

# GUJARAT ENERGY TRANSMISSION CORPORATION LTD.



**Tender No: 2026-27/HTC / 21**

**(Price Bid)**

## **NAME OF WORK**

**Tender for Bi-ARC Emergency Restoration work of 66KV/132KV/220KV Transmission line on Tower / H Frame structure with ACSR Dog/Panther/Zebra/Equivalent AL-59 Conductor under Himatnagar circle.**

**GUJARAT ENERGY TRANSMISSION CORPORATION LTD**

**TRANSMISSION CIRCLE ,HIMATNAGAR**

**SCHEDULE-B**

SR No.	Description of Work/Supply item	Amount
1	<b>Tender for Bi-ARC Emergency Restoration work of 66KV/132KV/220KV Transmission line on Tower / H Frame structure with ACSR Dog/Panther/Zebra/Equivalent AL-59 Conductor under Himatnagar circle.</b>	75,12,500.00
	GST 18.00 %	<b>13,52,250.00</b>
	Welfare cess @ 1.00 %	<b>As Actual</b>
	<b>Total in Rs</b>	<b>88,64,750.00</b>

**Item Wise Rate**

Sr. No.	Description.	Unit	Rates
	<b>(Part-A)</b>		
1	Work of an original survey with line route alignment, preparation & submission of detail reports as per requirement of EIC in 6 copies including excavation for trail pits in any type of soil for soil classification work, the size of trial pits is 1x1x3 meter, 2 Nos. of such pits in 1kmlength & providing and fixing of pre-cast permanent concrete blocks/stones of 150mm x 100mm x 300mm (LxBxH) on each deviation point I trial pit on entire line with chain age I Trail Pit number (TP-1) painted on it as per instruction of the EIC. The rate is inclusive of back filling of the pits so excavated after classification of soil for foundation. Detail scope of Work :- (a) Submission of feasible and shortest 3 numbers of line route on survey of India topo sheet and kmz file. Also, fixing and submission of one final route on survey of India Topo Sheet, on google map and kmz file as per requirement.	KM	9467

	<p>(c) Preparing tower schedule with details like type of tower with summary · Indication of all angle point with fixing of suspension tower in between angle point, foundation type, sectional length, lat-long (co-ordinate), name of village, land type (Waste or agriculture), BOQ of foundation, BOQ of tower etc. as per requirement of EIC.</p> <p>(d) To take level of major crossing with detail &amp; indicate detail about major nearby installation Like defense, Airport, Oil filled etc.</p> <p>(e) Submit all type of statutory details with drawing, which require for statutory approval i.e. Crossing of Electric Line (all type), Gas Line, National I State highways, Railway, Canal Forest etc</p>		
	x 100mm x 300mm (LxBxH) on each deviation point I trial pit on entire line with chain age		
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	KM	9277
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	307
	b) Black Cotton Soil either dry or wet	Cu.m	614
	c) Normal submerged/marine soil where dewatering is necessary.	Cu.m	484
	d) Black cotton submerged/marine soil where dewatering is necessary.	Cu.m	703
	e) Soft Rock	Cu.m	1066
	f)Hard Rock	Cu.m	2212
4	Installation of steel reinforcement in concrete foundation including supply of GETCO Approved M.S. bars, binding wire & their cutting, bending, shaping and laying in position as per drawing.	MT	99900
5	Stub-setting <b>with prop or template</b> including back-filling of excess soil and levelling of site is to be done as per inst 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	8206
			(up to 6 Meter extn) 9918
			(up to 9 to 25 Meter extension)
6	Concreting of foundation by M20/M15/M25 mixture including shoring, shuttering, dewatering etc. for normal tower / tower with extension up to 25mtr. After completion of Concrete work, curring ( watering to Concrete) is to be done as per inst EIC. (Rates are with cement)	Cu.m	12246 (M20 mixture)
			10306 (M15 mixture)
			15153 (M25 mixture)
7	Grounding of towers with pipe type earthing including excavation and back filling and supply of all materials like 32mm dia heavy duty 3 mtr. long G.I. Pipe & 50 x 6 mm G.I. flat, bolt-nuts, with GI spring washer salt, coal/charcoal etc. as per drawing and as per inst of EIC.	Set.	8985

