

BID SHEET FOR FOR CONSTRUCTION OF FOUNDATION AND ERECTION OF 33KV COLUMNS & BEAMS FOR 33KV DHAR PLYWOOD FEEDER AT 132KV EPIP-II GRID SUBSTATION, NORBONG, BYRNIHAT

Sl. No.	Item of Work	Quantity	Unit	Rate (inclusive of 18% GST)	Amount (Rs)
<b>I</b>	<b>FOUNDATION OF 33KV C1 TYPE COLUMNS</b>				
1	Earthwork in excavation by manual means upto a depth of 2m below the existing ground level for foundation trenches of foundations footing of column /walls septic tank etc. including bailing out of water where necessary and removal of surplus earth with all leads and lifts as directed and specified for the following classification of soils. (a) All kinds of soil (ordinary/medium rock/dense soil) $3(2.4 \times 3.0 \times 2.0) = 43.2 \text{ M}^3$	43.20	M <sup>3</sup>		
2	Providing brick soiling in foundation and under floor with stone best quality picked jhama brick, sand and laid to the level in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering complete. (b) Stone soiling of thickness 100mm $3(3.0 \times 2.0) = 18 \text{ m}^2$	18.00	M <sup>2</sup>		
3	Plain cement concrete works in foundation bed for footing steps, wall, brickworks etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately) (a) 1:4:8 (1 cement:4 coarse sand:8 graded stone aggregate 40mm nominal size) In Foundation	2.16	M <sup>3</sup>		
4	Providing and laying in position specified grade of reinforcement concrete, excluding the cost of centering, shuttering, finishing and reinforcement, All work upto plinth level. (a) M15 or prop. 1:2:4 (1 cement : 2 coarse sand : 3 graded stone aggregate 20mm nominal size). Base: $3(2.4 \times 3.0 \times 0.30) = 6.48 \text{ M}^3$ Column: $3(1.75 \times 0.30 \times 0.30 \times 4) = 1.89 \text{ M}^3$ Tie Beam: $3(0.30 \times 0.25 \times 0.25 \times 2) = 0.112 \text{ M}^3$ Tie Beam: $3(0.95 \times 0.25 \times 0.25 \times 2) = 0.356 \text{ M}^3$	8.84	M <sup>3</sup>		
5	Centering and shuttering including strutting, propping etc and removal of form for all heights complete and as directed by Engineer incharge 4.1 Foundation, footings, bases of column set for mass concrete works etc (using steel) Col : $3(1.75 \times 0.30 \times 4 \times 4) = 25.2 \text{ M}^2$ Beam: $3(0.30 \times 0.25 \times 4 \times 2 + 0.95 \times 0.25 \times 4 \times 2) = 7.5 \text{ M}^2$	32.70	M <sup>2</sup>		
6	Supplying and fixing in position reinforcement bars conforming to relevant I.S code for R.C.C. work/R.B walling including strengthening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports cahirss spacers etc, complete. (Rates including of all wastage lappage hooks anchorage and no measurement for the same is required) (a) Mild steel and medium tensile steel bars (a) 10 mm dia - 765.60m or 476.20Kg (b) 16 mm dia - 108.0m or 170.64Kg (c) 12 mm dia - 38.40m or 34.176Kg (d) 6mm dia- 180.12m or 39.63Kg Total including 5% wastage = 756.67Kg or 7.57Qntl	7.57	Qntl		
7	Extra for carriage including loading and unloading and all charges complete beyond the initial lead (for stone aggregate from Killing to EPIP-II GSS) = 20-5 = 15Km (for sand from Sawled to EPIP-II GSS 25.5 = 20 km)				
	Carriage of stone aggregate Km-m <sup>3</sup> (15Km)	145.05	Km/M <sup>3</sup>		
	Carriage of sand Km-m <sup>3</sup> (20Km)	84.80	Km/M <sup>3</sup>		
8	Erection of Super Structure (a) N 1 Type Column = $3 \times 732 = 2196 \text{ Kg}$ or 2.196MT	2.196	MT		
	(b) B 4 Type Beam = $4 \times 280.83 = 1123.32 \text{ Kg}$ or 1.123MT	1.123	MT		
	<b>TOTAL</b>				

