

<b><u>Abstract - Supply - Schedule-A</u></b>		
<b>SUPPLY OF MATERIAL/EQUIPMENT FOR ERECTION OF 400/11KV SUB-STATION AT NAMAPUR(PEGADAPALLY )AND CONNECTED LINE FROM 400 KV VELGATOOR SS AND 400 KV KACHAPUR SW.S IN LINK-II FOR LIFTING ADDITIONAL 1TMC WATER FROM GODAVARI BASIN UNDER KALESWARAM LIFT IRRIGATION SCHEME IN KARIMNAGAR (OLD) DISTRICT</b>		
<b>Sl.No.</b>	<b>DESCRIPTION</b>	<b>Amount in Rs.</b>
1	SCHEDULE - A1: 400 KV TMDC LINE FROM NAMAPUR( PEGADAPALLY) SWITCH YARD GANTRY TO TRANSFORMER DECK ( 2 KM)	4,19,72,689.53
2	SCHEDULE - A2: SUPPLY OF 400 KV QMDC LINE FROM KACHAPUR TO PEGADAPALLY (19.3KM)	36,18,58,123.01
3	SCHEDULE - A3: SUPPLY OF400 KV QMDC LINE FROM VELGATOOR SS TO PEGADAPALLY (22.5KM)	40,51,22,974.27
	<b>SCHEDULE A-TOTAL IN RS.</b>	<b>80,89,53,786.81</b>

**NOTES:**

- 1 GST extra at actuals.
- 2 F&I inclusive in the above prices  
All applicable taxes & duties including BOCW (if applicable), NAC are
- 3 deemed to be included in above prices except GST as mentioned in Sl. No. 1.

Supply of 400 KV TMDC line ( Pressure Main Towers) from 400/11KV LIS Namapur( Pegadapally)witch yard Gantry to Transformer Deck ( 2 Km) for additional 1 TMC works under Kaleshwaram Lift Irrigation Scheme(Link -II)					
SCHEDULE - A1					
SUPPLY PRICES					
Sl.No.	Description of material	QTY	UOM	Unit rate (in Rs.)	Total Amount (in Rs.)
1	Stubs & Cleats for all Towers (including 2.5% Extra of Bolts & Nuts )	22.00	MT	65,762.48	14,46,774.49
2	Super Structure for all Towers (Including Bolts & Nuts)	371.37	MT	65,762.48	2,44,22,184.19
3	ACSR Moose Conductor	24.00	KM	2,59,848.40	62,36,361.60
4	<b>Hard Ware Fittings, Hardware &amp; Accessories Complete for Quadruple ACSR Moose Conductor</b>				
a)	Double Tension Hardware Complete for twin moose ACSR	141.00	Sets	8,772.46	12,36,916.72
c)	Single Pilot Insulator Hardware Complete	67.00	Sets	25,694.17	17,21,509.66
d)	Midspan compression Joints	13.00	Nos.	736.36	9,572.73
e)	Bundle spacers dampers Twin Moose ACSR Conductor	441.00	Nos.	1,191.32	5,25,371.02
f)	Repair Sleeves for ACSR Conductor	8.00	Nos.	277.93	2,223.46
5	7/3.66mm Galvanised Earthwire	4.00	KM	41,044.25	1,64,176.99
6	<b>Hard Ware Fittings &amp; Accessories for 7/3.66mm GS Earthwire</b>				
a)	Tension Hardware Complete	45.00	Sets	492.71	22,172.00
c)	Vibration Dampers	49.00	Nos.	304.92	14,941.10
d)	Flexible Copper Bonds with suitable bolts & nuts	24.00	Nos.	589.76	14,154.34
e)	Midspan compression Joints	3.00	Nos.	194.57	583.70
f)	Repair sleeves	3.00	Nos.	228.47	685.41
7.a	120KN Disc Insulators (Antifog type)/ insulators of equivalent quantity(23 per stack)	1548.00	Nos.	652.79	10,10,521.24
7.b	120KN Disc Long Rod insulators of equivalent quantity(23 per stack)	0.00	Nos.	14,303.66	0.00
8.a	160KN Disc Insulators (Antifog type)/ insulators of equivalent quantity(24 per stack)	7039.00	Nos.	716.92	50,46,368.20
8.b	160KN Long Rod insulators of equivalent quantity(24 per stack)	0.00	Nos.	16,125.73	0.00
9	Number Plates with Bolts, Nuts & Washers	11.00	Nos.	175.63	1,931.90
10	Danger Plates with Bolts, Nuts & Washers	11.00	Nos.	175.63	1,931.90
11	Phase Plates with Bolts, Nuts & Washers (Set of Three R,Y & B)	22.00	Sets	175.63	3,863.79
12	Circuit Plates with Bolts, Nuts & Washers (Set of Two)	11.00	Sets	175.63	1,931.90
13	Bird Guards ( 1 Set = 6 Nos)	0.00	Sets	1,641.82	0.00
14	<b>Anti Climbing Devices</b>				
a)	Large Angle and Dead End Towers incl. contingencies	11.00	Nos.	5,719.98	62,919.80
15	<b>Earthing of the Towers</b>				
a)	Pipe type	11.00	Sets	1,113.26	12,245.88
b)	Counter Poise	5.00	Sets	2,669.50	13,347.51
<b>Total Amount in Rs. (Electrical)- Schedule-A1</b>					<b>4,19,72,689.53</b>

**SUPPLY OF 400 KV QMDC LINE FROM 400 KV KACHAPUR SWITCHING STATION TO 400/11KV LIS NAMAPUR SUBSTATION (19.3 KM) IN LINK-II FOR LIFTING ADDITIONAL 1TMC WATER FROM GODAVARI BASIN UNDER KALESWARAM LIFT IRRIGATION SCHEME IN KARIMNAGAR (OLD) DISTRICT**

**SCHEDULE - A2**

**SUPPLY PRICES**

Sl.No.	Description of material	QTY	UOM	Unit rate (in Rs.)	Total Amount (in Rs.)
1	Stubs & Cleats for all Towers (including 2.5% Extra of Bolts & Nuts )	88	MT	65,762.48	57,87,097.98
2	Super Structure for all Towers (Including Bolts & Nuts)	2515	MT	65,762.48	16,53,92,629.66
3	ACSR Moose Conductor	468	KM	2,59,848.40	12,16,09,051.20
4	<b>Hard Ware Fittings, Hardware &amp; Accessories Complete for Quadruple ACSR Moose Conductor</b>				
a)	Double Suspension Insulator Hardware Complete	190	Sets	14,930.01	28,36,702.28
b)	Quadruple /Double Tension Hardware Complete	435	Sets	33,641.09	1,46,33,873.06
c)	Single Pilot Insulator Hardware Complete	129	Sets	25,694.17	33,14,548.45
d)	Midspan compression Joints	265	Nos.	736.36	1,95,136.33
e)	Quad Rigid spacers for ACSR Moose Conductor for Jumpers	643	Nos.	1,202.67	7,73,319.06
f)	Bundle spacers dampers Quad Moose ACSR Conductor	2460	Nos.	1,191.32	29,30,641.05
g)	Twin Moose Rigid Spacer (250mm spacing) for ACSR Moose	416	Nos.	241.01	1,00,259.74
h)	Repair Sleeves for ACSR Conductor	78	Nos.	277.93	21,678.77
5	7/3.66mm Galvanised Earthwire	19.3	KM	41,044.25	7,92,153.98
6	<b>Hard Ware Fittings &amp; Accessories for 7/3.66mm GS Earthwire</b>				
a)	Suspension Hardware Complete	32	Nos.	498.55	15,953.62
b)	Tension Hardware Complete	73	Sets	492.71	35,967.90
c)	Vibration Dampers	210	Nos.	304.92	64,033.31
d)	Flexible Copper Bonds with suitable bolts & nuts	105	Nos.	589.76	61,925.22
e)	Midspan compression Joints	10	Nos.	194.57	1,945.65
f)	Repair sleeves	10	Nos.	228.47	2,284.72
7a)	120KN Disc Insulators (Antifog type	11683	Nos.	652.79	76,26,563.09
b)	120KN Long Rod Insulators (one Set = 23 Nos. Disc insulators)	0	Sets	14,303.66	0.00

