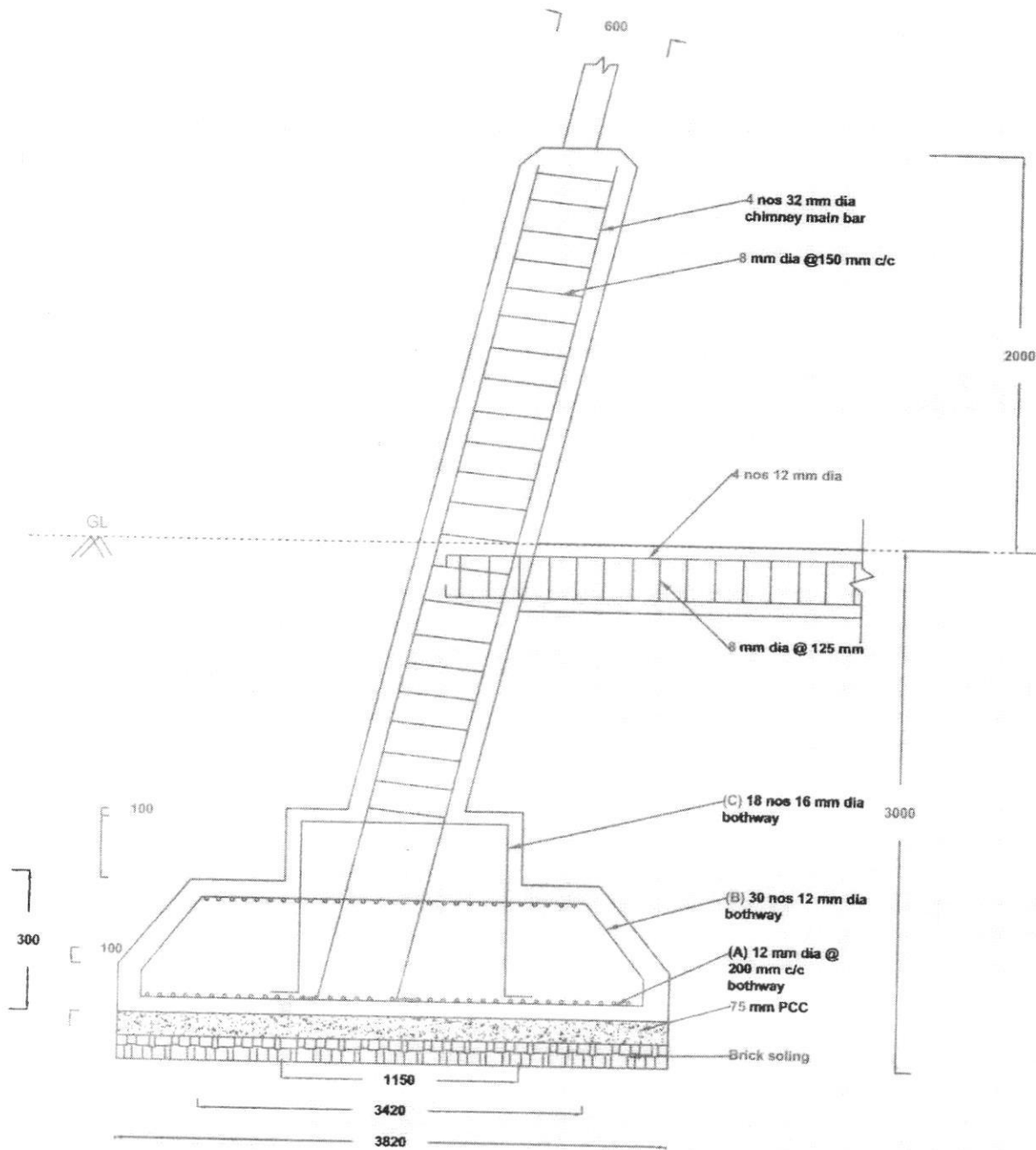


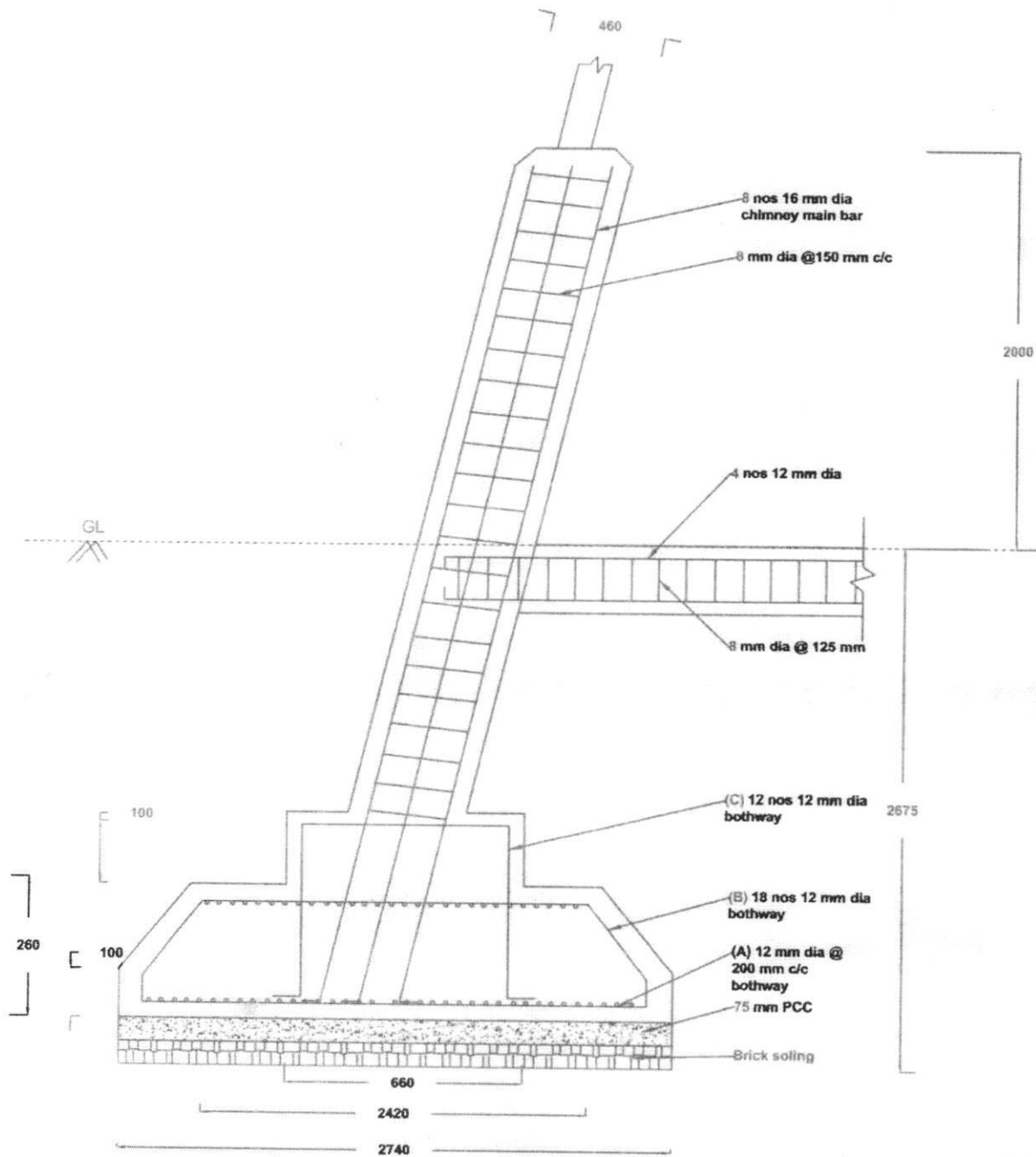
DRAWING OF TOWER FOUNDATION at LOC NO-193 (DB+3, FS) OF 132 kV NATHKUCHI-BARNAGAR TL



Notes:

1. Dimensions not to scale
2. All dimensions are in mm
3. Concrete mix used M20

DRAWING OF TOWER FOUNDATION at LOC NO-194 (DA+0, FS) OF 132 kV NATHKUCHI-BARNAGAR TL



Notes:

1. Dimensions not to scale
2. All dimensions are in mm
3. Concrete mix used M20

Name of Work:- Construction of tower foundation at loc no-193 (DB+3, FS) of 132 kV Nathkuchi-Barnagar line.