8	Erection of super structure up to 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 inst 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	10076
9	Same as above but erection of 9/12/15/18/21/25 Mtr. extension with tower.	MT	12694
10	Fixing of Anti-climbing devices including supply of barbed wire as per drawing and as per inst of EIC.		
	a) 66KV	Loc.	2596
	b) 132KV	Loc.	3011
	c) 220KV	Loc.	3589
	d)400KV	Loc	4562
11	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 inst of EIC.		
	a) S/C	Loc.	1690
	b) D/C	Loc.	3379
	c) M/C	Loc.	6758
12	Tack welding of nuts up to 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 inst of EIC.	Per Bolt.	15
13	Dismantling of any type of tower including transportation & crediting to nearest GETCO's store as per instruction of Engineer in-charge.	Per MT	8434
14	Cutting of stubs of old tower to be dismantled including breaking of chimney/cutting of RCC up to 450mm below ground level & crediting stubs & steel bars to GEB Store including back-filling & levelling of site as per inst of EIC.	Per tower	12618
15	Work of Painting of name of line, location number, colour code of desired length and telephone number on tower leg with letter of Gujarati language using ISI marked paint as per inst EIC including supply of paints and other require materials.		
	All four legs-For 2 Nos of Line M/C	per loc	862
	All four legs – for 2 Nos of Line D/C	per loc	431
	two legs –For 1 Nos of Line S/C	per loc	216
<b>(Part-B)</b>			
16	Stringing of ONE ground wire including laying, jointing, tensioning, clamping with accessories, Jumpering, & sister wire, vibration damper earth bond etc.& including tree cutting as per inst of EIC.- 66/132/220KV	RKM	16843
17	Stringing of ACSR/ AAAC 3 (Three) conductors for single 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 inst of EIC.		
	66kV Dog Conductor	RKM	39916
	66kV Panther / 132kV Panther	RKM	56464

	220kV Zebra Conductor-AL 59	RKM	79265
18	-do- but for Stringing of ACSR/ AAAC 6 (SIX) conductors for double circuit.		
	66kV Dog Conductor	RKM	79832
	66kV Panther / 132kV Panther	RKM	112928
	220kV Zebra Conductor	RKM	158530
19	Dismantling of conductors and line materials of existing line with : 3-conductors		
	66kV Dog Conductor	RKM	24177
	66kV Panther / 132kV Panther	RKM	33506
	220kV Zebra Conductor	RKM	46149
20	Dismantling of conductors and line materials of existing line with : 6-conductors		
	66kV Dog Conductor	RKM	48354
	66kV Panther / 132kV Panther	RKM	67012
	220kV Zebra Conductor	RKM	92298
21	Dismantling of conductors and line materials of existing line with : :Single earth wire	RKM	9985
22	Termination and connection for making LOOP-IN-LOOP-OUT arrangement with existing line during specified outage.(Cold Condition)		
	66kV Dog Conductor	Job work.	79171
	66kV Panther / 132kV Panther	Job work.	117351
	220kV Zebra Conductor	Job work.	161153
23	Complete Installation of OPGW cable (24/48 fibres) including laying, providing required hardware's, in line splices to be encased in Fibre Optic Splice Enclosures, Laying and termination of a fibre optic approach cable required to connect Overhead Fibber 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		
	66kV Panther / 132kV Panther	KM	97193
	220kV Zebra Conductor-AL 59	KM	97193
24	Dismantling of OPGW cable with require accessories and credit to GETCO Store or Sub station as per instruction of EIC (24/48 fibres)		
	66kV Panther / 132kV Panther	KM	48597
	220kV Zebra Conductor-AL 59	KM	48597
25	Link up of OPGW Cable including all related activities as per inst.of EIC.		
	66kV Panther / 132kV Panther	KM	8850
	220kV Zebra Conductor-AL 59	KM	8850
26	Work of attending the fault of Broken conductor / conductors and/or Snapping from tower only at any one location (Tens on to Tension Location), in COLD LINE CONDITION including mobilization of man power at site. Required materials i.e., H/W and Conductor will be provided by GETCO at free of cost. Also, materials to be taken from the GETCO's store and after using of the materials, balanced and old dismantled materials to be credited to the GETCO's store.	Job Work	