Sl.No.	Description of material	QTY	UOM	Unit rate (in Rs.)	Total Amount (in Rs.)
8 a)	160KN Disc Insulators (Antifog type)	42278	Nos.	716.92	3,03,09,753.51
b)	160KN Long Rod Insulators (one Set = 24 Nos. Disc insulators)	0	Sets	16,125.73	0.00
9	Number Plates with Bolts, Nuts & Washers	66	Nos.	175.63	11,591.38
10	Danger Plates with Bolts, Nuts & Washers	66	Nos.	175.63	11,591.38
11	Phase Plates with Bolts, Nuts & Washers (Set of Three R,Y & B)	132	Sets	175.63	23,182.76
12	Circuit Plates with Bolts, Nuts & Washers (Set of Two)	66	Sets	175.63	11,591.38
13	Bird Guards ( 1 Set = 6 Nos)	31	Sets	1,641.82	50,896.34
14	<b>Anti Climbing Devices for</b>				
a)	Tangent Towers incl. contingencies	31	Sets	3,432.11	1,06,395.50
b)	Small Angle Towers incl. contingencies	6	Sets	4,576.40	27,458.40
c)	Medium Angle Towers incl. contingencies	8	Sets	5,719.98	45,759.85
d)	Large Angle and Dead End Towers incl. contingencies	21	Sets	5,719.98	1,20,119.61
15	<b>Earthing of the Towers</b>			0.00	0.00
a)	Pipe type	66	Sets	1,113.26	73,475.29
b)	Counter Poise	10	Sets	2,669.50	26,695.02
16	<b>Supply of Testing Kits</b>				
a)	GPS (Garmin map 785 model)	2	No.s	18,504.76	37,009.53
b)	Binoculars (Latest version)	2	No.s	3,155.75	6,311.51
c)	Off line overhead EHVAC Transmission Line Analyzer	1	Nos.	24,22,500.00	24,22,500.00
d)	Digital Earth Resistance Testing kit Make: Megger incl of all taxes.	2	Nos.	81,841.77	1,63,683.55
17	Portable Inflatable Lighting System with inflatable baloon, Storage Box, Rain Protection Gear, Wind Support, Tool Kit, Lamp with Requisite Control Gear, Blower,Trolley and other accessories (Reputed make: Aska or Equivalent)	1.00	Nos	1,69,638.75	1,69,638.75
18	Rechargeable Long Range LED Dragon Search Light, Handheld, 10W (Reputed make:Aska or Equivalent)	4.00	Nos	5,763.00	23,052.00
Total (Electrical)					35,98,36,470.83
19	Telecom Line materials :				
A) OFC (OPGW) & Accessories Supply:( Overhead)					
1)	24F OPGW Cable of DWSM type	20	Km	74,417.50	14,88,350.00

Sl.No.	Description of material	QTY	UOM	Unit rate (in Rs.)	Total Amount (in Rs.)
2)	Suspension clamp sets (grounding clamps are part of suspension assembly)	28	Sets	1,983.01	55,524.21
3)	Tension Assembly (Dead end Clamps and Grounding clamps are part of Tension Assembly)	86	Sets	1,691.47	1,45,466.08
4)	Vibration Dampers	142	Nos	518.30	73,598.03
5)	24F Splice Boxes (OPGW - OPGW)	6	Nos	3,061.62	18,369.74
6)	24F Splice boxes (OPGW - OFAC)	2	Nos.	3,061.62	6,123.25
7)	Down Lead Clamps	240	Nos	154.09	36,981.12
8)	Fibre Optic Distribution Panel (FODP) for termination of Fibres of 48 F capacity (Rack Mounted) with necessary pigtails and patch cord accessories	3	Nos	17,130.36	51,391.09
9)	Fibre approach cable (OFAC) 24 Fibres of DWSM type with 40/33 mm HDPE pipe along with Rope, suitable for laying in Ducts/Trenches	2	kM	57,951.10	1,15,902.19
<b>Overhead line Material ( OPGW) Total (A)</b>					<b>19,91,705.71</b>
<b>B) Spares of OFC (OPGW) Accessories</b>					
10	Suspension Assembly (Grounding clamps are part of suspension assembly)	3	Sets	1,983.01	5,949.02
11	Tension Assembly (Dead end Clamps and Grounding clamps are part of Tension Assembly)	8	Sets	1,691.47	13,531.73
12	Vibration Dampers	6	Nos	518.30	3,109.78
13	24F Splice Boxes (OPGW - OPGW)	1	Nos	3,061.62	3,061.62
14	24 FSplice boxes (OPGW - OFAC)	1	Nos.	3,061.62	3,061.62
15	Down Lead Clamps	8	Nos	154.09	1,232.70
<b>Line Material ( OPGW) Spares Total (B)</b>					<b>29,946.47</b>
<b>Total amount ( Telecom) in Rs.</b>					<b>20,21,652.18</b>
<b>Grand Total(Electrical &amp; Telecom) in Rs.- Schedule -A2</b>					<b>36,18,58,123.01</b>

