GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
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(CIN: U40100GJ1999SGC036018)

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Price Bid

(Submitted through n-Procure (n code) only)

GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED

Construction Division Limbdi

Surendranagar Circle

Schedule - B

Name of Work : Erection, testing & commissioning of Pro.66KV S/C Ranpur S/S to Moti Vavdi S/S Line on D/C Tower with ACSR Panther Conductor having route length of 10.09Km.

Sr. No.	Item Discription	Unit	Qty	Rate	Amount
1	**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. Note : The survey report will be submit with sign and stamp of the surveyor agency and engineer in charge.	KM	11	10222.00	112442.00
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	11	9277.00	102047.00

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	980	307.00	300860.00
	b. **Black cotton soil either dry or Wet**	Cu.m	1680	614.00	1031520.00
	c. **Normal submerged / marine soil** where dewatering is necessary.	Cu.m	0	484.00	0.00
	d. **Black Cotton submerged / marine soil** where dewatering is necessary.	Cu.m	0	703.00	0.00
	e. **Soft Rock**	Cu.m	70	1066.00	74620.00
	f. **Hard Rock**	Cu.m	30	2212.00	66360.00
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	8	99900.00	799200.00
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) - **Upto 6 Mtr Extension**	MT	31	8206.00	254386.00
6	-do- but for **Upto 9 to 25 mtr Extension**	MT	0	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, curring (watering to concerte) is to be done as per instruction of EIC. - **M20 Mixture** (Rates are inclusive of supply of GETCO approved Cement only.)	Cu.m	236	12246.00	2890056.00
8	-do- but for **M15 mixture**	Cu.m	5	10306.00	51530.00
9	**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	set	51	8985.00	458235.00

	washer, salt, charcoal etc. as per drawing and as per instruction of EIC.				
10	**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	0	15756.00	0.00
11	**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	148	10076.00	1491248.00
12	Same as above but **erection of 9/12/15/18/21/25 meter extension** with tower.	MT	0	12694.00	0.00
13	**Fixing of Anti-climbing devices** including supply of barbed wire as per drawing and as per instruction of EIC.				
	a. **66KV**	Loc	51	2596.00	132396.00
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.				
	a. S/C	Loc	51	1690.00	86190.00
	b. D/C	Loc	0	3379.00	0.00
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	22000	15.00	330000.00
16	**Dismantling of any type of tower** including transportation & crediting to nearest GETCO's store or substation as per instruction of EIC.	Per MT	0	8434.00	0.00
17	**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	0	12618.00	0.00

18	**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.	0	431.00	0.00
	c. **Two legs - For 1 Nos. of Line (S/C)**	Per Loc.	51	216.00	11016.00
19	**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 instruction of EIC.	RKM	11	16843.00	185273.00
20	**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 instruction of EIC - **66KV Panther / AL-59 Conductor**	RKM	11	56464.00	621104.00
21	-do- but for **Stringing of ACSR/ AAAC 6 (Six) conductors** for double circuit - **66KV Panther / AL-59 Conductor**	RKM	0	112928.00	0.00
22	**Termination and connection for making LOOP-IN-LOOP-OUT arrangement** with existing line during specified outage including restringing of existing conductors OR dismantalling / 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 dismentalled materials to be credited to near by GETCO's store or sub station as per inst. of EIC.	Job Work	0	117351.00	0.00
23	**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 iin 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	97193.00	0.00
24	**Link up of OPGW Cable** including all related activities as per inst. Of EIC.	KM	0	8850.00	0.00

25	T**o make necessary arrangements for fixing of 3 Nos. of through (parallel / bypass) jumper** provide at any location of newly erected / existing line of (66kV / 132kV / 220kV) as per instruction of EIC. Firewadge and conductor for the same work will be provided by GETCO at free of cost, but agency has to take it from GETCO's store and credit back the balance materials. Only Fire wadge connector will be fixed by special authorized person with using of firewadge fixing gun only and same will be arranged by GETCO. **- D/C Line Only**	Job Work	0	9354.00	0.00
26	**Work for removing of 3 Nos. of through (parallel / bypass) jumper** provided at any location of newly erected / existing line of (66kV / 132kV / 220kV) along with fixing of main line jumper on tension tower as per instruction of EIC. Agency has to credit back the dismantled firewadge and conductor for the same work to the GETCO's store or sub-station as per instruction of the EIC. **- D/C Line Only**	Job Work	0	5094.00	0.00
27	**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 and leveling of the land as per inst. of EIC. Also 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 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.	2	11771.00	23542.00
28	A**s per Item Sr. No. 1,** but for angular location upto 60 Degree deviation / dead end – **'C' type.**	No.	0	15673.00	0.00
29	**Erection of 105 Lbs./ Rail or RSJ 150 x 150 mm size single pole** as per work indicated in Item Sr. No. 1.	No.	0	4127.00	0.00
30	**Stringing of ACSR/AAAC - 3 (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 adequate clearance and safe charging of Line and as per instruction of EIC.	RKM	0.1	36094.00	3609.40

