

GUJARAT ENERGY TRANSMISSION CORPORATION
Vidyut Bhavan, Race Course,
VADODARA – 390 007



TENDER SPECIFICATIONS
FOR

Supply, Erection, Testing & Commissioning of Lilo of both circuits of 220kV D/C Viramgam - Neno Line at 220kV Khoraj Substation through D/C and M/C towers with AL59 Conductor (Equivalent weight of ACSR Zebra) with 48F OPGW Cable under Surendranagar circle on turnkey basis.

: TENDER SPECIFICATION NO :

ACE(P&C)/Contract/E-479/TL/220kV/S&E

PRICE BID

PART-III
For Reference Only

SEAL & SIGNATURE
OF BIDDER

BIDDING SCHEDULE		
FOR REFERENCE ONLY		
Supply, Erection, Testing & Commissioning of Lilo of both circuits of 220kV D/C Viramgam - Neno Line at 220kV Khoraj Substation through D/C and M/C towers with AL59 Conductor (Equivalent weight of ACSR Zebra) with 48F OPGW Cable under Surendranagar circle on turnkey basis.		
Tedner No. ACE(P&C)/Contract/E-479/TL/220kV/S&E		
Sr. No.	Description of Works - SAC Code 9954	Amount in Rs.
PART -A	Supply of Materials	1,80,96,502.13
PART -B, SCHEDULE -01	Erection of Line	3,06,72,815.44
TOTAL F.O.R. COST WITHOUT GST		4,87,69,317.57
Service of "Works Contracts" GST @ 18% (SAC 9954)		87,78,477.16
TOTAL END COST WITH GST		5,75,47,794.74

I am / we are willing to carry out this service package of works contract stated above at GST 18% (in figure) _____ % (in words _____ %) below / above the estimated TOTAL END COST for all the items stated there in.

The amount of tender works out with above % (in figure) for TOTAL END COST Rs. _____ (in words Rs. _____).

I / we confirm that our above quoted rates are ON firm price basis; except (i) Supply of Tower Materials (Including Bolts-Nuts) and (ii) Hardware & Accessories of Conductor. for which Price variation will be applicable.

NOTE:

1) Separation of the Contract into Supply of Goods, Services and Civil Work, is only for convenience and better economical management and for the ease of Accountancy but the entire Contract, is to be assessed under GST Law, as the Works Contract Service, which is, as per the provisions of Section 2(30), read with, Section 2(119), further read with, Paragraph 6(a) of the Schedule II to the CGST Act, 2017 or SGST Act, 2017 and similar provisions, applicable under the UTGST Act, 2017 and the IGST Act, 2017 and the entire activity, would be subjected to levy of Tax, at the rate of 9% CGST + 9% SGST or 18% IGST, under the GST Law. However, Classification Codes for different segments or portions of the Works Contract, may be specified separately, in the Supplies, with a final common Classification Code of Works Contract Service.

2) The Bidder is hereby conveyed that only SAC Code and Tax rate for supply of Service Works Contract i.e. 18% is relevant for the purpose of contract since the contract is works contract and any separation in the works is for better management and convenience purpose.

It is to state that bidders are however requested to fill the HSN code item by item for the knowledge and transparency purpose which shall have no bearing on price or taxation payment.

Signature of Authorized Representative of Company / Agency

SEAL & SIGNATURE
OF BIDDER

Name _____
Status _____
Name of bidder Company

SUPPLY PORTION

PART - A

FOR REFERENCE ONLY

Supply, Erection, Testing & Commissioning of Lilo of both circuits of 220kV D/C Viramgam - Neno Line at 220kV Khoraj Substation through D/C and M/C towers with AL59 Conductor (Equivalent weight of ACSR Zebra) with 48F OPGW Cable under Surendranagar circle on turnkey basis.