SUPPLY OF MATERIAL/EQUIPMENT FOR 400 KV QMDC LINE FROM 400//11KV LIS VELGATOOR SUBSTATION TO 400/11 KV NAMAPUR SUBSTATION OF LINE LENGTH 22.5 KM IN LINK-II FOR LIFTING ADDITIONAL 1TMC WATER FROM GODAVARI BASIN UNDER KALESWARAM LIFT IRRIGATION SCHEME IN KARIMNAGAR (OLD) DISTRICT					
SCHEDULE - A3					
SUPPLY PRICES					
Sl.No	Description of material	QTY	UOM	Unit rate (in Rs.)	Total Amount (in Rs.)
1	Stubs & Cleats for all Towers (including 2.5% Extra of Bolts & Nuts )	98.000	MT	65,762.48	64,44,722.75
2	Super Structure for all Towers (Including Bolts & Nuts)	2747	MT	65,762.48	18,06,53,283.89
3	ACSR Moose Conductor	545	KM	2,59,848.40	14,16,17,378.00
4	<b>Hard Ware Fittings, Hardware &amp; Accessories Complete for Quadruple ACSR Moose Conductor</b>				
a)	Double Suspension Insulator Hardware Complete	208	Sets	14,930.01	31,05,442.50
b)	Quadruple Tension Hardware Complete	490	Sets	33,641.09	1,64,84,132.88
c)	Single Pilot Insulator Hardware Complete	147	Sets	25,694.17	37,77,043.58
d)	Midspan compression Joints	309	Nos.	736.36	2,27,536.32
e)	Quad Rigid spacers for ACSR Moose Conductor for Jumpers	716	Nos.	1,202.67	8,61,114.23
f)	Bundle spacers dampers Quad Moose ACSR Conductor	2754	Nos.	1,191.32	32,80,888.40
g)	Twin Moose Rigid Spacer (250mm spacing) for ACSR Moose	477	Nos.	241.01	1,14,961.29
h)	Repair Sleeves for ACSR Conductor	90	Nos.	277.93	25,013.97
5	7/3.66mm Galvanised Earthwire	23	KM	41,044.25	9,44,017.69
6	<b>Hard Ware Fittings &amp; Accessories for 7/3.66mm GS Earthwire</b>				
a)	Suspension Hardware Complete	35.00	Nos.	498.55	17,449.27
b)	Tension Hardware Complete	82.00	Sets	492.71	40,402.30
c)	Vibration Dampers	233.00	Nos.	304.92	71,046.48
d)	Flexible Copper Bonds with suitable bolts & nuts	116.00	Nos.	589.76	68,412.62
e)	Midspan compression Joints	12.00	Nos.	194.57	2,334.78
f)	Repair sleeves	12.00	Nos.	228.47	2,741.66
7	120KN Disc Insulators (Antifog type)	12950.000	Nos.	652.79	84,53,649.93
8	120KN Long Rod Insulators (one Set = 23 Nos. Disc insulators)	0.000	Sets	14,303.66	0.00
9	160KN Disc Insulators (Antifog type)	46403.000	Nos.	716.92	3,32,67,029.95
10	160KN Long Rod Insulators (one Set = 24 Nos. Disc insulators)	0.000	Sets	16,125.73	0.00
11	Number Plates with Bolts, Nuts & Washers	73.000	Nos.	175.63	12,820.77
12	Danger Plates with Bolts, Nuts & Washers	73.000	Nos.	175.63	12,820.77
13	Phase Plates with Bolts, Nuts & Washers (Set of Three R,Y & B)	146.000	Sets	175.63	25,641.54
14	Circuit Plates with Bolts, Nuts & Washers (Set of Two)	73.000	Sets	175.63	12,820.77
15	Bird Guards ( 1 Set = 6 Nos)	34.000	Sets	1,641.82	55,821.80
16	<b>Anti Climbing Devices</b>				
a)	Tangent Towers incl. contingencies	34.000	Nos.	3,432.11	1,16,691.84
b)	Small Angle Towers incl. contingencies	8.000	Nos.	4,576.40	36,611.20
c)	Medium Angle Towers incl. contingencies	7.000	Nos.	5,719.98	40,039.87
d)	Large Angle and Dead End Towers incl. contingencies	24.000	Nos.	5,719.98	1,37,279.56
17	<b>Earthing of the Towers</b>				
a)	Pipe type	73.000	Sets	1,113.26	81,268.13
b)	Counter Poise	10.000	Sets	2,669.50	26,695.02
18	<b>Supply of Testing Kits</b>				

Sl.No .	Description of material	QTY	UOM	Unit rate (in Rs.)	Total Amount (in Rs.)
a)	GPS (Garmin map 785 model)	2.000	No.s	18,504.76	37,009.53
b)	Binoculars (Latest version)	2.0	No.s	3,155.75	6,311.51
c)	Off line overhead EHVAC Transmission Line Analyzer	1.000	Nos.	24,22,500.00	24,22,500.00
d)	Digital Earth Resistance Testing kit Make: Megger incl of all taxes.	2	Nos.	81,841.77	1,63,683.55
Total (Electrical)					40,26,46,618.35
19	Telecom Line materials :				
A) OFC (OPGW) & Accessories Supply:( Overhead)					
1)	24F OPGW Cable of DWSM type	26	Km	74,417.50	19,34,855.00
2)	Suspension clamp sets (grounding clamps are part of suspension assembly)	34	Nos	1,983.01	67,422.26
3)	Tension Assembly (Dead end Clamps and Grounding clamps are part of Tension Assembly)	78	Nos	1,691.47	1,31,934.35
4)	Vibration Dampers	132	Nos	518.30	68,415.07
5)	24F Splice Boxes (OPGW - OPGW)	10	Nos	3,061.62	30,616.24
6)	24F Splice boxes (OPGW - OFAC)	2	Nos.	3,061.62	6,123.25
7)	Down Lead Clamps	360	Nos	154.09	55,471.68
8)	Fibre Optic Distribution Panel (FODP) for termination of Fibres of 48 F capacity (Rack Mounted) with necessary pigtails and patch cord accessories	2	Nos	17,130.36	34,260.73
9)	Fibre approach cable (OFAC) 24 Fibres of DWSM type with 40/33 mm HDPE pipe along with Rope, suitable for laying in Ducts/Trenches	2	kM	57,951.10	1,15,902.19
Overhead line Material ( OPGW) Total (A)					24,45,000.77
B) Spares of OFC (OPGW) Accessories					
10	Suspension Assembly (Grounding clamps are part of suspension assembly)	4	Nos	1,983.01	7,932.03
11	Tension Assembly (Dead end Clamps and Grounding clamps are part of Tension Assembly)	8	Nos	1,691.47	13,531.73
12	Vibration Dampers	4	Nos	518.30	2,073.18
13	24F Splice Boxes (OPGW - OPGW)	1	Nos	3,061.62	3,061.62
14	24 FSplice boxes (OPGW - OFAC)	1	Nos.	3,061.62	3,061.62
15	Down Lead Clamps	11	Nos	154.09	1,694.97
	Line Material ( OPGW) Spares Total (B)				31,355.15
	Total amount ( Telecom) in Rs.				24,76,355.92
	Grand Total(Electrical & Telecom) in Rs.- Schedule A3				40,51,22,974.27

**ABSTRACT - CIVIL & ERECTION - Schedule - B**

ERECTION OF 400/11KV NAMAPUR ( PEGADAPALLY) LIS SS AND CONNECTED LINE FROM KACHAPUR SW.S AND FROM VELGATOOR SSIN LINK-II FOR ADDITIONAL 1 TMC UNDER KALESWARAM SCHEME

SL. No	DESCRIPTION OF WORK	AMOUNT in RS.
1	SCHEDULE - B1(a): ELECTRICAL ERECTION OF 400 KV TMDC LINE FROM NAMAPUR (PEGADAPALLY) SWITCH YARD GANTRY TO TRANSFORMER DECK ( 2 KM)	62,74,131.69
2	SCHEDULE - B2(a): ELECTRICAL ERECTION OF 400 KV QMDC LINE FROM KACHAPUR TO NAMAPUR(PEGADAPALLY) (19.3KM)	484,31,045.00
3	SCHEDULE - B2(b): CIVIL ERECTION OF 400 KV QMDC LINE FROM KACHAPUR TO NAMAPUR(PEGADAPALLY) (19.3KM)	961,28,188.04
4	SCHEDULE - B3 (a) : ELECTRICAL ERECTION OF OF400 KV QMDC LINE FROM VELGATOOR SS TO NAMAPUR(PEGADAPALLY)- (22.5KM)	528,04,380.97
5	SCHEDULE - B3(b): CIVIL ERECTION OF OF400 KV QMDC LINE FROM VELGATOOR SS TO NAMAPUR(PEGADAPALLY)- (22.5KM)	934,39,990.24
	<b>Schedule B Total</b>	<b>2970,77,735.94</b>

**NOTES:**

- 1 GST extra at actuals.
- 2 All applicable taxes & duties including BOCW (if applicable), NAC are deemed to be included in above prices except GST as mentioned in Sl. No. 1.



