

BILL OF QUANTITY

Name of Project

: 400/220kV Substation at Aurangabad.

Name of Work

: Yard Civil Works

Item No.	Description of Item	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
A	<u>WORKS BASED ON EMPLOYER/BHEL SUPPLIED DRAWINGS</u>				
(i)	Excavation in all types of soil and rock including backfilling disposal etc. for all leads and lifts	Cu.Mtr.	35,938		
(ii)	Providing and laying of Plain Cement Concrete (PCC) (1:4:8)	Cu.Mtr.	2,826		
(iii)	Providing and laying of Plain Cement Concrete (PCC) (1:2:4)	Cu.Mtr.	1,141		
(iv)	P/L of RCC as per specification	Cu.Mtr.	8,050		
(v)	Providing and laying Plain Cement Concrete 1:5:10 (1 cement : 5 sand : 10 brick aggregate)	Cu.Mtr.	5,880		
(vi)	Steel Reinforcement	MT	430		
(vii)	Stone filling (40 mm size) for transformer/reactor foundation	Cu.Mtr	56		
(viii)	Misc. Structural steel including rails, embedments, edge protection angles, gratings etc. but excluding the reinforcement steel and steel for lattice and pipe structures.	MT	126		
(ix)	Stone spreading in switchyard				
(a).	Stone spreading and antiweed treatment in switchyard excluding PCC	Sq. m.	78,300		
(x)	Concrete road (including all crossings) as per drawing except reinforcement & concrete				
(a)	Road 3.75m wide (switchyard road)	sq.m	9,452		
(b)	Road 5.5m wide (switchyard road)	sq.m	2,585		
(xi)	Chain link fencing				
(a)	Chain link fencing excluding concrete	RM	1,100		
(xii)	Gate excluding Concrete	Nos.	2		
(xiii)	Supplying and laying external water supply system				
(a)	80mm dia	m	50		
(b)	50mm dia	m	100		
©	40mm dia	m	100		
(d)	25mm dia	m	200		
(xiv)	Supplying & laying hume pipe of grade (NP-3)				
(a)	250mm dia	RM	50		
(b)	300mm dia	RM	560		
©	450mm dia	RM	100		
(d)	600mm dia	RM	60		
(xv)	Supplying and erecting dewatering pumps				
(a)	0.5 HP	Nos.	6		
(b)	5 HP	Nos.	2		
(xvi)	Drain including culverts but excluding concrete & reinforcement steel				
(a)	Section A-A	RM	1,000		
(b)	Section B-B	RM	500		
©	Section C-C	RM	300		
(d)	Section D-D	RM	200		
xvii)	Providing and laying of SWP pipes for external sewage system as per technical specification				

ANNEXURE-I

TB-347-607-003 PKG II

Rev. 00

Item No.	Description of Item	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
(a)	100 mm dia	RM	400		
(b)	150mm dia	RM	550		
©	200 mm dia	RM	50		
xviii)	Buried Cable Trenches for Auxiliary Power arrangement	M	125		
(xix)	Construction of rail cum road as per drawing including all item such as excavation, compactions, rolling watering, WBM etc. but excluding concrete reinforcement and structural steel				
(a)	Section having four rails	RM	28		
(b)	Section having two rails	RM	56		
(xx)	Leveling (Not in Bidder's Scope)				
(a)	Earthwork in cutting/filling of existing ground	CuM	0		
(b)	Earthwork in Filling by borrowed	CuM	0		
(xxi)	For Underground Drainage System				
(a)	100mm dia R.C.C. pipe	RM	100		
(b)	150mm dia R.C.C. pipe	RM	100		
©	200mm dia R.C.C. pipe	RM	100		
(d)	250mm dia R.C.C. pipe	RM	100		
(e)	300mm dia R.C.C. pipe	RM	250		
(f)	450mm dia R.C.C. pipe	RM	150		
(g)	600mm dia R.C.C. pipe	RM	200		
(h)	900mm dia R.C.C. pipe	RM	100		
(i)	1000mm dia R.C.C. pipe	RM	100		
(j)	1100mm dia R.C.C. pipe	RM	50		
(k)	1200mm dia R.C.C. pipe	RM	50		
(xxii)	All civil works as per drawing and specification but excluding excavation, PCC, RCC, reinforcement for the following buildings				
(a)	FF PH Building excluding external finish	LS	1		
(b)	Water Tank including internal finish	LS	1		
©	Switchyard panel room(11 nos)	LS	1		
(xxiii)	External finish as per specification for following buildings:				
(a)	FF PH Building	LS	1		
(b)	Switchyard panel room(11 nos)	LS	1		
(xxiv)	Rain water Harvesting excluding reinforcement and concrete as per drawing	LS	1		
(xxv)	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.	MT	51		
	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	Foundation bolts shall be supplied by BHEL free of cost at site. Fixing shall be paid under item No. A(xxv)				