

ANNEXURE-I													
BILL OF QUANTITY													
DESIGN, SUPPLY, CIVIL WORK AND ETC OF 220KV TRANSMISSION LINE & TOWERS (DOUBLE CIRCUIT)- SUPPLY PART													
Project	North Karanpura Super Thermal Power Project (3x660MW)												
Customer	NTPC Ltd.												

S. No.	Item / Work description	Unit	Quantity	Ex-works Price (Rs)	Total Ex-works (Rs.)	Excise Duty (if any) (in %)	Total Excise Duty (Rs.)	Unit Freight & Insurance (Rs)	Total F & I (Rs)	CST/VAT		Amount of CST/VAT (Rs)	Total FOR Destination Price (Rs)
										(Type of tax whether CST or VAT)	(Rate in %)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Supply of 220kV Transmission Line tower structure - (From approved sources only)												
1.1	Fabrication and supply of Galvanised Steel Structures of MS for 220kV lattice type transmission line towers including preparation of shop drawing based on structure drawings issued by BHEL, proto assembly, submission of proto-corrected drawings & BOMs for approval, mass fabrication, galvanisation, inspection and supply complet as per technical specification.												
1.1.1	Mild steel (Galvanized) (Weight of galvanisation shall be 610 gms/sqm)	MT	600										
1.1.2	GI structure Hardwares (Nuts, bolts, pack and spring washers, step bolts etc.)	MT	20										
1.1.3	Supply of MS stub setting templates made of channels,angles etc with one coat of primer	MT	7										
2	Supply of stringing materials, tower & stringing accessories & earthing materials (mandatory) (From approved sources only)												
2.1	Supply of Transmission Line tower accessories (phase plate, caution plate, number plate, circuit plate, anti-climbing device, bird guard, aviation signal etc) as per NTPC/BHEL specification.	Set *	34										
2.2	Supply of stringing material accessories for 220kV Double circuit Transmission line including the following :												
2.2.1	Conductor accessories: Vibration dampers, Clamps, Mid span compression joint, Repair sleeves, rigid & flexible spacers etc to complete	km	9.5										
2.2.2	Supply of complete earthing materials for all towers as per approved drawings												
2.3	3 m long , 40 NB pipe electrode	Nos.	34										
2.3.1	Counterpoise type (120 m long)	Nos.	10										
2.3.2	Supply of ACSR Zebra conductor as per NTPC/BHEL specification.	km	84										
	Total Amount (Rs.)												

Notes:-	
1	BIDDERS ARE REQUIRED TO SUBMIT UNPRICED COPY OF PRICE BID ALONG WITH TECHNO-COMMERCIAL BID INDICATING % OF ED AND CST/VAT IN COLUMN NO. 7 AND 12 RESPECTIVELY. FURTHER TYPE OF TAX I.E. CST/ VAT* AS APPLICABLE IS TO BE INDICATED IN COLUMN NO. 11.
2	THE PRICES MUST BE QUOTED IN THE PRESCRIBED UNIT ONLY.
3	* – One (1) Set means items for one (1) no. complete tension/ suspension tower.
4	The quantities mentioned in the BOQ are tentative and may undergo a change to any extent for individual items.
5	Any material/services required for successful completion of the project but not covered in the BOQ shall be deemed to be included in the scope of contractor without any cost implications to BHEL. The bidder is advised to visit site before submission of bid.
6	The route / check survey and geo-technical investigation and soil resistivity measurement shall be done by separate agency appointed by BHEL. Bidder shall associate himself with the agency during the route/check survey.
7	Loading / Unloading, handling, shifting to & from stores, proper storage, assembly, installation are included in the scope.
8	MS welding at site- apply red lead paint then aluminium paint then bitumen after welding.

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9	GI welding at site - apply 2 coats of cold galvanising anti corrosive paint after welding.												
10	Bidder may note that any damage of material at site during erection work shall be avoided. Further, owner (NTPC/BHEL) shall not pay any compensation for any loss or damage to the material/properties during work of execution of transmission line job or for tree cutting due to bidder's work.												
11	Right of way is not in Bidder scope, but tree cutting (if any) is in the scope of bidder. Please refer special conditions of contract and customer technical specification.												
12	For scope of supply items in contractor scope following should be followed . (1)The approval of makes shall be obtained from BHEL/Customer . (2)Drawings and MQP shall be submitted for approval in line with specification and relevant IS. (3) Quality -Inspection & dispatch clearance shall be given by BHEL/Customer.												