SCHEDULE - B1(a)					
ERECTION OF 400 KV TMDC LINE ( PRESSURE MAIN TOWERS) FROM 400/11KV LIS NAMAPUR (PEGADAPALLY) SWITCH YARD GANTRY TO TRANSFORMER DECK ( 2 KM) IN LINK-II FOR LIFTING OF ADDITIONAL 1 TMC WATER FROM GODAVARI BASIN UNDER KALESWARAM LIFT IRRIGATION SCHEME IN KARIMNAGAR (OLD) DISTRICT.					
ERECTION TESTING AND COMMISSIONING WORKS					
Sl.No.	Description	Qty.	UOM	Unit rate (in Rs.)	Amount in Rs.
1	Check Survey, peg marking the tower positions on ground,conforming to the approved Profile and tower schedules using GPS,Total stations, DGPS etc.	2	KM	9,722.81	19,445.62
2	Excavation of trail pit (1mt x 1 mt x 4mt)	11	No	3,937.17	43,308.83
3	Setting with stub for all types of towers with stub setting template which includes erection of stubs, fixing of jacks for supporting template, alignment and leveling excluding cost of excavation and concrete (excluding transportation charges)	11.000	sets	21,072.17	2,31,793.89
4	Super Structure Erection of all Types of Towers including Anchor Towers and their Extensions (complete) including Fitting of Step Bolts, Danger Plates, Number Plates, Phase Plates, Circuit Plates, Bird Guards, Anti Climbing Devices etc. and Tack Welding of all bolts & nuts including cost of zinc rich paint ( upto bottom cross arm level)	371	MT	11,309.02	41,99,826.32
5	Mounting of Insulators & Stringing of Double Circuit Line with Quadruple ACSR Moose Power Conductor (Quadruple Bundled) per Phase including Laying, Jointing, Tensioning etc. Sagging and Clamping with necessary Accessories and fixing spacers ( Excluding transportation charges)	2	KM	6,75,188.30	13,50,376.61
6	Stringing of 1No 7/3.66mm Galvanized Steel Earthwire including Laying, Jointing, Tensioning etc. with necessary Accessories ( Excluding Transportation Charges).	4.000	KM	14,100.08	56,400.32
7	Stringing of 1No OPG wire including Laying, Jointing, Tensioning etc. with necessary Accessories Complete (Excluding Transportation Charges)	4.000	KM	69,414.80	2,77,659.20
8	<b>Earthing of Transmission Line Towers</b>				0.00
a)	Providing Pipe type Earthing including cost of BH Coke and Salt but excluding cost of earthing set	11	Each	5,794.81	63,742.88
b)	Providing Counter Poise Earthing excluding cost of all materials ( 4 sides of tower)	2	Each LOC.	4,857.73	9,715.47
c)	Providing Counter Poise Earthing using Bentonite and salt excluding cost of all materials ( 4 sides of tower)	3	Each LOC.	7,287.52	21,862.55
<b>Total Electrical Erection in Rs. - Schedule -B1 (a )</b>					<b>62,74,131.69</b>

SCHEDULE - B2(a)					
ERECTION OF 400 KV QMDC LINE FROM 400 KV KACHAPUR SWITCHING STATION TO 400/11KV LIS NAMAPUR SUBSTATION (19.3 KM)IN LINK-II FOR LIFTING OF ADDITIONAL 1 TMC WATER FROM GODAVARI BASIN UNDER KALESWARAM LIFT IRRIGATION SCHEME IN KARIMNAGAR (OLD) DISTRICT.					
ERECTION TESTING AND COMMISSIONING WORKS					
Sl.No.	Description	Qty.	UOM	Unit rate (in Rs.)	Amount in Rs.
1	Check Survey, peg marking the tower positions on ground,conforming to the approved Profile and tower schedules using GPS,Total stations, DGPS etc.	19.3	KM	9,722.81	1,87,650.23
2	Excavation of trail pit (1mt x 1 mt x 4mt)	66	No	3,937.17	2,59,852.96
3	Setting with stub for all types of towers with stub setting template which includes erection of stubs, fixing of jacks for supporting template, alignment and leveling excluding cost of excavation and concrete	66	sets	21,072.17	13,90,763.32
4	Super Structure Erection of all Types of Towers including Anchor Towers and their Extensions (complete) including Fitting of Step Bolts, Danger Plates, Number Plates, Phase Plates, Circuit Plates, Bird Guards, Anti Climbing Devices etc. and Tack Welding of all bolts & nuts including cost of zinc rich paint ( upto bottom cross arm level)	2515	MT	11,309.02	2,84,42,186.56
5	Mounting of Insulators & Stringing of Double Circuit Line with Quadruple ACSR Moose Power Conductor (Quadruple Bundled) per Phase including Laying, Jointing, Tensioning etc. Sagging and Clamping with necessary Accessories and fixing spacers <b>Under Normal Condition</b>	19.3	KM	6,75,188.30	1,30,31,134.25
6	Mounting of Insulators & Stringing of Double Circuit Line with Quadruple ACSR Moose Power Conductor (Quadruple Bundled) per Phase including Laying, Jointing, Tensioning etc. Sagging and Clamping with necessary Accessories and fixing spacers <b>Under Shut DownCondition</b>	2	KM	11,51,461.22	23,02,922.44
7	Stringing of 1No 7/3.66mm Galvanized Steel Earthwire including Laying, Jointing, Tensioning etc. with necessary Accessories <b>under Normal Condition</b>	19.3	KM	14,100.08	2,72,131.55
8	Stringing of 1No 7/3.66mm Galvanized Steel Earthwire including Laying, Jointing, Tensioning etc. with necessary Accessories <b>Under Shut DownCondition</b>	2	KM	24,046.18	48,092.35
9	Stringing of 1No OPG wire including Laying, Jointing, Tensioning etc. with necessary Accessories Complete (Excluding Transportation Charges) <b>under Normal Condition</b>	19.3	KM	69,414.80	13,39,705.63
10	Stringing of 1No OPG wire including Laying, Jointing, Tensioning etc. with necessary Accessories Complete (Excluding Transportation Charges) <b>under Shut DownCondition</b>	2	KM	1,18,379.49	2,36,758.98
11	<b>Earthing of Transmission Line Towers</b>				
a)	Providing Pipe type Earthing including cost of BH Coke and Salt but excluding cost of earthing set	66	Each	5,794.81	3,82,457.26
b)	Providing Counter Poise Earthing excluding cost of all materials ( 4 sides of tower)	5	Each LOC.	4,857.73	24,288.67
c)	Providing Counter Poise Earthing using Bentonite and salt excluding cost of all materials ( 4 sides of tower)	5	Each LOC.	7,287.52	36,437.59
12	Transportation arrangement to supervise and recording the measurements of works ( 15 MonthsX 225kMs X 25 Trips per month)	84375	KM	4.50	3,79,392.19
<b>Total Electrical Erection in Rs.</b>					<b>4,83,33,773.98</b>
	<b>Tele Com. Erection</b>				
13	Erection & commissioning of Fibre distribution panels for termination of 24 Fibers	2	Each	16,514.36	33,028.72
14	Erection & Commissioning of OFAC along with HDPE Duct pipe in Trench	2	Km	32,121.15	64,242.30
<b>Total Tele Com. Erection in Rs.</b>					<b>97,271.02</b>
<b>Grand Total ( Total Electrical Erection + Total Tele Com. Erection) in Rs.- Schedule B2 (a)</b>					<b>4,84,31,045.00</b>