Tedner No. ACE(P&C)/Contract/E-479/TL/220kV/S&E

Sr. No.	Description of Supply with Detail Specification of Service Package - Works Contract (SAC Code: 9954)	HSN / SAC code for identification only	Unit	Quantity	Unit Rate	Unit Freight, Packing & Forwarding charges	Unit Insurance Charges in Rs.	FOR Unit Rate in Rs.	FOR Total Cost (Excl. GST) in Rs.
1	2	3	4	5	6	7	8	9 = (6+7+8)	10 = (5x9)
A	Supply of Materials								
A.1	Tower Materials								
A.1.1	Steel Part (MS)		MT	46.573	103388.00	2355.00	1009.00	106752.00	4971760.90
A.1.2	Steel Part (HT)		MT	89.242	110120.00	2374.00	1018.00	113512.00	10130037.90
A.1.3	Bolt Nuts		MT	7.472	141140.00	2355.00	1009.00	144504.00	1079733.89
A.2	AL-59 Conductor (61/3.50)		KM	0.00	551382.00	2513.00	1077.00	554972.00	0.00
A.3	Silicon Rubber Insulators								
A.3.1	220kV, 90kN Suspension SRI		Nos.	19	4378.00	86.00	37.00	4501.00	85519.00
A.3.2	220kV, 120kN Tension SRI		Nos.	134	4591.00	86.00	37.00	4714.00	631676.00
A.4	Insulator hardware for AL-59 Conductor (61/3.50)								
A.4.1	Single Suspension		Nos.	18	2447.00	18.00	8.00	2473.00	44514.00
A.4.2	Single Tension		Nos.	132	4467.00	28.00	12.00	4507.00	594924.00
A.4.3	Double Suspension		Nos.	0	5257.00	36.00	16.00	5309.00	0.00
A.4.4	Double Tension		Nos.	0	7881.00	54.00	23.00	7958.00	0.00
A.4.5	P. A. Rod		Nos.	0	3437.00	12.00	5.00	3454.00	0.00
A.4.6	Mid Span Joint		Nos.	5	1607.00	7.00	3.00	1617.00	8085.00
A.4.7	Vibration Damper		Nos.	240	1243.00	12.00	5.00	1260.00	302400.00
A.4.8	Repair Sleeve		Nos.	1	695.00	7.00	3.00	705.00	705.00
A.5	OPGW								
A.5.1	48 Fibre (DWDM) OPGW fibre Optic cable		kM	0.996	195533.00	2385.00	1022.00	198940.00	198144.24

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A.5.2	Installation Hardware set * & accessories for above OPGW i.e. all cable fittings & accessories like suspension clamps, tension clamps, vibration dampers, earthing clamps, down lead clamps, in-line splice enclosures etc. including; Pigtails FC-PC type) a) Fibre Optic Approach Cable - 400 Mtrs - For 220KV S/S & 500 Mtrs - For 400KV S/S (with installation hardware like ties/ clips / cleats, conduits, ducts, supports, fittings, accessories etc). (Any variation in quantities shall be absorbed by contractor)		kM	0.996	48279.00	644.00	276.00	49199.00	49002.20
TOTAL COST PART - A WITHOUT GST									18096502.13
Service of "Works Contracts" GST @ 18% (SAC 9954)									3257370.38
TOTAL COST PART - A WITH GST									21353872.52

Note:

- 1). One set of installation hardware shall contain all installation hardware fittings as may be required for 1 km of OPGW cabling.
- 2). LCT (Local Craft Terminal- Laptop) with EMS software shall have to be supplied by Manufacturer free of cost for local as well as remote configuration of FOTE equipment.
- 3) Rates are taken from SoR 2024-25 for transmission line materials

OEM will have to submit confirmation in written for following.

- 1). The bidder shall furnish the copies of valid type test reports for the offered equipment from NABL accredited Laboratory or KEMA type tested.
- 2). The bidder should have to confirm for guarantee of 5 years from the date of receipt of equipment in store in good condition or three years from the date of commissioning of offered FOTE (Operational for Speech+DATA+Protection + Remote SCADA over OPGW) at respective Sub-station which ever will be earlier.
- 3). The bidder should have to confirm the service and spares support for at least 10 years after the guarantee period.