Signature of the Bidder

BID SHEET FOR FOR CONSTRUCTION OF FOUNDATION AND ERECTION OF 33KV CIRCUIT  
BREAKER FOR 33KV DHAR PLYWOOD FEEDER AT 132KV EPIP-II GRID SUBSTATION, NORBONG,  
BYRNIHAT

Sl. No.	Item of Work	Quantity	Unit	Rate (inclusive of 18% GST)	Amount (Rs)
1	Earthwork in excavation by manual means upto a depth of 2m below the existing ground level for foundation trenches, foundations, footing of column / walls, septic tank etc. including bailing out of water where necessary and removal of surplus earth with all leads and lifts as directed and specified for the following classification of soils. (a) All kinds of soil (ordinary/medium rock/dense soil)	1.089	M <sup>3</sup>		
2	Providing brick soiling in foundation and under floor with stone best quality picked jhama brick, sand and laid to the level in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering complete. (b) Stone soiling of thickness 100mm	0.81	M <sup>2</sup>		
3	Plain cement concrete works in foundation bed for footing steps, wall, brickworks etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately) (a) 1:4:8 (1 cement:4 coarse sand:8 graded stone aggregate 40mm nominal size)	0.11	M <sup>3</sup>		
4	Providing and laying in position specified grade of reinforcement concrete, excluding the cost of centering, shuttering, finishing and reinforcement, All work upto plinth level. (a) M15 or prop. 1:2:4 (1 cement : 2 coarse sand : 3 graded stone aggregate 20mm nominal size) Footing: 1.1 x 1.0 x 0.10 = 0.11 Column: 0.9 x 0.8 x 1.0 = 0.72 Total 0.83 m <sup>3</sup>	0.83	M <sup>3</sup>		
5	Centering and shuttering including strutting, propping etc and removal of form for all heights complete and as directed by Engineer in charge 4.1 Foundation, footings, bases of column setc for mass concrete works etc (using steel)	3.4	M <sup>2</sup>		
6	Supplying and fixing in position reinforcement bars conforming to relevant I.S code for R.C.C. work/R.B walling including strengthening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports chairs spacers etc, complete. (Rates including of all wastage lappage hooks anchorage and no measurement for the same is required) (b) High Yield Strength Deformed bars or Tor Bars Footing: 10mm=7.13Kg Column 16mm=26.544Kg Column 8mm=6.71Kg Total 40.384Kg or 0.40384Qntl	0.40384	Qntl		
7	Earthwork in filling (excluding rock) in trenches, plinth, side of foundation etc in later not exceeding 20cm thick including breaking of clods, consolidating each layer by ramming and watering, lead up to 50m and lift up to 1.5m. (a) with available excavated earth.	0.266	M <sup>3</sup>		
8	Cement plaster (in coarse sand) Item No. 15.4 12mm cement plaster of mix: (a) 1:4 :1 cement :4 sand)	1.74	M <sup>2</sup>		
9	Extra for carriage including loading and unloading and all charges complete beyond the initial lead (for stone aggregate Killing to 132KV EPIP-II Norbong SS)=20-5=15Km (for sand from Sawlad to 132KV EPIP-II Norbong SS 25-5=20 km)				
	Carriage of stone aggregate (15Km)	13.755	Km-m <sup>2</sup>		
	Carriage of sand (20Km)	8.7846	Km-m <sup>2</sup>		
10	Erection charges of 33KV CB	1	Set		

Total

Signature of the Bidder

BID SHEET FOR FOR CONSTRUCTION OF FOUNDATION AND ERECTION OF 33KV CURRENT TRANSFORMER FOR 33KV DHAR PLYWOOD FEEDER AT 132KV EPIP-II GRID SUBSTATION, NORBONG, BYRNIHAT