SCHEDULE - B2(b)						
Name of the Work: Erection of QuadMoose DC line from Proposed 400KV Switching station to Proposed 400/11kV Namapur Substation						
SL.	QUANTITY		DESCRIPTION OF ITEM	Unit RATE (Rs.)	PER	AMOUNT (Rs.)
No.				Rs		Rs
1	40000.00	Cum	Earthwork excavation in all types of soils (including HDR, soft rock, F&F) (up to stone matrix) which can be excavated with pick axe and crow bars and do not require blasting in all conditions such as dry, wet and slushy etc. covering initial lead and lift etc and backfilling the foundations (after laying foundations) with excavated earth and consolidation in up to 0.15 m layer and constructing of platforms 150mm height around foundations utilizing the excavated earth etc. complete as per the directions of Engineer - In - Charge.	233.05	1 Cum	9322120.00
2	4000.00	Cum	Extra towards dewatering charges over an above the excavation rate for excavated earth quantity Where water table met at 1.50 m or more below G.L	29.28	1 Cum	117130.00
3	2000.00	Cum	Extra towards dewatering charges over an above the excavation rate for excavated earth quantity Where water table met between 0.75m and 1.50m depth below	103.91	1 Cum	207825.00
4	2000.00	Cum	Extra towards dewatering charges over an above the excavation rate for excavated earth quantity Where water table met with in 0.75 m depth below G.L	201.98	1 Cum	403954.00
5	8000.00	Cum	Excavation in HDR, soft rock, F&F (requiring blasting) where ever necessary. The rate includes labour charges, cost of blasting materials, tools and tackles, safety measures, disposal of unuseful excavted material at all leads and lifts, complete for finished item of work as per directions of the Engineer-in-charge. (For Foundation Works).	318.84	1 Cum	2550748.00
6	4000.00	Cum	Excavation in Hard rock (requiring blasting) The rate includes labour charges, cost of blasting materials, tools and tackles, safety measures, disposal of unuseful excavted material at all leads and lifts, complete for finished item of work as per directions of the Engineer-in-charge	817.01	1 Cum	3268046.00
7	500.00	Cum	Stone crusher dust filling below the foundations as per the standard specifications of APDSS in uniform horizontal layers including cost and conveyance of all materials, watering and ramming, tools & tackles, all labour charges, all leads & lifts etc, complete for finished item of work as per directions of the Engineer-in-	748.90	1 Cum	374450.50
8	1100.00	Cum	Laying of Cement Concrete (1:3:6) mix ( M 10 Nominal mix) using 40mm size HBG metal (Mixing with concrete mixer) or foundations including cost and conveyance of all materials at all leads and lifts, ramming, consolidating, curing etc, complete. for finished item of work as per directions of the Engineer-in-charge.	3989.87	1 Cum	4388852.60
9	490.00	MT	Providing High Yield Strength Deformed (HYSD)/ Thermo Mechanically Treated (TMT) (Fe 500/ 500D/550D) grade as per IS 1786-1979) of TISCO/ SAIL/ VSP/Jindal make, different diameters for RCC works , including labour charges for straightening, cutting, bending to required sizes and shapes, placing in position with cover blocks of approved materials and size and tying and lap-splicing with binding wire of 18 SWG, forming grills for reinforcement work as per approved designs and drawings, including cost and conveyance of steel bars, including all wastages such as overlaps, couplings, chairs, spacer bars including cost and conveyance of binding wire, cover blocks and all incidental, operational, labour charges such as cutting, bending, placing in position, tying including sales and other taxes on all materials etc., complete for finished item of work in all floors.( APSS No.126) as per directions of the Engineer-in-charge .	51384.31	1 MT	25178312.15
10	5500.00	Cum	RCC M- 20 Nominal mix (Cement 400 kgs ) using 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site and including Seigniorage charges, sales & other taxes on all materials including all operational, incidental and labour charges such as machine mixing, laying concrete, curing and centering, etc.,complete but excluding cost of steel and its fabrication charges for finished item of work.(cement 400 kg , sand 0.45 cum and metal 0.90 cum) as directed by Engineer-in-charge	8323.80	1Cum	45780872.50
11	100.00	Sqm	Plasteing in CM (1:4), 12 mm thick including cost and conveyance of all materials, labour charges , water lead, curing, all leads and lifts etc complete for finished item of work as per directions of the Engineer-in-charge .	144.26	1 Sqm	14426.20
12	200.00	Sqm	Providing shoring and strutting either with country wooden planks and scantlings or with steel sheets and props for excavation of pits for tower foundations wherever necessary including cost and conveyance of all materials, labour charges, tools & tackles, all leads & lifts and etc., complete for finished item of work as per directions of the Engineer-in-charge.	97.05	1 Sqm	19410.60

