	6979.29	130	907308

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12	Structural steelwork welded in built up sections like edge protection angles,insert plates with lugs & framed work including providing, cutting, hoisting, fixing in position/ embedding in concrete and applying a priming coat of approved steel primer all complete.	kg	62.12	8700	540444
13	Supplying, Fabrication and erection of structural steel with mild steel rolled section / built up section / combination of both conforming to IS:2062, pipes conforming to IS:1161/ IS:1239, chequered plate conforming to IS: 3052, in trestles, base plates, splice plates, chequered plate flooring, etc including painting with primer , fabrication, straightening, cutting, bending, grinding, machining, drilling, welding, electrodes and other consumables, alignment, erection bolts & nuts (weight of erection bolts, nuts and welds not payable), assembly, edge preparation, preheating , inspection of welds, visual inspection, rectification and correction of defective welding works,etc all complete.	MT	64.97	60000	3898200
11	6 mm plaster of mix: 1:3 (1 cement:3 fine sand)	sqm	134.70	20	2694
12	Neat cement punning.	sqm	41.40	20	828
					20157359

NOTES:

- 1 The approximate lengths of 220kV Transmission lines is 0.73 KM. Locations of tower foundations shall be as per drawing.
- 2 Bidders are advised to visit the site before submitting the offer.
- 3 The approximate lengths of cable trench is 917m.
- 4 The approximate lengths of cable trestle is 100m.