Sl. No.	Item of Work	Quantity	Unit	Rate (inclusive of 18% GST)	Amount (Rs)
1	Earthwork in excavation by manual means upto a depth of 2m below the existing ground level for foundation trenches of foundations footing of column /walls septic tank etc. including bailing out of water where necessary and removal of surplus earth with all leads and lifts as directed and specified for the following classification of soils. (a) All kinds of soil (ordinary/medium rock/dense soil)	2.67	M <sup>3</sup>		
2	Providing brick soiling in foundation and under floor with stone best quality picked jhama brick, sand and laid to the level in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering complete. (b) Stone soiling of thickness 100mm	2.43	M <sup>2</sup>		
3	Plain cement concrete works in foundation bed for footing steps, wall, brickworks etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately) (a) 1:4:8 (1 cement:4 coarse sand:8 graded stone aggregate 40mm nominal size)	0.24	M <sup>3</sup>		
4	Supplying and fixing in position reinforcement bars conforming to relevant I.S code for R.C.C. work/R.B walling including strengthening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports chairs spacers etc, complete. (Rates including of all wastage lappage hooks anchorage and no measurement for the same is required) (a) Mild Steel and medium and tensile steel bars Footing: 10mm=16.74Kg Column 12mm=44.856Kg Column 6mm=7.392Kg Total 68.988Kg or 0.689Qntl	0.689	Qntl		
5	Centering and shuttering including strutting, propping etc and removal of form for all heights complete and as directed by Engineer in charge 4.1 Foundation, footings, bases of column setc for mass concrete works etc (using steel)	7.39	M <sup>2</sup>		
6	Providing and laying in position specified grade of reinforcement concrete, excluding the cost of centering, shuttering, finishing and reinforcement, All work upto plinth level. (a) M15 or prop. 1:2:4 (1 cement : 2 coarse sand : 3 graded stone aggregate 20mm nominal size) Footing: 0.243m <sup>3</sup> Column: 1.03m <sup>3</sup> Total 1.273 m <sup>3</sup>	1.273	M <sup>3</sup>		
7	Earthwork in filling (excluding rock) in trenches, plinth, side of foundation etc in layers not exceeding 20cm thick including breaking of clods, consolidating each layer by ramming and watering, lead up to 50m and lift up to 1.5m. (a) with available excavated earth.	1.2	M <sup>3</sup>		
8	Cement plaster (in coarse sand) Item No. 15.4 12mm cement plaster of mix: (a) 1:4 :1 cement :4 sand)	2.96	M <sup>2</sup>		
9	Extra for carriage including loading and unloading and all charges complete beyond the initial lead (for stone aggregate Killing to 132KV EPIP-II Norbong SS)=20-5=15Km (for sand from Sawlad to 132KV EPIP-II Norbong SS 25-5=20 km)				
	Carriage of stone aggregate (15Km)	23.91	Km-m <sup>2</sup>		
	Carriage of sand (20Km)	14.22	Km-m <sup>2</sup>		
10	Erection charges of 33KV CT	1	Set		

Total

Signature of the Bidder

BID SHEET FOR FOR CONSTRUCTION OF FOUNDATION AND ERECTION OF 33KV POTENTIAL  
TRANSFORMER FOR 33KV DHAR PLYWOOD FEEDER AT 132KV EPIP-II GRID SUBSTATION,  
NORBONG, BYRNIHAT

Sl. No.	Item of Work	Quantity	Unit	Rate (inclusive of 18% GST)	Amount (Rs)
1	Earthwork in excavation by manual means upto a depth of 2m below the existing ground level for foundation trenches of foundations footing of column /walls septic tank etc. including bailing out of water where necessary and removal of surplus earth with all leads and lifts as directed and specified for the following classification of soils. (a) All kinds of soil (ordinary/medium rock/dense soil)	2.67	M <sup>3</sup>		
2	Providing brick soiling in foundation and under floor with stone best quality picked jhama brick, sand and laid to the level in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering complete. (b) Stone soiling of thickness 100mm	2.43	M <sup>2</sup>		
3	Plain cement concrete works in foundation bed for footing steps, wall, brickworks etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately) (a) 1:4:8 (1 cement:4 coarse sand:8 graded stone aggregate 40mm nominal size)	0.24	M <sup>3</sup>		
4	Supplying and fixing in position reinforcement bars conforming to relevant I.S code for R.C.C. work/R.B walling including strengthening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports chairs spacers etc, complete. (Rates including of all wastage lappage hooks anchorage and no measurement for the same is required) (a) Mild Steel and medium and tensile steel bars Footing: 10mm=16.74Kg Column 12mm=44.856Kg Column 6mm=7.392Kg Total 68.988Kg or 0.689Qntl	0.689	Qntl		
5	Centering and shuttering including strutting, propping etc and removal of form for all heights complete and as directed by Engineer in charge 4.1 Foundation, footings, bases of column setc for mass concrete works etc (using steel)	7.39	M <sup>2</sup>		
6	Providing and laying in position specified grade of reinforcement concrete, excluding the cost of centering, shuttering, finishing and reinforcement, All work upto plinth level. (a) M15 or prop. 1:2:4 (1 cement : 2 coarse sand : 3 graded stone aggregate 20mm nominal size) Footing: 0.243m <sup>3</sup> Column: 1.03m <sup>3</sup> Total 1.273 m <sup>3</sup>	1.273	M <sup>3</sup>		
7	Earthwork in filling (excluding rock) in trenches, plinth, side of foundation etc in later not exceeding 20cm thick including breaking of clods, consolidating each layer by ramming and watering, lead up to 50m and lift up to 1.5m. (a) with available excavated earth.	1.2	M <sup>3</sup>		
8	Cement plaster ( in coarse sand) Item No.15.4 12mm cement plaster of mix: (a) 1:4 :1 cement :4 sand)	2.96	M <sup>2</sup>		
9	Extra for carriage including loading and unloading and all charges complete beyond the initial lead (for stone aggregate Killing to 132KV EPIP-II Norbong SS)=20-5=15Km (for sand from Sawlad to 132KV EPIP-II Norbong SS 25-5=20 km)				
	Carriage of stone aggregate (15Km)	23.91	Km-m <sup>2</sup>		
	Carriage of sand (20Km)	14.22	Km-m <sup>2</sup>		
10	Erection charges of 33KV PT	1	Set		