ERECTION PORTION

PART B

SCHEDULE - 01

FOR REFERENCE ONLY

Supply, Erection, Testing & Commissioning of Lilo of both circuits of 220kV D/C Viramgam - Neno Line at 220kV Khoraj Substation through D/C and M/C towers with AL59 Conductor (Equivalent weight of ACSR Zebra) with 48F OPGW Cable under Surendranagar circle on turnkey basis.

Tedner No. ACE(P&C)/Contract/E-479/TL/220kV/S&E

Sr. No.	Description of Supply with Detail Specification of Service Package - Works Contract (SAC Code 9954)	HSN / SAC code for identification only	Unit	Quantity	Unit Rate	FOR Total Cost (Excl. GST) in Rs.
B	ERECTION OF LINE					
1	<p>The work of detail survey, preparation and submission of profiles in 6 copies (PLSCAD as well as hardcopy), Detail scope of Work :- (a) Fixing of tower as per actual requirement, site condition and plotting of line on profile having standard details i.e. span length, lat-long (co-ordinate), chainage, weight and wind span, all dimensions, scale, legends, tower spotting data etc. as per requirement and along with all require details. (c) Preparation and submission of tower schedule as per standard require details with all the Major - Minor crossing details in profile drawing and tower schedule, along with due care of clearance as per prevailing standards i.e., for all electric line with pole, all type of track, river, pond, nala, road, canal etc. (d) Details of Right of Way in profile drawing. i.e. Building, Temple, Well etc. (g) Plotting line on TIKKA-MAP (Revenue Land map) - Required TIKKA-MAP will be provided by GETCO. Importantly, any work other than mentioned will align with the specific requirements outlined by the Engineer-in-Charge.</p> <p>Note : The survey report will be submit with sign and stamp of the surveyor agency and engineer in charge.</p>		kM	0.996	10222	10181.11
2	Check Survey along with plotting of line route on village (tika) map with Coordinates including detailed survey, preparation of profiles and revision in original route alignment, if any and as per instruction of EIC.		kM	0.996	9277.00	9239.90
3	Excavation excluding back filling, but including shoring, shuttering, dewatering, tree cutting for tower footings etc. for:-					
	a) Normal soil either dry or wet / Sandy soil		Cu.m	710.07	307.00	217990.57
	b) Black cotton soil either dry or wet		Cu.m	3455.373	614.00	2121599.03
	c) Normal submerged/marine soil where dewatering is necessary.		Cu.m		484.00	0.00
	d) Black cotton submerged / Marine soil where dewatering is necessary		Cu.m		703.00	0.00
	e) Soft Rock		Cu.m		1066.00	0.00
f) Hard Rock		Cu.m		2212.00	0.00	

