

**SHIFTING OF 400kV D/C RTCL LINE FROM EXISTING LOCATION 9/10 to 11/0**

Sl. No.	Item Description	Unit	Total Qty.	Unit Price	Total Price excluding Taxes
<b>A</b>	<b>Dismantling and Destrining Quantity</b>				
1	Dismantling of existing tower material along with its hardware accessories complete in all respect.	MT	51.399		-
2	Transporation of dismantled tower material along with Hardware and Accessories to the nearest store (approximate 10Km away from tower location) of RTCL including loading and unloading	MT	51.399		-
3	Dismantling of existing tower foundation along with Stub upto 1.5 Mtr depth below ground level and removal of debris to appropriate loaction along with proper backfilling with soil as per the instructions of RTCL Incharge	Loc	4		-
4	Destrining Existing OPGW and it's accessories and trasportation to nearest store (approximate 10Km away from tower location) of RTCL	Km	4.2		-
5	Destrining Existing earthwire and it's accessories and trasportation (approximate 10Km away from tower location) of RTCL	Km	4.2		-
6	Destrining Existing Twin ACSR Moose Condcutor of 3 phases and it's hardware fittings, Insulators and trasportation to nearest store (approximate 10Km away from tower location) of RTCL	CKm	8.4		-
<b>B</b>	<b>Material Supply Quantity</b>				
1.0	<b>Fabrication, galvanising and supply of various type of tower parts, tower extensions (complete) including bolts &amp; nuts, step bolts and stubs and spring washers, pack washers etc.</b>				
(i)	Tower weight with body extensions MS	MT	70.1		-
(ii)	Tower weight with body extensions HT	MT	77.3		-
(iii)	Stubs	MT	4.2		-
(iv)	Bolts and Nuts	MT	4.7		-
<b>2</b>	<b>EARTHING OF TOWERS</b>				
(i)	Pipe Type Earthing	Nos.	1		-
(ii)	Counterpoise type (120 m length for each location)	Nos.	5		-
<b>3</b>	<b>TOWER ACCESSORIES</b>				
(i)	Danger Plate	Nos.	6		-
(ii)	Number Plate	Nos.	6		-
(iii)	Phase Plate (Set of three)	Sets	12		-
(iv)	Circuit Plate (set of two)	Sets	12		-
(v)	Anti-Climbing Device	Sets	6		-
(vi)	Babred wire (As per approved drawing)	Set	6		-
(vii)	Bird Guard	Set	6		-
<b>4.0</b>	<b>Manufacture and Supply of following Line Materials</b>				
<b>4.1</b>	<b>Conductor</b>				
(i)	ACSR MOOSE Conductor	Km	22.68		-
<b>4.2</b>	<b>Earthwire</b>				
(i)	7/3.66mm GS Earthwire	km	1.89		-
(ii)	OPGW - 24 Fibers (DWSM)	km	4.788		-
<b>4.3</b>	<b>Composite Silicone long rod insulators</b>				
(i)	120 kN Antifog Type	Nos	18		-
(ii)	160 kN Antifog Type	Nos	120		-
<b>4.4</b>	<b>Hardware Fittings for ACSR Twin MOOSE Conductor</b>				
(i)	Single Suspension "I" Insulator String - AGS Type with corona ring	Set	6		-
(ii)	Pilot String	Set	12		-
(iii)	Double Tension String hardware	Set	60		-
<b>4.5</b>	<b>Conductor Accessories for ACSR MOOSE</b>				
(i)	Mid span comp. joint for conductor	Nos	24		-
(ii)	Repair sleeve for conductor	Nos	24		-
(iii)	Spacers -Dampers suitable for Twin Moose	Nos	594		-
(iv)	Rigid Spacers for jumpers suitable for Twin Moose	Nos	100		-
<b>4.6</b>	<b>Earthwire Accessories for 7/3.66mm Earthwire</b>				
(i)	Mid Span Compression Joint	Nos	2		-
(ii)	Flexible Cu Earth Bond	Nos	20		-
(iii)	4R Vibration damper	Nos	38		-
(iv)	Suspension clamp	Nos	7		-
(v)	Tension clamp	Nos	12		-
(vi)	Repair Sleeve	Nos	2		-

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<b>4.7</b>	<b>OPGW 24 Fibres (DWSM) Accessories</b>				
(i)	Optical Joint Box (Junction) Box	SET	1		-
(ii)	Single Suspension Clamp with Earth Bond	SET	6		-
(iii)	Double Tension Clamp (Pass Through) with Earth Bond	SET	5		-
(iv)	Single Tension assembly (with Earth Bond)	SET	2		-
(v)	Vibration damper for OPGW along with Armor rods**	NO.	38		-
(vi)	Down Lead Clamp for OPGW on Tower	NO.	30		-
<b>5.0</b>	<b>Aviation Requirements (If required)</b>				
(i)	Span Markers	Nos	0		-
(ii)	Obstruction Lights (to be provided as per IS 5613)	Nos	0		-
(a)	1 Medium Intensity + 2 Low Intensity	Sets	0		-
(b)	1 Medium Intensity + 4 Low Intensity	Sets	0		-
<b>C</b>	<b>Erection Quantity</b>				
1	Check survey	Km	2		-
2	Soil investigation in All kind of soil including fissured rock & hard rock up to 10 mtr Depth	No	2		-
3	Work Associated with Tower Foundations				
3.1	Excavation in various types of soils				
3.1.1	WET	Cum	427		-
3.1.2	DFR	Cum	859		-
3.2	<b>Concreting (including all associated works related to foundation)</b>				
3.2.1	M20 Nominal Concrete Mix 1:1.5:3	Cum	206		-
3.2.2	M10 Nominal Concrete Mix 1:3:6	Cum	22		-
3.3	<b>Supply and placement of reinforcement steel</b>	MT	14.2		-
3.4	<b>Installation of Stub including bolts and nuts</b>	MT	4.2		-
4	<b>Erection of various type of tower parts and tower extension (complete) with bolts and nuts, including tack welding and supply and application of zinc rich primer and two coats of enamel paint</b>	MT	152.1		-
5	<b>Installation of earthing of towers</b>				
5.1	Pipe Type Earthing	Nos.	1		-
5.2	Counterpoise Type Earthing (120m length)	Nos.	5		-
6	<b>Installation of the following tower accessories</b>				
6.1	Danger Plate	Nos.	6		-
6.2	Number Plate	Nos.	6		-
6.3	Phase Plate (Set of three)	Sets	12		-
6.4	Circuit Plate (Set of Two)	Sets	12		-
6.5	Anti-Climbing Device along with barbed wiew	Nos.	6		-
6.6	Bird Guard	Nos.	6		-
7	Installation of insulator strings with hardware fittings, stringing of conductor including fixing of conductor accessories for Twin ACSR Moose	Ckt Km	8.64		-
8	Installing & stringing of earthwire including fixing of earthwire accessories	Km	4.32		-
9	Installing & stringing of OPGW including fixing of OPGW accessories	Km	4.32		-
10	<b>Installation of Aviation Requirements (If required)</b>				
10.1	Span Markers	Nos	0		-
10.2	Obstruction Lights (to be provided as per IS 5613)	Nos	0		-
10.3	(i) 1 Medium Intensity + 2 Low Intensity	Sets	0		-
10.4	(ii) 1 Medium Intensity + 4 Low Intensity	Sets	0		-
11	Complete set up of tempopary store at site for 3 Months	Lot	1		-
<b>D</b>	<b>Total</b>				
1	Total				-