

Bill of Quantity-cum-Price Schedule					
Name of Project			: +/- 800kV NE AGRA HVDC PROJECT		
Name of Work			Civil Works for DC Hall Pole 4 & 2 Building Foundations		
S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
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.	8000	cum	146.50	1172000.00
2	Extra for every additional lift of 1.5m or part thereof				
(a)	All kinds of soil.	3000	cum	41.75	125250.00
3	Filling available excavated earth (including 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.	6800	cum	101.50	690200.00
4	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.	2500	cum	101.27	253175.00
(b)	Lead upto 3 km.	1000	cum	128.06	128060.00
(c)	Lead upto 5 km.	700	cum	153.30	107310.00
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.				
(a)	1:2:4 (1 cement : 2coarse sand : 4 graded stone aggregate 20mm nominal size)	5	cum	4921.70	24608.50
(b)	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size)	5	cum	4230.50	21152.50
(c)	1:4:8(1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	265	cum	3920.65	1038972.25
6	Extra for providing and mixing water proofing material 'Impermo' or equivalent in cement concrete work in the proportion recommended by the manufacturer.	50	kg	44.36	2218.00
7	Centering and shuttering including strutting, propping, etc., and removal of form for:				
(a)	Foundations, footings, bases of columns, etc., for mass concrete.	2000	sqm	186.40	372800.00
(b)	Lintels,beams,plinth beams and cantilevers.	600	sqm	309.80	185880.00
(c)	Columns, Pillars, Piers, Posts and Struts .	2000	sqm	423.00	846000.00
8	Steel reinforcement -Cold twisted bars /TMT- Fe 500/500D.				

S.No.	Description of Item	Quantity	Unit	Unit Rate(Rs)	Amount(Rs)
(a)	Including supply (To be procured from SAIL/RINL/TISCO/IISCO) and straightning, cutting, bending, binding (i/c cost of binding wire), placing in position, etc., all labour & material, complete.	10000	kg	66.50	665000.00
(b)	Excluding supply but including transporting from SAIL stockyard to site, straightening, cutting, bending, binding, (i/c cost of binding wire), placing in position, etc., all complete as per specification and directions of Engineer-in-Charge. (Reinforcement shall be supplied by BHEL as per conditions of contract)	385000	kg	8.03	3091550.00
9	Providing and laying in position machine batched and machine mixed design mix M25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but 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 as per direction of Engineer-in-charge. (Note Cement content considered in this item is 330kg/cum. Excess/less cement used as per design mix is payable/recoverable separately)				
(a)	All works upto plinth level	4150	cum	5704.45	23673467.50
10	Add for using extra cement in the items of design mix over and above the specified cement content therein	3100	quintal	619.65	1920915.00
11	Fixing (all dia & length) foundation bolts in position with help of proper templates(template to be supplied by contractor) including nuts and washers all complete as per specs, drawings & directions of Engr-in-Charge. (The dia of foundation bolts shall generally be 80mm, 63mm,56mm etc with length upto 2.4m)	170000	kg	11.21	1905700.00
12	Grouting of block outs, pockets, foundations, bolts holes and underside of base plates with cement, sand aggregate (of size 6 mm and down) grout 1:1:2 with non-shrink additive and shall be of strength not less than M30 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.	20	cum	20412.50	408250.00
	TOTAL				36632508.75