SL.	QUANTITY		DESCRIPTION OF ITEM	Unit RATE (Rs.)	PER	AMOUNT (Rs.)
No.				Rs		Rs
<b>Protection works</b>						
13	862.5	cum	Earthwork excavation in all types of soils (upto stone matrix) which can be excavated in combination of mechanically and manually with pick axe and crow bars and don't require blasting in all conditions such as dry, wet, slushy etc., covering initial lead and lift etc., including backfilling, watering, compacting as per standard specification and disposing of surplus earth within site (up to 1KM lead) complete as per directions of Engineer in charge at site for finished item of work.	134.46	1 cum	115973.04
14	138	Cum	Laying of Cement Concrete (1:4:8) mix using 40mm size HBG Machine crushed metal for foundations including cost and conveyance of all materials at all leads and lifts, ramming, consolidating, curing etc.complete. for finished item of work as per directions of the Engineer-in-charge.	3667.50	1 cum	506114.31
15	862.5	cum	Construction of RR Masonry in CM (1:6) using hard CRS, rough granite stone and bond stones (0.16 cum) including cost and conveyance of all materials, labour charges, water lead, Curing, all leads and lifts etc., complete for finished item of work as per directions of the Engineer-in-charge.	3446.62	1 cum	2972711.91
16	100.00	sqm	Providing and constructing 225mm thick rubble stone pitching (joints filled with cement mortar CM(1:5) proportion) including cost of all materials, labour, packing chips and mortar, finishing etc. complete for finished item of work as directed by the Engineer incharge.	263.77	1 sqm	26377.20
17	100.00	RM	Providing and fixing in position at all levels of Masonry walls as weep holes with 110 mm dia (4kg/cm2) PVC pipes of prince / sudhakar or any ISI brand make wherever necessary including fixing in position & at all leads & lifts etc. complete as per the directions of the Engineer in charge for the finished item of work.	174.32	1 RM	17431.80
18	100.00	sqm	Flush Pointing with CM (1:4) to RR Masonry walls including cost and conveyance of all materials, labour charges, water lead, curing,all leads and lifts complete as per the directions of the Engineer in charge for the finished item of work.	82.50	1 sqm	8250.10
19	25.00	cum	Plain Cement concrete - Nominal Mix (1:3:6) with 12 to 20mm HBG metal over RR wall including cost and conveyance of all materials, labour charges, water charges, tools and tackles, all leads & lifts etc., complete for finished item of work as per directions of the Engineer-in-charge. (IS-456)	4849.12	1 cum	121228.06
20	100.00	cum	Filling around the foundation / inside the rivetment walls if required where ever necessary with suitable borrowed earth other than clayey soils for filling as per the standard specifications of APDSS in uniform horizontal layers (0.15) including cost and conveyance of all materials, watering and ramming, tools & tackles, all labour charges, all leads & lifts etc, complete for finished item of work as per the directions of the Engineer-in-charge.	428.13	1 cum	42812.80
<b>Sub - Total</b>						<b>954,37,046.77</b>
21			Total for CIVIL WORKS		<b>Total</b>	<b>954,37,046.77</b>
			Towards seignorage charges including SMET (2% on seignorage charges) Fund	595704.22		5,95,704.22
22	0.10%		Cess towards NAC	954,37,046.77		95,437.05
			Add unforeseen items & PS			
<b>Grand Total Amount in Rs.- Schedule B2 (b)</b>						<b>961,28,188.04</b>

SEIGNORAGE CHARGE CALCULATION SHEET											
Name of the Work: Erection of QuadMoose DC line from Proposed 400KV Switching station to Proposed 400/11kV Namapur Substation											
Sl. No.	Description of Item	Item qty		Qty of Earth		Qty of Gravel		Qty of Sand		Qty of Metal incl Crusher dust and stones	
				Per unit	Total Qty in Cum	Per unit	Total Qty in Cum	Per unit	Total Qty in Cum	Per unit	Total Qty in Cum
1	Laying of CC(1:3:6)	1100.00	cum					0.45	495	0.9	990
2	RCC M20 Nominal mix	5500.00	cum					0.45	2475	0.9	4950
3	Plastering in CM(1:4) 12mm thick	100.00	Sqm					0.01575	1.575		
4	Laying of PCC 1:4:8	138.00	Cum					0.45	62.1	0.90	124.20
5	Construction of RR/ CRS Masonry	862.50	Cum					0.33	284.625	1.10	948.75
6	Providing 225mm rubble stone pitching	100.00	Sqm			1	100	0.0585	5.85		
7	Laying of PCC(1:3:6)	25.00	Sqm					0.45	11.25	0.90	22.50
8	Flush Pointing in CM(1:4)	100.00	Sqm					0.003	0.3		
9	sand filling	500.00	cum					1	500		
10	Filling with Borrowed earth	100.00	Cum	1	100						
Total Quantities					100.00		100.00		3835.70		7035.45
Seignorage charges				25.50	2550.00	25.50	2550.00	34.00	130413.80	63.75	448509.94
Total seignorage charges						584023.74					
SMET 2% on above						11680.47					
Total Amount in Rs. ( Seignorage charges )						595704.21					

SCHEDULE - B3(a)					
ERECTION OF 400 KV QMDC LINE FROM 400//11KV LIS VELGATOOR SUBSTATION TO 400/11 KV NAMAPUR SUBSTATION OF LINE LENGTH 22.5 KMIN LINK-II FOR LIFTING OF ADDITIONAL 1 TMC WATER FROM GODAVARI BASIN UNDER KALESWARAM LIFT IRRIGATION SCHEME IN KARIMNAGAR (OLD) DISTRICT.					
ERECTION TESTING AND COMMISSIONING WORKS					
Sl.No.	Description	Qty.	UOM	Unit rate (in Rs.)	Amount ( in Rs.)
1	Check Survey, peg marking the tower positions on ground,conforming to the approved Profile and tower schedules using GPS,Total stations, DGPS etc.	23.00	KM	9,722.81	2,23,624.63
2	Excavation of trail pit (1mt x 1 mt x 4mt)	73	No	3,937.17	2,87,413.12
3	Setting with stub for all types of towers with stub setting template which includes erection of stubs, fixing of jacks for supporting template, alignment and leveling excluding cost of excavation and concrete (excluding transportation charges)	73.00	sets	21,072.17	15,38,268.52
4	Super Structure Erection of all Types of Towers including Anchor Towers and their Extensions (complete) including Fitting of Step Bolts, Danger Plates, Number Plates, Phase Plates, Circuit Plates, Bird Guards, Anti Climbing Devices etc. and Tack Welding of all bolts & nuts including cost of zinc rich paint ( upto bottom cross arm level)	2747.00	MT	11,309.02	3,10,65,879.31
5	Mounting of Insulators & Stringing of Double Circuit Line with Quadruple ACSR Moose Power Conductor (Quadruple Bundled) per Phase including Laying, Jointing, Tensioning etc. Sagging and Clamping with necessary Accessories and fixing spacers ( Excluding transportation charges)	21.00	KM	6,75,188.30	1,41,78,954.36
6	Mounting of Insulators & Stringing of Double Circuit Line with Quadruple ACSR Moose Power Conductor (Quadruple Bundled) per Phase including Laying, Jointing, Tensioning etc. Sagging and Clamping with necessary Accessories and fixing spacers Shutdown Condition	2.000	KM	11,51,461.22	23,02,922.44
7	Stringing of 1No 7/3.66mm Galvanized Steel Earthwire including Laying, Jointing, Tensioning etc. with necessary Accessories .	21.000	KM	14,100.08	2,96,101.69
8	Stringing of 1No 7/3.66mm Galvanized Steel Earthwire including Laying, Jointing, Tensioning etc. with necessary Accessorie.Shutdown Conditions	2.000	KM	24,046.18	48,092.35
9	Erection & commissioning of OPGW including laying , jointing, tensioning , termination with suitable patch cards and testing etc. with necessary accessories	24	KM	69,414.80	16,65,955.19
10	Erection & commissioning of OPGW including laying , jointing, tensioning , termination with suitable patch cards and testing etc. with necessary accessories Shutdown Condition	2	KM	1,18,379.49	2,36,758.98