	- Tower Line-Cold Line		
	66kV Dog Conductor		47644
	66kV Panther / 132kV Panther		69509
	220kV Zebra Conductor		95616
27	Work of attending the fault of Broken conductor / conductors and/or Snapping from H-frame only at any one location (Tens on to Tension Location), in COLD LINE CONDITION including mobilization of man power at site. Required materials i.e., H/W and Conductor will be provided by GETCO at free of cost. Also, materials to be taken from the GETCO's store and after using of the materials, balanced and old dismantled materials to be credited to the GETCO's store. - H-Frame-Cold Line	Job Work	
	66kV Dog Conductor		30536
	66kV Panther / 132kV Panther		37104
28	Work of attending the fault of Broken conductor / conductors and/or Snapping from tower only at any one location (Tens on to Tension Location), in COLD LINE CONDITION including mobilization of man power at site. Required materials i.e., H/W and Conductor will be provided by GETCO at free of cost. Also, materials to be taken from the GETCO's store and after using of the materials, balanced and old dismantled materials to be credited to the GETCO's store. - Tower Line		
	66kV Dog Conductor		63322
	66kV Panther / 132kV Panther		87569
	<b>220kV Zebra Conductor</b>		109335
<b>PART-C</b>			
29	Erection of 'H' frame structure with channels, bracings, clamps etc. for 'A'/B' type location including excavation in Normal/ black cotton soil (Dry / Wet / submerged) and back filling of earth, ramming and with supply of bolts, nuts and painting of the complete structure including required tree cutting. Before erection, one coat of good quality primer must be applied to the complete structure and black Japan paint of standard make should be applied up to 3 mtr. from bottom. After erection, two coats of aluminium paint of Asian / Burger / Nerolac make shall be applied to the complete structure.	No.	11771
30	Original survey with route alignment (3 alternative route) on survey of India Topo sheets, detailed survey, preparation and submission of route alignment with modern techniques in 6 copies & providing pre-cast permanent concrete blocks/stones of 600mm x 300mm x 100mm on each deviation point on entire line with chain age painted on it.	KM	5247
31	As per Item Sr. No. 29, but for angular location up to 60 Degree deviation / dead end – 'C' type.	No.	15673
32	Erection of 105 Lbs./ Rail or RSJ 150 x 150 mm size single pole as per work indicated in Item Sr. No. 29	No.	4127
33	Stringing of ACSR/AAAC Three conductors for single circuit including laying, jointing, tensioning, clamping with armour rod, hoisting of insulator string, jumpering, fixing of dampers etc. complete as per specification including required tree cutting with	Route Km.	27071 (For Dog) 36094 (For Panther)

