

ETC OF 220kV DC Transmission Line, Interconnecting cabling system of 400kV & 220kV Switchyards & associated works at Rayalseema Thermal Power Plant Stage-IV, Unit-6 (1x600MW)													
Project: 400/220 KV SWITCHYARD- 1X600 MW RTPP UNIT#6 (STAGE-IV)													
Customer: APGENCO													
PART - A (SUPPLY ITEMS)													
S. No.	Item / Work description	Unit	Quantity	Ex-works Price (Rs)	Total Ex-works (Rs.)	Excise Duty (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 tower/ line accessories of 220 kV lines												
1.1	Tower accessories (for 220 kV lines)												
	i) Danger Plate	Nos.	4										
	ii) Number Plate	Nos.	4										
	iii) Phase Plate (Set of three)	Sets	8										
	iv) Circuit Plate (Set of two)	Sets	4										
	v) Anti-Climbing Device	Nos.	4										
	vi) Bird - Guard (Set of six)	Sets	4										
1.2	Conductor & Earthwire accessories (for 220 kV lines)												
	i) Mid span compression joint for ACSR Moose conductor	Nos.	20										
	ii) Repair Sleeve for ACSR Moose Conductor	Nos.	5										
	iii) Vibration dampers for ACSR conductor	Nos.	90										
	iv) Flexible Spacers (250mm) for ACSR Moose Conductor	Nos.	53										
	v) Rigid Spacer for 250mm ACSR Moose Conductor	Nos.	40										
	vi) Mid span compression joint for GS earthwire	Nos.	5										
	vii) Repair Sleeve for 7/3.66mm GS Earthwire	Nos.	5										
	viii) Vibration Damper for 7/3.66mm GS Earthwire	Nos.	26										

PART - A (SUPPLY ITEMS)													
S. No.	Item / Work description	Unit	Quantity	Ex-works Price (Rs)	Total Ex-works (Rs.)	Excise Duty (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
	ix) Earthwire Tension Clamp with Cu. Bond	Nos.	26										
1.3	Earthing material of towers (for 220 kV lines)												
	i) 3 m , 40 NB pipe electrode	Nos.	8										
	ii) Counterpoise type (120 m long)	Nos.	2										
1.4	Shield Wire (for 220 kV lines) * <i>(Balance quantity of shield wire is already available at site)</i>												
	i) Shield Wires(7/3.66)	kM	0.7										
1.5	Stringing Hardware accessories (for 220 kV lines) #												
	i) Interfacing hardware arrangement for converting 220kV double anchoring tension insulator stringing hardware (2x15nos. Discs) suitable for tower having hole for single anchoring	Sets	48										
	ii) Drop clamp for 220kV suspension type strining hardware (1x15nos. Discs) suitable for single moose conductor	Nos.	3										
	TOTAL AMOUNT (RS.)												
Notes :													
1	MS welding - apply red lead paint then aluminium paint then bitumen after welding.												
2	GI welding - apply 2 coats of cold galvanising anti corrosive paint after welding.												
3	All associated items, though specifically not mentioned but required for safe and satisfactory execution and commissioning of transmission line will also be treated as included and same shall be supplied, ETC to be done at no extra cost to BHEL/ APGENCO.												
4	* - Shield wire shall be supplied by BHEL. Only in case of shortage at site, it shall be supplied by bidder. Shifting of shield wire from BHEL stores to tower & erection of same is in bidder's scope.												
5	Supply of MS Rod, GI flat, cable trays, racks, Lattice structure for Towers & beams and transmission line stringing hardware & disc insulators is in BHEL scope. However, shifting of material from BHEL stores to erection locations & erection of same are in bidder's scope.												
6	Refer drawing no. TB-0-344-316-422 Rev-04 for location of all transmission line towers, gantry locations & route of interconnecting trench between 400kV & 220kV Switchyards. Route of interconnecting trench & trestle arrangement may change slightly to suit site conditions.												
7	'#' - Drawings of tension hardware (with double anchoring) and Tower top cross arm & GW X-arm drawing are enclosed for identifying matching hardware. Bidder has to identify all the componets required for matching holes on tower with stringing hardware.												
8	Make of items to be supplied/used under this contract shall be subject to acceptance by customer/BHEL at contract stage.												