Sr. No.	Description of Supply with Detail Specification of Service Package - Works Contract (SAC Code 9954)	HSN / SAC code for identification only	Unit	Quantity	Unit Rate	FOR Total Cost (Excl. GST) in Rs.
4	Installation of steel reinforcement in concrete foundation including supply of GETCO Approved M.S. bars, binding wire. Work also includes their cutting, bending, shaping and binding with binding wire and fixing in position of TMT bars as per drawing before the concrete work and as per instruction of the EIC		MT	87.6570	99900.00	8756934.30
5	Stub-setting with prop or template including back-filling, during back filling dispose of excess soil and levelling of site is to be done as per instructions of EIC but excluding excavation and concreting etc. for all types of towers/extensions except special towers. (Weight of stub, cleat & template with Bolt & Nuts of stub & template shall be counted)		MT	16.611	8206.00	136308.95
6	---- Do ---- up to 9 to 25 mtr extension		MT		9918.00	0.00
7	Concreting of foundation by M20/M15/M25 mixture including shoring, shuttering, compaction, dewatering etc. for normal tower / tower with extension upto 25mtr. After completion of concrete work, curing (watering to concrete) is to be done as per instruction of EIC. (Rates are inclusive of supply of GETCO approved Cement only.)					
	(a) M20		Cu.m	1383.100	12246.00	16937442.60
	(b) M15		Cu.m	3.68	10306.00	37926.08
	(C) M10 (Ref.: 05003A, CHAPTER - 5: CONCRETE WORK, SOR of BUILDINGS, ROADS & BRIDGES WORKS OF EE(S) SURENDRANAGAR)		Cu.m	59.92	2926.96	175383.45
8	Grounding of towers with pipe type earthing including excavation and back filling, with supply of all materials like 32mm dia heavy duty 3 mtr. long G.I. Pipe, 50 x 6 mm G.I. flat, GI bolt-nuts, with GI spring washer, salt, charcoal etc. as per drawing and as per instruction of EIC.		Set.	8	8985.00	71880.00
9	Grounding of towers with COUNTER POISE TYPE including excavation and back-filling and supply of all materials like GSS wire, GI lugs, GI bolt-nuts, GI Spring Washer, salt, charcoal etc. as per drawing and as per instruction of EIC.		Set.		15756.00	0.00
10	Erection of super structure upto 6 meter extension including tree cutting, fixing of tower accessories, attachments except ACD /DP /NP /CIP /PP and excluding tack welding of bolts as per instruction of EIC. This includes taking delivery of tower materials and bolt-nuts from GETCO's stores etc. for normal, extension & special towers at destination and keeping them in safe custody and transporting the same to erection site.		MT	130.037	10076.00	1310252.82
11	Same as above but erection of 9/12/15/18/21/25 Mtr. extension with tower.		MT		12694.00	0.00
12	Fixing of Anti-climbing devices including supply of barbed wire as per drawing and as per instruction of EIC. (C) 220kV		Loc.	8	3589.00	28712.00

Sr. No.	Description of Supply with Detail Specification of Service Package - Works Contract (SAC Code 9954)	HSN / SAC code for identification only	Unit	Quantity	Unit Rate	FOR Total Cost (Excl. GST) in Rs.
13	Fixing of DP / NP / PP / CIP including supply of plates and supply of G.I. bolt-nuts & tack welding as per drawings. (D/C)		Loc.	6	3379.00	20274.00
14	Fixing of DP / NP / PP / CIP including supply of plates and supply of G.I. bolts-nuts & tack welding as per drawings and as per instruction of EIC. (M/C)		Loc.	2	6758.00	13516.00
15	Tack welding of nuts upto approx. 10 mtrs. height OR two bottom-most panel from ground level at three places on the nuts diametrically and applying zinc rich paint immediately after tack welding and as per instruction of EIC.		Per Bolt	18550.0	15.00	278250.00
15	Stringing of ACSR/ AAAC/AL-59 6 (Six conductors for Double circuit including laying, jointing, tensioning, clamping with armour rods, hoisting of insulator string fixing of jumpers, dampers etc. & with required tree cutting on entire length for adequate clearances / safe charging of line, as per instruction of EIC.		RKM	0.882	158530.00	139823.46
16	Stringing of ACSR/ AAAC/AL-59 12 (Twelve conductors for Multicircuit including laying, jointing, tensioning, clamping with armour rods, hoisting of insulator string fixing of jumpers, dampers etc. & with required tree cutting on entire length for adequate clearances / safe charging of line, as per instruction of EIC.		RKM	0.114	317060.00	36144.84
17	Termination and connection for making LOOP-IN-LOOP-OUT arrangement with existing line during specified outage including restringing of existing conductors OR dismantling / new stringing for making LILO arrangements with existing line or for change over line as per approved LILO arrangement in profile as per instruction of EIC in COLD CONDITION and dismantled materials to be credited to near by GETCO's store or sub station as per inst. of EIC.		Job Work	1.000	161153.000	161153.00
18	Complete Installation of OPGW cable (24/48 fibres) including laying, providing required hardwares, in line splices to be encased in Fibre Optic Splice Enclosures, Laying and termination of a fibre optic approach cable required to connect Overhead Fiber Optic Cable (OPGW) between the final in line splice enclosure on the gantry/tower and the Fibre Optec Distribution panel (FODP) to be installed within the building at both the substation ends as per technical specifications		kM	0.996	97193.00	96804.23
19	Link up of OPGW Cable including all related activities as per inst. Of EIC.		kM	0.996	8850.00	8814.60
20	Dismantling of any type of tower including transportation & crediting to nearest GETCO's store or substation as per instruction of EIC.		Per MT	1.000	8434.00	8434.00
21	Cutting of stubs of old tower to be dismantled including breaking of chimney/cutting of RCC upto 450mm below ground level & crediting stubs & steel bars to GETCO's store or substation including back-filling & leveling of site as per inst. of EIC.		Per tower	1.000	12618.00	12618.00