31	**Grounding of above 'H' frame/single pole structure with pipe type earthing** as per drawing including excavation by augering & back filling & supply of all materials like 32mm dia. heavy duty 3 mtr. long GI pipe (B-Class) & G.I. flat of 50x6mm size including supply of bolt nuts, salt, coal, charcoal etc. as per drawing. and as per instruction of EIC.	Set	2	5084.00	10168.00
32	**Erection of stay set** complete including excavation with stay clamp, turn buckle, eye bolt, anchor rod and binding with 7/8 or 7/10 SWG earth wire, as per instruction of EIC.	Set	12	802.00	9624.00
33	**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 concerte is to be done as per instruction of EIC. Rates are inclusive of supply of GETCO approved Cement only.	Cu.m	10	10306.00	103060.00
34	**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 pre instruction of EIC.	Per Bolt	32	20.00	640.00
35	**Transportation of Girder / Rail** from GETCO's nearest / any Store Centre to one end of the line including loading and unloading and as per instruction of EIC.				
	i. **up to 70 KMs (Upto 6 MT) - Lumsum** (To be executed / considered for a particular Job / Lot while weight is not increasing 6 MT per Trip)	Job / Lot	1	16848.00	16848.00
	ii. upto 70KMs (Beyond 6 MT) - proportionate	Per MT	0	2808.00	0.00
	iii. Beyond 70KMs.	per MT/KM	0	22.00	0.00
36	**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 LILO arrangement with existing line or for change over of line during availability of specified outage only. Supply of require size GI N/B will be in the scope of contractor. Item also include transportation of new B type channel from store / Substation as per availability to site and to be creadit the dismental old channel / any hardware and other materials if	Job work (Per Loc)	0	34042.00	0.00

	replaced to TR dept with necessary inventory as per instruction of EIC.				
37	**Dismantling of 'A' & 'B' type 'H' frame structure** by breaking of muffing upto 450 mm depth from ground level and cutting the girders from 450 mm depth from ground level by gas cutting & crediting the material to GETCO Store or Substation including transportation as instructed by Engineer in-charge.	Loc.	0	7656.00	0.00
38	**Providing & fixing of NP with name of line / DP in**cluding supply of bolts & nuts and tack welding/ punching as per drawings.	Loc.	2	1195.00	2390.00
39	**Providing & fixing of ACD on Single Pole girders** as per drawing and as per instruction of EIC.	Loc.	0	422.00	0.00
40	**Providing & fixing of ACD on A / B Type H-Frame** as per drawing and as per instruction of EIC.	Loc.	2	843.00	1686.00
41	**Providing & fixing of ACD on C Type H - Frame** as per drawing and as per instruction of EIC.	Loc.	0	1265.00	0.00
42	**Work of Painting of Line name**, Location No., two coat Painting Color code of desired length and telephone no. **on Single Pole girder** with letter of Gujarati language using ISI marked Paint as per instruction of EIC including Supply of paints and other require materials.	Per Loc.	0	108.00	0.00
43	**Work of Painting of Line name,** Location No., two coat Painting Color code of desired length and telephone no. **on H-Frame (2 Leg)** with letter of Gujarati language using ISI marked Paint as per instruction of EIC including Supply of paints and other require materials.	Per Loc.	2	216.00	432.00
				Sub-Total	**91,70,482.40**
				GST 18%	**16,50,686.83**
				Grand-Total	**1,08,21,169.23**

NOTE: -Welfare Cess shall be reimbursed on production of proof of such payments made by the contractor to the appropriate department. GST rate will be applicable as per rules.

All the work related to the transmission line like detailed survey, check survey, tower/DP foundations, material testing, tower/DP erection, stringing, final testing, etc should be carried out as per GETCO'S standard FQP for transmission line.
Successful bidder has to appoint site engineer to maintain site register and FQP as per ISO
All work should be done according to ISO & FQP and all required documents including filled FQP, testing results, etc should be submitted while handing over the line
While calculating the weight of stub-setting, the weight of stub, cleat & templates shall also be added in stub weight.
Red oxide & zinc rich paint shall be applied after tack welding of nuts.
The above rates are with supply of cement by the contractor.
The rates of erection of 'H' frame structures are 'per NO' irrespective of weight & type of steel sections provided by the GETCO to be erected.
All 'H' frame A, B, C type structures, tensions guys are to be fully concreted and wind guys shall be concreted for 0.6 mtr. Height only.

CERTIFICATE

I/we am / are ready to carry out the above work …….. % above/below, (In word …….. % above/ below) of schedule rate of GETCO