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

TENDER SPECIFICATIONS
FOR

Tender No. ACE(P&C)/Contract/E-486/TL/220kV/S&E
Supply, Erection, Testing & Commissioning of 220kV D/C overhead line with ACSR Zebra conductor with 48F OPGW cable on M/C and D/C monopole from the proposed Khoraj (GETCO) substation to the switchyard of M/s Maruti Suzuki India Limited having route length of 2.038rkm under deposit work Option – 1A under Construction Division Limbdi of Surendranagar circle.

: TENDER SPECIFICATION NO :

PRICE BID

PART-III
For Reference Only

SEAL & SIGNATURE
OF BIDDER

Bidding Schedule

Supply, Erection, Testing & Commissioning of 220kV D/C overhead line with ACSR Zebra conductor with 48F OPGW cable on M/C and D/C monopole from the proposed Khoraj (GETCO) substation to the switchyard of M/s Maruti Suzuki India Limited having route length of 2.038rkm under deposit work Option – 1A under Construction Division Limbdi of Surendranagar circle.

Sr. No.	Description of Works - SAC Code 9954	Estimated Cost in Rs.
PART-A	Supply of Materials	18,89,302.28
PART-B SCHEDULE-01	Erection of line	10,49,113.01
	TOTAL COST WITHOUT TAXES	**29,38,415.29**
	Service of "Works Contracts" GST @ 18%	5,28,914.75
	TOTAL END COST	**34,67,330.05**

I / we confirm that our above quoted rates are ON firm basis; except supply of 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, 2017and 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 relavant 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

Estimated Cost - SUPPLY

PART-A

Supply, Erection, Testing & Commissioning of 220kV D/C overhead line with ACSR Zebra conductor with 48F OPGW cable on M/C and D/C monopole from the proposed Khoraj (GETCO) substation to the switchyard of M/s Maruti Suzuki India Limited having route length of 2.038rkm under deposit work Option – 1A under Construction Division Limbdi of Surendranagar circle.

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 Ex-works 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	220kV M/C Monopole having 2 peaks for OPGW (including designing, Non-Destructive & Proto testing and supply)								
A.1.1	Steel Part (MS) **(Note - Qty. to be decided depending on design by bidder)**		MT	0	1,45,397.12	0.00	0.00	1,45,397.12	-
A.1.2	Bolt - Nuts **(Note - Qty. to be decided depending on design by bidder)**		MT	0	1,73,465.61	0.00	0.00	1,73,465.61	-
									-
A.2	**220kV**								-
A.2a	ACSR Zebra conductor		kM	0	4,35,149.00	4,285.00	1,837.00	4,41,271.00	-
									-
A.3	**Silicone Rubber insulators - 220kV**								-
A.3.1	220kV,90kN - Suspension SRI		Nos.	49	4,378.00	86.00	37.00	4,501.00	2,20,549.00
A.3.2	220kV,120kN - Tension SRI		Nos.	98	4,591.00	86.00	37.00	4,714.00	4,61,972.00
									-
A.4	**Insulator hardware for ACSR Zebra conductor**								-
A.4.1	Single suspension		Nos.	36	2,269.00	48.00	21.00	2,338.00	84,168.00
A.4.2	Double suspension		Nos.	6	4,483.00	95.00	41.00	4,619.00	27,714.00
A.4.3	Single Tension		Nos.	72	2,773.00	49.00	21.00	2,843.00	2,04,696.00
A.4.4	Double tension		Nos.	12	5,998.00	136.00	58.00	6,192.00	74,304.00
A.4.5	P.A rod		Nos.	36	1,864.00	27.00	11.00	1,902.00	68,472.00
A.4.6	Mid span joint		Nos.	10	1,035.00	15.00	7.00	1,057.00	10,570.00
A.4.7	Vibration damper		Nos.	216	1,037.00	22.00	9.00	1,068.00	2,30,688.00
A.4.8	Repair sleeve		Nos.	1	452.00	7.00	3.00	462.00	462.00
									-
									-
A.5	**OPGW - 48 Fibre (220kV)**								-
A.5.1	48 Fibre (DWSM) OPGW fibre Optic cable		km	2.038	1,95,533.00	2,385.00	1,022.00	1,98,940.00	4,05,439.72

