

**PRICE BID****Estimate for construction of 33KV 10MVAR Capacitor bank bay and related works at 132 KV  
Dhemaji GSS**

<b>Sl No.</b>	<b>Item description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate(Rs)</b>	<b>Amount(Rs) inclusive of all taxes</b>
1	Dismantling of 33KV Circuit Breaker with structure (including all necessary associated works)	Set	1		
2	Dismantling of 33 KV Current Transformer with structure (including all necessary associated works)	No	4		
3	Dismantling of 33 KV Isolator with structure (including all necessary associated works)	Set	2		
4	Dismantling of 33 KV Lightning Arrester with structure (including all necessary associated works)	No	3		
5	Dismantling of 33 KV PI with structure (including all necessary associated works)	No	3		
6	Dismantling of 33 KV CR Panel (including all necessary associated works)	No	1		
7	Dismantling of Series Reactor with structure (including all necessary associated works)	No	6		
8	Dismantling of 33 KV Capacitor Bank along with mounting structures (including all necessary associated works) i) 33 kV, 10 MVAR	Set	3		
9	Erection of 33KV Circuit Breaker with structure (including all necessary associated works)	Set	1		
10	Erection of 33 KV Current Transformer with structure (including all necessary associated works)	No	4		
11	Erection of 33 KV Isolator with structure (including all necessary associated works)	Set	2		
12	Erection of 33 KV Lightning Arrester with structure (including all necessary associated works)	No	3		
13	Erection of 33 KV PI with structure (including all necessary associated works)	No	3		
14	Erection of 33 KV CR Panel without SAS (including all necessary associated works)	No	1		
15	Erection of Series Reactor of Capacitor Bank with structure(including all necessary associated works)	No	6		
16	Erection of 33 KV Capacitor Bank along with mounting structures (including all necessary associated works) i) 33 kV, 10 MVAR	Set	3		

17	<p>Loading of Capacitor Bank and terminal bay equipments including mounting structure at Dibugarh GSS.</p> <p>Equipment weight- 7.5 MT</p> <p>Structure weight-7.5 MT</p> <p><u>Cables and Other related items weight-0.5 MT</u></p> <p style="text-align: center;">Total weight- 15.5 MT</p>	MT	15.5		
18	Transportation of Capacitor Bank and terminal bay equipments including mounting structure and other related items like cables etc.	KM	90		
19	Unloading of Capacitor Bank and terminal bay equipments including mounting structure at Dhemaji GSS	MT	15.5		
20	Laying of GI Flat strip with connection to existing earthing system (supply of standard GI Strip)	Mtrs	30		
21	GI Pipe electrode with earthpit (Incl supply) 50mm dia, 3Mtrs Length, 4.5mm thickness including all necessary related works.	No.	4		
22	Construction of cable trench D type.	Mtrs	15		
23	Providing 80mm thick 1:4:8 PCC base of switchyard as per specification & Drawing including supply of all materials and labour.	Sqm	90		
24	Providing 100mm thick gravelling on the switchyard including levelling etc as per directive of site engineer.	Sqm	90		
25	Site preparation including dismantling of 2 nos. unused double RCC pole and storage at proper place.	LS	1		
26	Connection of Jumpers and droppers in all the bay equipments	LS	1		
27	Retrofitting of the mounting structures of the equipments on existing foundations.	LS	1		
<b>Construction of foundation of 33 KV Capacitor bank ,Series Reactor and NCT</b>					
1	<p>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.</p> <p>2.6.1 All kinds of soil</p>	Cum	40.05		

2	<p>Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete</p> <p>4.20.1 All works upto plinth level :</p> <p>4.20.1.1 Concrete of M10 grade with minimum cement content of 220 kg /cum</p>	Cum	1.14		
3	<p>Centering and shuttering including strutting, propping etc. and removal of form for</p> <p>5.9.1 Foundations, footings, bases of columns, etc. for mass concrete.</p> <p>5.9.6 Columns, Pillars, Piers, Abutments, Posts and Struts</p> <p>5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers</p>	sqm	5.64		
		sqm	44.8		
		sqm	2.7		
4	<p>Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.</p> <p>5.22.6 Thermo-Mechanically Treated bars of grade Fe-500D or more.</p>	Kg	597.57		
5	<p>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 :</p> <p>5.1.2 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)</p>	Cum	8.71		
6	<p>Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 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)</p>	Cum	0.9		
7	<p>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.</p>	Cum	31.34		

8	Erection of equipment mounting structure including excavation, construction of foundation, backfilling, compacting and supply of all foundation materials and labour as per supervision of site engineer. i. Construction of foundation of Series Reactor.	No	6		
9	Erection of equipment mounting structure including excavation, construction of foundation, backfilling, compacting and supply of all foundation materials and labour as per supervision of site engineer. ii. Construction of foundation of NCT	No	1		
<b>Supply of armoured Power Cables</b>					
1	2C, 6 sqmm(1100V, AYWY, FR Cable)	Mtr	250		
2	4C, 16 sqmm(1100V, AYFY, FR Cable)	Mtr	250		
<b>Supply of armoured Control Cables (Copper)</b>					
3	4C, 2.5 sqmm(1100V, YWY, FR Cable)	Mtr	250		
4	7C, 1.5 sqmm(1100V, YWY, FR Cable)	Mtr	250		
5	12C, 1.5 sqmm(1100V, YWY, FR Cable)	Mtr	250		
6	19C, 1.5 sqmm(1100V, YWY, FR Cable)	Mtr	250		
Total=					