Total

Signature of the Bidder

BID SHEET FOR FOR CONSTRUCTION OF FOUNDATION AND ERECTION OF 33KV LIGHTNING  
ARRESTORS FOR 33KV DHAR PLYWOOD FEEDER AT 132KV EPIP-II GRID SUBSTATION, NORBONG,  
BYRNIHAT

Sl. No.	Item of Work	Quantity	Unit	Rate (inclusive of 18% GST)	Amount (Rs)
1	Earthwork in excavation by manual means upto a depth of 2m below the existing ground level for foundation trenches of foundations footing of column /walls septic tank etc. including bailing out of water where necessary and removal of surplus earth with all leads and lifts as directed and specified for the following classification of soils. (a) All kinds of soil (ordinary/medium rock/dense soil)	2.67	M <sup>3</sup>		
2	Providing brick soiling in foundation and under floor with stone best quality picked jhama brick, sand and laid to the level in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering complete. (b) Stone soiling of thickness 100mm	2.43	M <sup>2</sup>		
3	Plain cement concrete works in foundation bed for footing steps, wall, brickworks etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately) (a) 1:4:8 (1 cement:4 coarse sand:8 graded stone aggregate 40mm nominal size)	0.24	M <sup>3</sup>		
4	Supplying and fixing in position reinforcement bars conforming to relevant I.S code for R.C.C. work/R.B walling including strengthening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports chairs spacers etc, complete. (Rates including of all wastage lappage hooks anchorage and no measurement for the same is required) (a) Mild Steel and medium and tensile steel bars Footing: 10mm=16.74Kg Column 12mm=44.856Kg Column 6mm=7.392Kg Total 68.988Kg or 0.689Qntl	0.689	Qntl		
5	Centering and shuttering including strutting, propping etc and removal of form for all heights complete and as directed by Engineer in charge 4.1 Foundation, footings, bases of column setc for mass concrete works etc (using steel)	7.39	M <sup>2</sup>		
6	Providing and laying in position specified grade of reinforcement concrete, excluding the cost of centering, shuttering, finishing and reinforcement, All work upto plinth level. (a) M15 or prop. 1:2:4 (1 cement : 2 coarse sand : 3 graded stone aggregate 20mm nominal size) Footing: 0.243m <sup>3</sup> Column: 1.03m <sup>3</sup> Total 1.273 m <sup>3</sup>	1.273	M <sup>3</sup>		
7	Earthwork in filling (excluding rock) in trenches, plinth, side of foundation etc in later not exceeding 20cm thick including breaking of clods, consolidating each layer by ramming and watering, lead up to 50m and lift up to 1.5m. (a) with available excavated earth.	1.2	M <sup>3</sup>		
8	Cement plaster ( in coarse sand) Item No.15.4 12mm cement plaster of mix: (a) 1:4 :1 cement :4 sand)	2.96	M <sup>2</sup>		
9	Extra for carriage including loading and unloading and all charges complete beyond the initial lead (for stone aggregate Killing to 132KV EPIP-II Norbong SS)=20-5=15Km (for sand from Sawlad to 132KV EPIP-II Norbong SS 25-5=20 km)				
	Carriage of stone aggregate (15Km)	23.91	Km-m <sup>2</sup>		
	Carriage of sand (20Km)	14.22	Km-m <sup>2</sup>		
10	Erection charges of 33KV LA	1	Set		

