

ANNEXURE-I

BILL OF QUANTITIES

Name of Project : 765/400kV Substation at Raichur.

Name of Work : Yard & Building Civil Works

Item No.	Description of Item	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
A WORKS BASED ON EMPLOYER/BHEL SUPPLIED DRAWINGS					
1	Excavation in all types of soil and rock including backfilling disposal etc. for all leads and lifts	Cu Mtr	46000		
2	Providing and laying of Plain Cement Concrete (PCC) (1:4:8)	Cu Mtr	1350		
3	Providing and laying of Plain Cement Concrete (PCC) (1:2:4)	Cu Mtr	580		
4	Providing and laying of Reinforced Cement Concrete (M25) including pre cast, shuttering, Grouting of pockets & underpinning but excluding steel reinforcement	Cu Mtr	9600		
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 rollers 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	40		
(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	760		
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		
10.0	Supplying and laying of external water supply system				
(a)	80 mm dia pipe	RM	100		
(b)	50 mm dia pipe	RM	200		
(c)	40 mm dia pipe	RM	100		
(d)	25 mm dia pipe	RM	100		
11.0	External sewerage system				
(a)	NB 150mm	RM	200		
12	All civil works as per drawing and specification but excluding excavation, PCC, RCC, reinforcement and external finishing of the following buildings				
(a)	Control Room Building	No	1		
(b)	FFPH Building	No	1		
(c)	Water Tank for fire fighting	No	1		
(d)	Transit camp	No	1		
(e)	Car Parking shed				
(i)	for 8 cars	No	1		
(f)	Switchyard Panel Room				
(i)	765 kV	Nos	3		
(ii)	400 kV	Nos	4		
13	External finish as per specification for following buildings:				
(a)	Control Room Building	No	1		
(b)	FFPH Building	No	1		
(c)	Transit camp	No	1		

Item No.	Description of Item	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
(d)	Car Parking shed				
(i)	for 8 cars	No	1		
(f)	Switchyard Panel Room				
(i)	765 kV	Nos	3		
(ii)	400 kV	Nos	4		
14	Septic Tank and soak pit complete as per the drawing				
(a)	Transit camp	LS	1		
(b)	Control Room Building	LS	1		
15	Rain water harvesting	LS	1		
16	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	115		
	Total Amount (Rs.)				

Note:

- 1 The rates shall be deemed to be inclusive of cost against all activities covered in specification & drawings against that item.
- 2 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.
- 3 For Item No: 16 foundation bolts shall be supplied by BHEL free of cost at site. Fixing shall be paid under Item No:16
- 4 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.