	adequate clearance and safe charging of line and as per inst of EIC.		
34	Grounding of above 'H' frame/single pole structure with pipe type earthing as per drawing including excavation by auguring & back filling & supply of all materials like 32mm dia. medium duty 3 mtr. long GI pipe (B class – Blue mark) & G.I. flat of 50x6mm size including supply of bolt nuts, salt, coal, charcoal etc. as per drawing.	Set.	5084
35	Erection of stay set complete with stay clamp, turn buckle, eye bolt, anchor rod and binding with 7/8 or 7/10 SWG earth wire as per inst of EIC.	Set.	802
36	Concreting of foundation for all the structures, with M15 mix. Including concreting of stay sets with supply of materials like cement of 43 grade, sand, metal etc. with muffing (400 mm Dia x 300 mm Ht. above ground level for all the structures. After completion of concrete work, watering to concrete is to be done as per inst of EIC. rates are inclusive of supply of GETCO approved Cement only.	CU.M.	10306
37	Tack welding of nuts at three places on the nuts diametrically fitted to 'A', 'B' and 'C' TYPE structures and applying red oxide & zinc rich paint on it immediately after tack welding as per inst of EIC..	Per Bolt.	20
38	Transportation of Girder / Rail from GETCO's nearest Store Centre to one end of the line including loading and unloading as per inst of EIC.		
i)	Up to 70 KMs(up to 6MT) LumSum	Job/Lot	16848
ii)	Up to 70KV (Beyond 6MT)-Proportionate	Per MT	2808
iii)	Beyond 70 KMs	per MT/KM	22
39	Conversion of 'A' type 'H' frame structure into 'B' type 'H' frame structure in existing line by replacing necessary channels etc. and termination and restringing of Dog or Panther 3 conductors for making LILLO arrangement with existing line or for changeover of line during availability of specified outage only.	Job work (Per Loc)	34042
40	Dismantling of 'A' & 'B' type 'H' frame structure by breaking of muffing up to 450 mm depth from ground level and cutting the girders from 450 mm depth from ground level by gas cutting & crediting the material to Const. store as instructed by Engineer in-charge.	Loc.	7656
41	- do – but for 'C' type structure.	Loc.	11055
42	Dismantling of all three conductors and line materials such as insulators, hardware's etc. and crediting to the GETCO's Store or Substation including transportation as per instruction of Engineer in-charge. with submission of pole wise inventory for preparing C.R.note	Route Km.	16136
43	Providing & fixing of NP with name of line / DP including supply of bolts & nuts and tack welding/ punching as per drawings.	Loc.	1195
44	Providing ft fixing of ACD on Single Pole girders as per drawing and as per instruction of EIC.	Loc.	422
45	Providing ft fixing of ACD on A / B Type Frame as per drawing and as per instruction of EIC.	Loc	843

46	Providing & fixing of ACD on C Type H-Frame as per drawing and as per inst of EIC.	Loc	1265
47	Work of Painting of name of line, location number, colour code of desired length and telephone number on H-Frame. (2 legs) with letter of Gujarati language using ISI marked paint as per inst of EIC including supply of paint and other require materials.	per loc	216
48	P&F of fiber type Bird Guard fabricated from 2mm thick GI sheet on each location (3 nos Per Loc) as per drawing and instruction of E.I.C.	per loc	150
49	Providing & Fixing of Mud Guard on H Frame str & Tower str on three phase conductor as per drawing and instruction of EIC	per loc	500

**Remarks- Quantities are considered tentative, Once the exact fault is identified, a separate sub-work order will be issue for specific quantities and costs.**

**Notes-**

- (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.
- (5) Tower dismantling work should be carried out with help of using rust free spray and without cutting of any members / leg / stub and as per inst. of EIC, where applicable.
- (6) While crediting of material, agency has to submit the original gate pass copy / CR copy with required documents as per instruction of EIC.
- (7) 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.
- (8) 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.
- (9) All 'H' frame A, B, C type structures, tension guys are to be fully concreted and wind guys shall be concreted for 0.6 mtr. height only.
- (10) In case of excavation in SOFT / HARD ROCK for Item Sr. No. 29, 31, 32 & 35, additional rate of Rs. 1021/- & 2118/- per CMT respectively shall be paid separately.
- (11) Except item No 39, all the rates indicated above includes taking delivery of all stringing material from GETCO's store at destination & keeping them in safe custody & transporting the same to erection site. Similarly the rates of erection at Sr.No. 29, 31, & 32 above includes transportation of material from one end of line to erection site.

**CERTIFICATE**

I we am / are willing to carry out the above work at \_\_\_\_\_ % above / below (percentage)  
should be written in figures and words. \_\_\_\_\_ Percentage above /  
below the tender amount work out Rs. \_\_\_\_\_ Rupees in  
words \_\_\_\_\_

Signature of Contractor,