Total

Signature of the Bidder

BID SHEET FOR FOR CONSTRUCTION OF FOUNDATION AND ERECTION OF 33KV ISOLATORS FOR  
33KV DHAR PLYWOOD FEEDER AT 132KV EPIP-II GRID SUBSTATION, NORBONG, BYRNIHAT

Sl. No.	Item of Work	Quantity	Unit	Rate (inclusive of 18% GST)	Amount (Rs)
1	Earthwork in excavation by manual means upto a depth of 2m below the existing ground level for foundation trenches of foundations footing of column /walls septic tank etc.including bailing out of water where necessary and removal of surplus earth with all leads and lifts as directed and specified for the following classification of soils. (a) All kinds of soil (ordinary/medium rock/dense soil)	4.752	M <sup>3</sup>		
2	Providing brick soiling in foundation and under floor with stone best quality picked jhama brick, sand and laid to the level in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering complete. (b) Stone soiling of thickness 100mm	4.32	M <sup>2</sup>		
3	Plain cement concrete works in foundation bed for footing steps ,wall, brickworks etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately) (a) 1:4:8 (1 cement:4 coarse sand:8 graded stone aggregate 40mm nominal size)	0.432	M <sup>3</sup>		
4	Supplying and fixing in position reinforcement bars conforming to relevant I.S code for R.C.C. work/R.B walling including strengthening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports chairs spacers etc,complete. (Rates including of all wastage lappage hooks anchorage and no measurement for the same is required) (b)High Yield Strength Deformed bars or Tor Bars Footing: 10mm=44.64Kg Column 12mm=179.42Kg Column 6mm=29.04Kg Total 253.10Kg or 2.531Qntl	2.531	Qntl		
5	Centering and shuttering including strutting, propping etc and removal of form for all heights complete and as directed by Engineer incharge 4.1 Foundation, footings, bases of column setc for mass concrete works etc (using steel)	24.00	M <sup>2</sup>		
6	Providing and laying in position specified grade of reinforcement concrete, excluding the cost of centering, shuttering, finishing and reinforcement, All work upto plinth level. (a) M15 or prop. 1:2:4 (1 cement : 2 coarse sand : 3 graded stone aggregate 20mm nominal size) Footing: 0.432m <sup>3</sup> Column: 3.3m <sup>3</sup> Total 3.732 m <sup>3</sup>	3.732	M <sup>3</sup>		
7	Earthwork in filling (excluding rock) in trenches, plinth, side of foundation etc in later not exceeding 20cm thick including breaking of clods, consolidating each layer by ramming and watering, lead up to 50m and lift up to 1.5m. (a) with available excavated earth.	1.056	M <sup>3</sup>		
8	Cement plaster ( in coarse sand) Item No.15.4 12mm cement plaster of mix: (a) 1:4 :1 cement :4 sand)	10.20	M <sup>2</sup>		
9	Extra for carriage including loading and unloading and all charges complete beyond the initial lead (for stone aggregate Killing to 132KV EPIP-II Norbong SS)=20-5=15Km (for sand from Sawlad to 132KV EPIP-II Norbong SS 25-5=20 km)				
	Carriage of stone aggregate (15Km)	61.95	Km-m <sup>2</sup>		
	Carriage of sand (20Km)	39.48	Km-m <sup>2</sup>		
10	Erection charges of 33KV Isolator	2	Set		

Total

Signature of the Bidder

BID SHEET FOR FOR CONSTRUCTION OF FOUNDATION AND ERECTION OF 33KV POST  
INSULATORS FOR 33KV DHAR PLYWOOD FEEDER AT 132KV EPIP-II GRID SUBSTATION,  
NORBONG, BYRNIHAT