Sl. No.	Description of Item	Qty	Unit
1	Detail & check survey as per specification	0.326	km
2	Mobilization (including preparation of work space, Approach road, dewatering, arrangement of electricity, jungle clearing, earth filling and making all arrangement for completion of the work) and construction and supply of all materials & labours of temporary island/platform to facilitate the construction of foundation including platform for storage of construction materials such as stone chips, sand, cement, steel reinforcement bar, mixture machines, tools & plants all foundation materials keeping & mixing.	1	job
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m 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 soil as directed, within a lead of 50 m. All kinds of soil		
	4 x 4.120 x 4.120 x 3.075 = 208.785 Total = 208.785	208.79	cum
4	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) derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources) PCC		
	4 x 3.82 x 3.82 x 0.075 = 4.378 4 x 0.30 x 6.738 x 0.075 = 0.606 Total = 4.984	4.98	cum
5	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks. Brick soling.		
	4 x 3.82 x 3.82 = 58.37 4 x 0.30 x 6.738 = 8.09 Total = 66.46	66.46	sqm
6	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.		
	Pad reinforcement-A (12 mm) 4 x 40 x 3.820 x 0.89 = 543.968 Pad reinforcement-B (12 mm) 4 x 30 x 3.803 x 0.89 = 406.160 Pad reinforcement-C (16 mm) 4 x 18 x 1.750 x 1.58 = 199.080 Chimney main bar-D (32 mm) 4 x 4 x 5.778 x 6.31 = 583.347 Chimney square spacer-E (8 mm) 4 x 35 x 1.440 x 0.395 = 79.632 Tie beam main bar-F (12 mm) 4 x 4 x 8.138 x 0.890 = 115.885 Tie beam spacers-G (8 mm) 4 x 52 x 1.044 x 0.395 = 85.775 Total = 2013.847	2013.847	kg
7	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)		
	4 x 3.820 x 3.820 x 0.100 = 5.837 4 x 3.820 + 3.420 x 0.150 x 2.740 = 5.951 4 x 1.150 x 1.150 x 0.100 = 0.529 4 x 0.600 x 0.600 x 4.600 = 6.624 4 x 0.350 x 0.300 x 6.738 = 2.830 Total = 21.771	21.771	cum
8	Centering and shuttering including strutting, propping etc. and removal of form for Columns, Pillars, Piers, Abutments, Posts and Struts		
	4 x 4 x 3.820 x 0.300 = 18.34 4 x 4 x 1.15 x 0.100 = 1.84 4 x 4 x 4.60 x 0.600 = 44.16 4 x 2 x 0.35 x 6.738 = 18.87 4 x 4.12 x 4.120 = 67.90 = 151.10	151.10	sqm
9	15 mm cement plaster on rough side of single or half brick wall of mix: 1:4 (1 cement: 4 coarse sand)		
	4 x 4 x 0.60 x 2.00 = 19.200 2 x 3 x 0.35 x 6.74 = 14.150 2 x 3 x 0.30 x 6.74 = 12.128 = 45.480	45.480	sqm
10	Setting of stubs (sets of four) including transportation & distribution of stub and accessories from store to site excluding the cost of excavation, concreting & back filling.	1	set

Name of Work:- Construction of tower foundation at loc no-194 (DA+0, FS) of 132 kV Rangia-Barnagar line.

Sl. No.	Description of Item	Qty	Unit
1	Detail & check survey as per specification	0.309	km
2	Mobilization (including preparation of work space, Approach road, dewatering, arrangement of electricity, jungle clearing, earth filling and making all arrangement for completion of the work) and construction and supply of all materials & labours of temporary island/platform to facilitate the construction of foundation including platform for storage of construction materials such as stone chips, sand, cement, steel reinforcement bar, mixture machines, tools & plants all foundation materials keeping & mixing.	1	job
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m 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 soil as directed, within a lead of 50 m. All kinds of soil		
	4 x 3.040 x 3.040 x 2.675 = 98.885 Total = 98.885	98.89	cum
4	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) derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources) PCC		
	4 x 2.74 x 2.74 x 0.075 = 2.252 4 x 0.30 x 6.75 x 0.075 = 0.608 Total = 2.860	2.86	cum
5	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks. Brick soling.		
	4 x 2.74 x 2.74 = 30.03 4 x 0.30 x 6.15 = 7.38 Total = 37.41	37.41	sqm
6	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.		
	Pad reinforcement-A (12 mm) 4 x 26 x 2.740 x 0.89 = 253.614 Pad reinforcement-B (12 mm) 4 x 18 x 2.690 x 0.89 = 172.375 Pad reinforcement-C (12 mm) 4 x 12 x 1.180 x 0.89 = 50.410 Chimney main bar-D (16 mm) 4 x 8 x 5.345 x 1.58 = 270.243 Chimney square spacer-E (8 mm) 4 x 28 x 1.440 x 0.395 = 63.706 Tie beam main bar-F (12 mm) 4 x 4 x 6.750 x 0.890 = 96.120 Tie beam spacers-G (8 mm) 4 x 45 x 1.044 x 0.395 = 74.228 Total = 980.696	980.696	kg
7	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)		
	4 x 2.740 x 2.740 x 0.100 = 3.003 4 x 2.740 + 2.420 x 0.150 x 2.740 = 4.242 2 4 x 0.660 x 0.660 x 0.100 = 0.174 4 x 0.460 x 0.460 x 4.535 = 3.838 4 x 0.350 x 0.300 x 6.750 = 2.835 Total = 14.092	14.092	cum
8	Centering and shuttering including strutting, propping etc. and removal of form for Columns, Pillars, Piers, Abutments, Posts and Struts		
	4 x 4 x 2.740 x 0.260 = 11.40 4 x 4 x 0.66 x 0.100 = 1.06 4 x 4 x 4.54 x 0.460 = 33.38 4 x 2 x 0.35 x 6.750 = 18.90 4 x 3.04 x 2.675 = 32.53 = 97.26	97.26	sqm
9	15 mm cement plaster on rough side of single or half brick wall of mix: 1:4 (1 cement: 4 coarse sand)		
	4 x 4 x 0.46 x 2.00 = 14.720 2 x 3 x 0.35 x 6.75 = 14.175 2 x 3 x 0.30 x 6.75 = 12.150 = 41.050	41.050	sqm
10	Setting of stubs (sets of four) including transportation & distribution of stub and accessories from store to site excluding the cost of excavation, concreting & back filling.	1	set