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22	Dismantling of conductors and line materials of existing line including transportation & crediting to nearest GETCO's store or substation as per instruction of EIC.: (A) COLD CONDITION -6 Conductors		Rkm	0.854	92298.00	78822.50
23	Work of Painting of Line name, Location No., two coat Painting Color code of desired length and telephone no. on Tower Leg with letter of Gujarati language using ISI marked Paint as per instruction of EIC including Supply of paints and other require materials.. b) All four legs - For 2 Nos. of Line (D/C)		Per Loc.	6	431.00	2586.00
24	Work of Painting of Line name, Location No., two coat Painting Color code of desired length and telephone no. on Tower Leg with letter of Gujarati language using ISI marked Paint as per instruction of EIC including Supply of paints and other require materials.. b) All four legs - For 4 Nos. of Line (M/C)		Per Loc.	2	862.00	1724.00
TOTAL COST PART - B, SCHEDULE - 01 WITHOUT GST						30672815.44
Service of "Works Contracts" GST @ 18% (SAC 9954)						5521106.78
TOTAL COST PART - B, SCHEDULE - 01 WITH GST						36193922.22

Note :

NOTE :

- 1 While calculating the weight of stub-setting, the weight of stub, cleat & templates shall also be added in stub weight
- 2 Red oxide & zinc rich paint shall be applied after tack welding of nuts.
- 3 The above rates are with supply of GETCO approved cement and steel by the contractor.
- 4 For concreting work, mixture machine is to be used as per site condition and as per inst. of EIC.
Tower dismantling work should be carried out with help of using rust free spary and without cutting of any members / leg / stub and as per inst. of EIC. , where applicable. Also there is dismantling of 6 conductor ACSR Zebra line having route length of 854mtr(353+319+182mtr)
- 5 Calculation base for Nutbolts quantity per MT consider is as follows;
For D/C tower= 375Nos X32.413MT=12514.875Nos (375nos/MT)
ForM/C tower= 425Nos X14.160MT=6018.00Nos (425nos/MT)
Total = 18532.875 say 18,550 Nos
- 6 The rate indicated above includes taking delivery of all stringing material from contractor store GETCO's store keeping them in safe custody and transporting the same to erection site.
- 7 For any crediting of material related work, agency has to submit the original gate pass copy / CR copy with required documents as per inst. and as per requirement of EIC or when demanded.
- 8 If conductor provided by GETCO, Contractor has to returned back empty steel drums at GETCO's store immediately on completion of stringing work as per instruction of EIC. If fail to submit in given time period the necessary action will be imposed by concered authority.
- 9

Signature of Authorized Representative
of Company / Agency

Name _____
Status _____
Name of bidder Company

SEAL & SIGNATURE
OF BIDDER