Sl. No.	Item of Work	Quantity	Unit	Rate (inclusive of 18% GST)	Amount (Rs)
1	Earthwork in excavation by manual means upto a depth of 2m below the existing ground level for foundation trenches of foundations footing of column /walls septic tank etc. including bailing out of water where necessary and removal of surplus earth with all leads and lifts as directed and specified for the following classification of soils. (a) All kinds of soil (ordinary/medium rock/dense soil)	0.72	M <sup>3</sup>		
2	Providing brick soiling in foundation and under floor with stone best quality picked jhama brick, sand and laid to the level in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering complete. (b) Stone soiling of thickness 100mm	0.96	M <sup>2</sup>		
3	Plain cement concrete works in foundation bed for footing steps, wall, brickworks etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately) (a) 1:4:8 (1 cement:4 coarse sand:8 graded stone aggregate 40mm nominal size)	0.096	M <sup>3</sup>		
4	Supplying and fixing in position reinforcement bars conforming to relevant I.S code for R.C.C. work/R.B walling including strengthening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports chairs spacers etc. complete. (Rates including of all wastage lapping hooks anchorage and no measurement for the same is required) (b) High Yield Strength Deformed bars or Tor Bars Column 10mm=8.33Kg Stirrup 6mm=0.792Kg Total 9.122Kg or .09122Qntl	0.09122	Qntl		
5	Centering and shuttering including strutting, propping etc and removal of form for all heights complete and as directed by Engineer in charge 4.1 Foundation, footings, bases of columns etc for mass concrete works etc (using steel)	4.03	M <sup>2</sup>		
6	Providing and laying in position specified grade of reinforcement concrete, excluding the cost of centering, shuttering, finishing and reinforcement, All work upto plinth level. (a) M15 or prop. 1:2:4 (1 cement : 2 coarse sand : 3 graded stone aggregate 20mm nominal size)	0.3024	M <sup>3</sup>		
7	Earthwork in filling (excluding rock) in trenches, plinth, side of foundation etc in layers not exceeding 20cm thick including breaking of clods, consolidating each layer by ramming and watering, lead up to 50m and lift up to 1.5m. (a) with available excavated earth.	0.21	M <sup>3</sup>		
8	Cement plaster (in coarse sand) Item No. 15.4 12mm cement plaster of mix: (a) 1:4 :1 cement :4 sand)	4.14	M <sup>2</sup>		
9	Extra for carriage including loading and unloading and all charges complete beyond the initial lead (for stone aggregate Killing to 132KV EPIP-II Norbong SS)=20-5=15Km (for sand from Sawlad to 132KV EPIP-II Norbong SS 25-5=20 km)				
	Carriage of stone aggregate (15Km)	11.25	Km-m <sup>2</sup>		
	Carriage of sand (20Km)	6.00	Km-m <sup>2</sup>		
10	Erection charges of 33KV PI	6	No		

Total

Signature of the Bidder

BID SHEET FOR ERECTION AND INSTALLATION OF 1 NO 33KV FEEDER PANEL FOR DHAR PLYWOOD.

SI.No.	Items	Unit	Qty	Rate (inclusive of GST 18%)	Amount (Rs)
1	Erection charges for 33KV feeder Dhar Plywood panel simplex	No.	1		