Sl.No.	Description	Qty.	UOM	Unit rate (in Rs.)	Amount ( in Rs.)
11	<b>Earthing of Transmission Line Towers</b>				
a)	Providing Pipe type Earthing including cost of BH Coke and Salt but excluding cost of earthing set	73	Each	5,794.81	4,23,020.91
b)	Providing Counter Poise Earthing excluding cost of all materials ( 4 sides of tower)	5	Each LOC.	4,857.73	24,288.67
c)	Providing Counter Poise Earthing using Bentonite and salt excluding cost of all materials ( 4 sides of tower)	5	Each LOC.	7,287.52	36,437.59
12	Transportation arrangement to supervise and recording the measurements of works ( 15 MonthsX 225kMs/trip X 25 Trips per month)	84375	KM	4.50	3,79,392.19
<b>Total Electrical Erection ( in Rs.)</b>					<b>5,27,07,109.95</b>
	<b>Tele Com. Erection</b>				
13	Erection & commissioning of Fibre distribution panels for termination of 24 Fibers	2	Nos	16,514.36	33,028.72
14	Erection & Commissioning of OFAC along with HDPE Duct pipe in Trench	2	Km	32,121.15	64,242.30
	<b>Total Tele Com. Erection ( in Rs.)</b>				<b>97,271.02</b>
	<b>Grand Total (Line + Tele Com.) in Rs. - Schedule B3 (a)</b>				<b>5,28,04,380.97</b>

SCHEDULE - B3(b)						
Name of the Work: Erection of QuadMoose DC line from Proposed 400/11 kV Velgatoor Substation to Proposed 400/11kV Namapur Substation						
S.No	QUANTITY		DESCRIPTION OF ITEM	Unit RATE ( Rs.)	PER	AMOUNT ( Rs.)
1	40500.00	Cum	Earthwork excavation in all types of soils (including HDR, soft rock, F&F) (up to stone matrix) which can be excavated with pick axe and crow bars and do not require blasting in all conditions such as dry, wet and slushy etc. covering initial lead and lift etc and backfilling the foundations (after laying foundations) with excavated earth and consolidation in up to 0.15 m layer and constructing of platforms 150mm height around foundations utilizing the excavated earth etc. complete as per the directions of Engineer - In - Charge.	233.05	1 Cum	9438646.50
2	4050.00	Cum	Extra towards dewatering charges over an above the excavation rate for excavated earth quantity Where water table met at 1.50 m or more below G.L	29.28	1 Cum	118594.13
3	2025.00	Cum	Extra towards dewatering charges over an above the excavation rate for excavated earth quantity Where water table met between 0.75m and 1.50m depth below G.L	103.91	1 Cum	210422.81
4	2025.00	Cum	Extra towards dewatering charges over an above the excavation rate for excavated earth quantity Where water table met with in 0.75 m depth below G.L	201.98	1 Cum	409003.43
5	4050.00	Cum	Excavation in HDR, soft rock, F&F (requiring blasting) where ever necessary. The rate includes labour charges, cost of blasting materials, tools and tackles, safety measures, disposal of unuseful excavated material at all leads and lifts, complete for finished item of work as per directions of the Engineer-in-charge. (For Foundation Works).	318.84	1 Cum	1291316.18
6	2025.00	Cum	Excavation in Hard rock (requiring blasting) The rate includes labour charges, cost of blasting materials, tools and tackles, safety measures, disposal of unuseful excavated material at all leads and lifts, complete for finished item of work as per directions of the Engineer-in-charge	817.01	1 Cum	1654448.29
7	500.00	Cum	Stone crusher dust filling below the foundations as per the standard specifications of APDSS in uniform horizontal layers including cost and conveyance of all materials, watering and ramming, tools & tackles, all labour charges, all leads & lifts etc, complete for finished item of work as per directions of the Engineer-in-charge.	712.95	1 Cum	356473.00
8	1100.00	Cum	Laying of Cement Concrete (1:3:6) mix ( M 10 Nominal mix) using 40mm size HBG metal (Mixing with concrete mixer) or foundations including cost and conveyance of all materials at all leads and lifts, ramming, consolidating, curing etc, complete. for finished item of work as per directions of the Engineer-in-charge.	3964.39	1 Cum	4360830.65



S.No	QUANTITY		DESCRIPTION OF ITEM	Unit RATE ( Rs.)	PER	AMOUNT ( Rs.)
9	490.00	MT	Providing High Yield Strength Deformed (HYSD)/ Thermo Mechanically Treated (TMT) (Fe 500/ 500D/550D) grade as per IS 1786-1979) of TISCO/ SAIL/ VSP/Jindal make, different diameters for RCC works , including labour charges for straightening, cutting, bending to required sizes and shapes, placing in position with cover blocks of approved materials and size and tying and lap-splicing with binding wire of 18 SWG, forming grills for reinforcement work as per approved designs and drawings, including cost and conveyance of steel bars, including all wastages such as overlaps, couplings, chairs, spacer bars including cost and conveyance of binding wire, cover blocks and all incidental, operational, labour charges such as cutting, bending, placing in position, tying including sales and other taxes on all materials etc., complete for finished item of work in all floors.( APSS No.126) as per directions of the Engineer-in-charge .	51384.31	1 MT	25178312.15
10	5500.00	Cum	RCC M- 20 Nominal mix (Cement 400 kgs ) using 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site and including Seigniorage charges, sales & other taxes on all materials including all operational, incidental and labour charges such as machine mixing, laying concrete, curing and centering, etc.,complete but excluding cost of steel and its fabrication charges for finished item of work.(cement 400 kg , sand 0.45 cum and metal 0.90 cum) as directed by Engineer in charge.	8298.33	1Cum	45640809.50
11	100.00	Sqm	Plasteing in CM (1:4), 12 mm thick including cost and conveyance of all materials, labour charges , water lead, curing, all leads and lifts etc complete for finished item of work as per directions of the Engineer-in-charge .	144.51	1 Sqm	14450.85
12	200.00	Sqm	Providing shoring and strutting either with country wooden planks and scantlings or with steel sheets and props for excavation of pits for tower foundations wherever necessary including cost and conveyance of all materials, labour charges, tools & tackles, all leads & lifts and etc., complete for finished item of work as per directions of the Engineer-in-charge.	97.05	1 Sqm	19410.60
			<b>Protection works</b>			0.00
13	925.00	cum	Earthwork excavation in all types of soils (upto stone matrix) which can be excavated in combination of mechanically and manually with pick axe and crow bars and don't require blasting in all conditions such as dry, wet, slushy etc., covering initial lead and lift etc., including backfilling, watering, compacting as per standard specification and disposing of surplus earth within site (up to 1KM lead) complete as per directions of Engineer in charge at site for finished item of work.	134.46	1 cum	124376.89
14	148.00	Cum	Laying of Cement Concrete (1:4:8) mix using 40mm size HBG Machine crushed metal for foundations including cost and conveyance of all materials at all leads and lifts, ramming, consolidating, curing etc,complete. for finished item of work as per directions of the Engineer-in-charge.	3642.03	1 cum	539020.29

