

BHARAT HEAVY ELECTRICALS LIMITED JHANSI

FACTORY CIVIL DEPARTMENT

Scope of civil work for cooling system and allied foundation works

Name of work - Civil work for Cooling system and allied foundation work of 160MVA Transformer at Tentransco.

S. No.	DESCRIPTION OF ITEM	Unit	Qty
1	By Mechanical Transport including loading, unloading and stacking Lime, moorum, building rubbish upto 1 km .	Cum	3.00
2	By Mechanical Transport including loading, unloading and stacking Earth upto 1 km .	Cum	11.00
3	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil	Cum	35.00
4	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. - ordinary rock	Cum	7.00
5	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 up to 50 m and lift upto 1.5 m.	Cum	14.34
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).	Cum	4.00
7	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 -coarse sand - 20 mm stone aggregate)	Cum	15.00
8	Centering and shuttering including strutting, propping etc. and removal of form for all heights : Foundations, footings, bases of columns, etc. for mass concrete	Sqm	55.00
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	787.00

10	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete. (Bolt shall be provided by BHEL free of cost)	Kg	967.00
11	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	Cum	3.00
12	Providing & laying 40 mm aggregate	Cum	6.00

Note: These quantities are tentative and may vary as per actual requirement at site for completion of work.