Total

Signature of the Bidder

BID SHEET FOR CONSTRUCTION OF CABLE TRENCH FOR 33KV BAY FOR DHAR PLYWOOD FEEDER AT 132/33KV EPIP II GRID SUBSTATION, NORBONG.					
Sl. No.	Description	Quantity	Unit	Unit rate inclusive of 18% GST (Rs)	Total Amount (Rs)
1	2	3	4	5	6
<b>CONSTRUCTION OF 45 RM OF CABLE TRENCH IN SWITCHYARD FOR 33KV DHAR PLYWOOD FEEDER</b>					
1	Earthwork in excavation by manual means upto a depth of 2m below the existing ground level for foundation trenches of foundations footing of column /walls septic tank etc. including bailing out of water where necessary and removal of surplus earth with all leads and lifts as directed and specified for the following classification of soils. (a) All kinds of soil (ordinary/medium rock/dense soil)	67.5	Cum		
2	Providing soling with stone best quality picked jhama brick, sand packed and laid to the level in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering complete. (b) Stone soling of thickness 100mm	6.75	Cum		
3	Plain cement concrete works in foundation bed for footing steps, wall, brickworks etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately) In proportion 1:3:6 (1 cement:3 coarse sand: 6 coarse aggregate)	6.75	Cum		
4	Centering and shuttering including strutting, propping etc and removal of form for all heights complete and as directed by Engineer in charge 4.2 Wall (any thickness) including attached pilasters, butresses Side wall	81	Sqm		
5	Earthwork in filling (excluding rock) in trenches, plinth, side of foundation etc in layers not exceeding 20cm thick including breaking of clods, consolidating each layer by ramming and watering, lead up to 50m and lift up to 1.5m. (a) with available excavated earth.	27	cum		
6	Brick work with common burnt clay modular 1st class bricks in foundation and in plinth: (a) Cement mortar 1:4 (1 cement: 4 coarse sand) 23 mm brick works	20.25	Cum		
7	Cement plaster (in coarse sand): 12mm cement plaster of mix: (a) 1:4 (1 cement :4 sand)	126	sqm		
8	Structural steel work in single section, fixed with or without connecting plate, including cutting, histing, fixing in position and applying a priming coat of approved steel primer all complete In MS angles, channels, tees etc in mm 75x75x6	150.28	kg		
<b>Sub Total(A)</b>					
<b>CONSTRUCTION OF CABLE TRENCH SLABS FOR 33KV DHAR PLYWOOD FEEDER</b>					
9	Centering and shuttering including strutting, propping etc and removal of form for all heights complete and as directed by Engineer in charge 4.3 Slab, roof, landings balconies and access platform, shelves Wall (any thickness) including attached pilasters, butresses	25.6	Sqm		
10	Supplying and fixing in position reinforcement bars conforming to relevant I.S code for R.C.C. work/R.B walling including strengthening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports chairs spacers etc. complete. (Rates including of all wastage lappage hooks anchorage and no measurement for the same is required) (a) Mild steel and Medium Tensile steel bar 10mm	5.747	qntl		
11	Providing and laying in position specified grade of reinforcement concrete, excluding the cost of centering, shuttering, finishing and reinforcement, All work upto plinth level. (a) M15 or prop. 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	4.5	cum		
12	Cement plaster (in coarse sand) Item No.15.4 12mm cement plaster of mix: (a) 1:4 (1 cement :4 sand)	45	cum		
13	<b>Sub Total(B)</b>				
<b>Total(A+B)</b>					

Signature of the Bidder

**BID SHEET FOR LAYING OF EARTHMAT FOR 33KV DHAR PLYWOOD BAY AT EPIP-II NORBONG SS**

<b>Sl.No</b>	<b>Name of Material</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate (inclusive of GST)</b>	<b>Amount (Rs)</b>
1	Supply of M.S Rod 32mm for the Mat=147 Rm @6.31 kg/Rm=1268.9kg (including vertical drilling 9 nos.)	Kg	927.57		
2	Supply of 3 meter M.S Rod 32mm dia (18 nos)(Including CT, PT and L.A's,etc =18x3=54 Rm @6.313kg/m =340.9 kg (for local untreated pit)	Kg	340.9		
3	Supply of galvanised M.S flat for main conductor & riser,75x12mm(For 33KV terminal equipments including linking with the existing mat)=170 RmX 4.71Kg/m=800.7 kg	Kg	800.7		
<b>CIVIL WORKS</b>					
4	Earth work in Excavation upto a depth of 2m below the existing ground level for.....				
	(0.3*0.6*147)=264.6m <sup>3</sup>	m <sup>3</sup>	264.6		
5	Laying of Earthmat including excavation,welding works,burying of electrodes,backfilling etc. (12x12) sqm	Sq.m	144		
	<b>Total</b>				