S.No	QUANTITY		DESCRIPTION OF ITEM	Unit RATE ( Rs.)	PER	AMOUNT ( Rs.)
15	925.00	cum	Construction of RR Masonry in CM (1:6) using hard CRS, rough granite stone and bond stones (0.16 cum) including cost and conveyance of all materials, labour charges, water lead, Curing, all leads and lifts etc., complete for finished item of work as per directions of the Engineer-in-charge.	3412.05	1 cum	3156149.03
16	100.00	sqm	Providing and constructing 225mm thick rubble stone pitching (joints filled with cement mortar CM(1:5) proportion) including cost of all materials, labour, packing chips and mortar, finishing etc. complete for finished item of work as directed by the Engineer incharge.	254.06	1 sqm	25405.65
17	100.00	RM	Providing and fixing in position at all levels of Masonry walls as weep holes with 110 mm dia (4kg/cm2) PVC pipes of prince / sudhakar or any ISI brand make wherever necessary including fixing in position & at all leads & lifts etc. complete as per the directions of the Engineer in charge for the finished item of work.	174.32	1 RM	17431.80
18	100.00	sqm	Flush Pointing with CM (1:4) to RR Masonry walls including cost and conveyance of all materials, labour charges, water lead, curing, all leads and lifts complete as per the directions of the Engineer in charge for the finished item of work.	82.55	1 sqm	8255.20
19	25.00	cum	Plain Cement concrete - Nominal Mix (1:3:6) with 12 to 20mm HBG metal over RR wall including cost and conveyance of all materials, labour charges, water charges, tools and tackles, all leads & lifts etc., complete for finished item of work as per directions of the Engineer-in-charge. (IS-456)	4823.65	1 cum	120591.20
20	100.00	cum	Filling around the foundation / inside the rivetment walls if required where ever necessary with suitable borrowed earth other than clayey soils for filling as per the standard specifications of APDSS in uniform horizontal layers (0.15) including cost and conveyance of all materials, watering and ramming, tools & tackles, all labour charges, all leads & lifts etc, complete for finished item of work as per the directions of the Engineer-in-charge.	428.13	1 cum	42812.80
Sub - Total in Rs.						927,26,760.95
21			Total Amount for Civil Works			927,26,760.95
			Towards seignorage charges including SMET (2% on seignorage charges) Fund	620502.53		6,20,502.53
22	0.10%		Cess towards NAC	927,26,760.95		92,726.76
Grand Total Amount in Rs.- Schedule B3 (b)						934,39,990.24

### SEIGNORAGE CHARGE CALCULATION SHEET

Name of the Work: Erection of QuadMoose DC line from Proposed 400/11 kV Velgatoor Substation to Proposed 400/11kV Namapur Substation

Sl. No.	Description of Item	Item qty		Qty of Earth		Qty of Gravel		Qty of Sand		Qty of Metal incl Crusher dust and stones	
				Per unit	Total Qty in Cum	Per unit	Total Qty in Cum	Per unit	Total Qty in Cum	Per unit	Total Qty in Cum
1	Laying of CC 1:4:8	148.00	Cum					0.45	66.6	0.90	133.20
2	Construction of RR/ CRS Masonry	925.00	Cum					0.33	305.25	1.10	1017.50
3	Laying of PCC 1:3:6	1125.00	Cum					0.45	506.25	0.90	1012.50
4	Flush pointing CM (1:4)	100.00	Sqm					0.003	0.3		
5	Plastering 12mm thk	100.00	Sqm					0.01575	1.575		
6	Providing Sand cushion	0.00	Cum					1.00	0.00		
7	Providing Crusherdust cushion	500.00	Cum							1.00	500.00
8	RCC M20 / PCC M20 nominal mix	5500.00	Cum					0.45	2475.00	0.90	4950.00
9	Filling Fdn with borrowed earth	100.00	Cum	1.00	100						
10	Filling Fdn with borrowed gravel	0.00	Cum			1.00	0				
11	Rubble stone pitching	100.00	sqm							1	100
Total Quantities					100.00		0.00		3354.98		7713.20
Seignorage charges				25.50	2550.00	25.50	0.00	34.00	114069.32	63.75	491716.50
Seignorage charges						608335.82					
SMET 2% on above						12166.72					
<b>Total Seignorage Charges</b>						<b>620502.54</b>					

Price Schedule / Price Bid

NAME OF WORK :- TENDER SPECIFIC STRATEGIC TIE-UP FOR EXECUTION AND HANDING OVER OF FOLLOWING 400 KV TRANSMISSION LINE WORK INCLUDING ARRANGEMENT /SETTLEMENT OF RIGHT OF WAY ON EPC BASIS) FOR TSTRANSCO'S TENDERS AT TELANGANA UNDER KALESWARAM LIFT IRRIGATION PROJECT".

DETAILS OF TRANSMISSION LINE UNDER THE TSTRANSCO'S TENDER BID NOTICE NO.:- e-TSTLI-04/2021:

1) 400 KV TMDC LINE FROM NAMAPUR SUBSTATION SWITCHYARD TO TRANSFORMER DECK OF PUMP HOUSE OF LENGTH 2 KM

2) 400KV QMDC LINE FROM 400KV KACHAPUR SWITCHING STATION TO 400/11KV NAMAPUR (PEGADAPALLY) SS OF LINE LENGTH 19.3 KM.

3) 400KV QMDC LINE FROM 400KV VELGATOOR SWITCHYARD TO 400/11KV NAMAPUR (PEGADAPALLY) SS OF LINE LENGTH 22.5 KM.

TENDER SPECIFICATION NO.:-TBSM/NAMAPUR /STE-01/TENDER /21-22 DATE: 30.04.2021

Name of Bidder						
(This BOQ template must not modified/ Replaced by the bidder and same shall be uploaded after filling the relevant columns , else the bidder is liable to be rejected for this tender. Bidders has to be fill the Bidder Name and values only)						
Sl No.	Item Description	Quantity	Units	Estimated Rate in Rs.	Total Amount Without taxes (Rs.)	Total Amount ( in words)
1	Total amount as per rates in BOQ (as per "Schedule C") for "TENDER SPECIFIC STRATEGIC TIE-UP FOR EXECUTION AND HANDING OVER OF FOLLOWING 400 KV TRANSMISSION LINE WORK INCLUDING ARRANGEMENT /SETTLEMENT OF RIGHT OF WAY ON EPC BASIS) FOR TSTRANSCO'S TENDERS AT TELANGANA UNDER KALESWARAM LIFT IRRIGATION PROJECT".  DETAILS OF TRANSMISSION LINE UNDER THE TSTRANSCO'S TENDER BID NOTICE NO.:- e-TSTLI-04/2021: 1) 400 KV TMDC LINE FROM NAMAPUR SUBSTATION SWITCHYARD TO TRANSFORMER DECK OF PUMP HOUSE OF LENGTH 2 KM 2) 400KV QMDC LINE FROM 400KV KACHAPUR SWITCHING STATION TO 400/11KV NAMAPUR (PEGADAPALLY) SS OF LINE LENGTH 19.3 KM. 3) 400KV QMDC LINE FROM 400KV VELGATOOR SWITCHYARD TO 400/11KV NAMAPUR (PEGADAPALLY) SS OF LINE LENGTH 22.5 KM.	1.00	Nos	11060,31,522.75	11060,31,522.75	Rs. One Hundred Ten Crore Sixty Lakhs Thirty One Thousand Five Hundred Twenty Two and paisa Seventy Five only.
Total in Figures					11060,31,522.75	Rs. One Hundred Ten Crore Sixty Lakhs Thirty One Thousand Five Hundred Twenty Two and paisa Seventy Five only.
Quoted Rate in Figures			Select	Excess/Less/ at par		
Quoted Rate in Words						