

**BILL OF QUANTITIES**

**Name of Project** : 765/400kV Substation at Raichur.  
**Name of Work** : Civil works of yard foundations, cable trenches, etc.

Item No.	Description of Item	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
<b><u>A WORKS BASED ON EMPLOYER/BHEL SUPPLIED DRAWINGS</u></b>					
1	Excavation in all types of soil and rock including backfilling disposal etc. for all leads and lifts	Cu Mtr	42700		
2	Providing and laying of Plain Cement Concrete (PCC) (1:4:8)	Cu Mtr	1110		
3	Providing and laying of Plain Cement Concrete (PCC) (1:2:4)	Cu Mtr	50		
4	Providing and laying of Reinforced Cement Concrete (M25) including pre cast, shuttering, Grouting of pockets & underpinning but excluding steel reinforcement	Cu Mtr	8220		
5	Providing and laying Plain Cement Concrete 1:5:10 (1 cement : 5 sand : 10 brick aggregate)	Cu Mtr	50		
6	Steel reinforcement -Cold twisted bars /TMT- Fe 500 (To be procured from SAIL,TISCO, IISCO, RINL or rerollers approved by main producers.)				
(a)	Including supply and straightening, cutting, bending, binding, (i/c cost of binding wire), placing in position, etc., all labour & material, complete.	MT	30		
(b)	Excluding supply but including straightening, cutting,bending, binding, (i/c cost of binding wire), placing in position, etc., all labour & material, complete.(See Note 4)	MT	610		
7	Misc. Structural steel including rails, embedments, edge protection angles, gratings etc. but excluding the reinforcement steel and steel for lattice and pipe structures.	MT	160		
8.0	Supplying & laying hume pipe of grade (NP-3) excluding concrete and reinforcement				
(a)	250 mm dia	RM	20		
(b)	300 mm dia	RM	60		
(c)	450 mm dia	RM	10		
(d)	600 mm dia	RM	10		
9.0	Supplying and dewatering pumps				
(a)	5 HP	Nos	2		
(b)	0.5 HP	Nos	2		
9	Fixing (all dia & length) foundation bolts in position with help of proper templates including nuts and washers all complete as per drawings & directions of Engr-in-Charge. (See Note No:3)	MT	113		
<b>Total Amount</b>					

**Note:**

- The rates shall be deemed to be inclusive of cost against all activities covered in specification & drawings against that item.
- PGCIL drawings provided may not be totally exhaustive. Any minor details required as per site requirement or for the sake of system completion shall be issued by PGCIL during construction stage. The rates shall be deemed to be inclusive of such contingencies.
- For Item No: 9 foundation bolts shall be supplied by BHEL free of cost at site. Fixing shall be paid under Item No:9
- For Item No : 6(b) reinforcement steel shall be supplied by BHEL **free of cost** as per norms indicated in conditions of contract. The rate quoted against Item No: 6 (b) above shall be deemed to be inclusive of cost against all activities required including transportation of material from (SAIL,TISCO, IISCO, RINL or rerollers approved by main producers) stockyard.