Signature of the Bidder

<b>ESTIMATE FOR CONSTRUCTION OF PCC AND LAYING OF GRAVELLING FOR 33KV BAY FOR DHAR PLYWOOD AT 132/33KV NORBONG(EPIP II) GRID SUBSTATION</b>						
Area of switchyard=		12*12	144	PT,PI,Isolators,etc=144- {(5*0.9*0.8+6*0.5*0.5+6*0.5*0	129.26	Sq.m
Sl.No	Description	Qty	Unit	Rate in Rs. (inclusive of 18% GST)	Amount (Rs).	
1	Earthwork in excavation by manual means upto a depth of 2m below the existing ground level for foundation trenches of foundations footing of column /walls septictank etc.includu=ing bailing out of waterf where necessary and removal of surplus earth with all leads and lifts as directed and specified for the following classification of (a) All kinds of soil (ordinary/medium rock/dense soil)	12.93	m <sup>3</sup>			
2	Providing soling with stone/ best quality picked jhama brick,sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering complete (b) Stone soling of thickness (i)100 mm	12.93	m <sup>2</sup>			
3	Plain cement concrete works in foundation bed for footing steps ,wall, brickworks etc below plinth level as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured (c) 1 :2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) 129.26*0.1	12.93	m <sup>3</sup>			
4	Supply of Gravel/ stone aggregate two layers of 50mm (Total 100mm thick) with 10mm ungraded nominal size stone agreegate/pebles in switchyard area as per technical specification. (Rate as per SOR of MPWD (B) 2021-22 Sub head 33 page 215, Sl.No.11; Exluding labor cost for spreading) 129.6*0.10	12.93	m <sup>3</sup>			
5	Labour for Spreading of hard broken stone uniformly to propeer grade and camber including filling the interstis with stone chiping, applying of blendage and earth edging etc. 22.4mm to 53mm size.	12.93	m <sup>3</sup>			
6	Extra lead per km truck carriage for sand, gravel, Mawthup beyond the initial lead of 5KM. Stone and Agreegate From Umeit Umroi to Norbong SS, 20KM=20-5=15 Sand From Umeit Umroi to Norbong SS, 20KM=20-5=15 KM extra lead(15x5.7=85.5Km-m <sup>3</sup> )	364.65	km-m <sup>3</sup>			
	<b>TOTAL</b>					

Signature of the Bidder

**BID SHEET FOR LAYING OF CABLES FOR 33KV TERMINAL EQUIPMENTS FOR 33KV DHAR PLYWOOD FEEDER  
AT 1342KV EPIP-II GRID SUBSTSTION, NORBONG BYRNIHAT**

SL No	Items (Type)	Unit	Total Length (Rm)	Rate/Mtr inclusive of 18% GST (Rs)	Amount (Rs)
<b>33KV LAYING OF CONTROL CABLES</b>					
1	19 Core Cable for control supply from circuit breaker upto C&R Panel)	Rm	300		
2	14 Core Cable for control supply from marshilling box upto C&R Panel)	Rm	300		
3	7 Core Cable for control supply for current transformer (upto C&R Panel)	Rm	1500		
4	4 Core Cable for control ac supply from circiut breaker upto C&R Panel)	Rm	900		
	<b>Total</b>				

Signature of the Bidder.

BID SHEET FOR STRINGING OF ACSR PANTHER CONDUCTOR FOR 33KV DHAR PLYWOOD BAY AT  
132KV EPIP-II GRID SUBSTATION, NORBONG BYRNIHAT.

Sl.No.	Items	Quantity	Unit	Rate (inclusive of 18% GST)	Amount (Rs)
1	33KV Bus	0.15	Km		
2	Dhar Plywood feeder 33KV bay	0.075	Km		
3	Jumper for terminal equipments	0.115	Km		
	Total	0.34	Km		

Signature of the Bidder

**ABSTRACT****BID SHEET FOR CONSTRUCTION OF FOUNDATION AND ERECTION 33KV TERMINAL EQUIPMENTS FOR 33KV DHAR PLYWOOD BAY AT 132/33KV EPIP II GRID SUBSTATION, NORBONG BYRNIHAT**

Sl. No.	Descriptions	Units	Qntty	Rate inclusive of 18% GST	Total (Rs)
1	2	3	4	5	6
1	33KV column, C1 type	MT	2.15		
2	33KV beam, B4	MT	1.52		
3	33KV circuit breaker SF6	Set	1		
4	33KV CT	No	3		
5	33KV PT	No	3		
6	33KV isolators without earth blade	Set	1		
7	33KV isolators with earth blade	Set	1		
8	33KV Post Insulator	No.	6		
9	33KV Lightning Arrestor	No	3		
10	C&R panel for 33KV feeder	No.	1		
11	Conductor Stringing/jumper	Km	0.34		
12	Cable trench				
13	Earth mat				
14	PCC gravelling				
15	Cable laying				

Total

Signature of the Bidder