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 Ex-works Rate	Unit Freight, Packing & Forwarding charges	Unit Insurance Charges in Rs.	FOR Unit Rate in Rs.	FOR Total Cost (Excl. GST) in Rs.
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 (with installation hardware like ties/ clips / cleats, conduits, ducts, supports, fittings, accessories etc). (Any variation in quantities shall be absorbed by contractor)		km	2.038	48,279.00	644.00	276.00	49,199.00	1,00,267.56
	TOTAL COST FOR MATERIALS								**18,89,302.28**
	Service of "Works Contracts" GST @ 18% (SAC								3,40,074.41
	TOTAL COST								**22,29,376.69**

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 Ex-works Rate	Unit Freight, Packing & Forwarding charges	Unit Insurance Charges in Rs.	FOR Unit Rate in Rs.	FOR Total Cost (Excl. GST) in Rs.

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, 2017and 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 only SAC Code and Tax rate for supply of Service Works Contract i.e. 18% is relavant for the purpose of contract since the contract is works contract and any separation in the works is for better management and convenience purpose.
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Estimated Cost - Erection						
PART-B SCHEDULE - 01						
Supply, Erection, Testing & Commissioning of 220kV D/C overhead line with ACSR Zebra conductor with 48F OPGW cable on M/C and D/C monopole from the proposed Khoraj (GETCO) substation to the switchyard of M/s Maruti Suzuki India Limited having route length of 2.038rkm under deposit work Option – 1A under Construction Division Limbdi of Surendranagar circle.						
Length of line: 2.038 Rkm.						
	Erection of line					
S.N.	Description of Supply with Detail Specification of Service Package - Works Contract (SAC Code 9954)	HSN/ SAC code for identification only	Unit	Quantity	Unit Rate in Rs.	Total Cost (Excl. GST) in Rs.
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. **(SOR Part A,**		KM	2.038	10222	20,832.44
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. **(SOR Part A, Item sr no 03)**		KM	2.038	9,277.00	18,906.53
3	Stringing of ACSR Zebra (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. **- For hot line stringing work (Calculated based on SOR Part B1, Item sr no 06(A))**		RKM	1.757	4,19,998.00	7,37,936.49
4	Stringing of ACSR Zebra (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. **- For cold line stringing work (SOR Part B1, Item sr no 4)**		RKM	0.281	1,58,530.00	44,546.93

S.N.	Description of Supply with Detail Specification of Service Package - Works Contract (SAC Code 9954)	HSN/ SAC code for identification only	Unit	Quantity	Unit Rate in Rs.	Total Cost (Excl. GST) in Rs.
5	Complete installation of OPGW cable (48 F) 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 Fibre Optic Cable (OPGW) between the final in line splice enclosure on the gantry/tower and the Fibre Optic Distribution Panel (FODP) to be installed within the building at both the substation ends as per technical specification **(SOR Part B1, Item sr no 15)**		KM	2.038	97,193.00	1,98,079.33
6	Link up of OPGW cable (48 F) including all related activities **(SOR Part B1, Item sr no 16)**		KM	2.038	8,850.00	18,036.30
7	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) **(SOR Part B1, Item sr no 23(b))**		Per Loc.	1.00	431.00	431.00
8	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 - a) All four legs - For 4 Nos. of Line (M/C) **(SOR Part B1, Item sr no 23(a))**		Per Loc.	12.00	862.00	10,344.00
	TOTAL SCHEDULE-01 OF PART-B					10,49,113.01
	Service of "Works Contracts" GST @ 18% (SAC 9954)					1,88,840.34
	TOTAL SCHEDULE-01 INCLUDING GST @18%					12,37,953.35
	Note :					
	1) While calculating the weight of stub-setting, the weight of stub, cleat & templetes 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 cement by the contractor.					
	4) The rate indicated above includes taking delivery of all stringing materials from Board / Contractor store at destination keeping them in safe custody and transporting the same to erection site.					
	NOTE:					
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	3) As no specific SoR item exists for hotline stringing of six-conductor bundle, the rate has been rationally derived from the approved rate of hotline stringing of ACSR Zebra three-conductor bundle under Erection SoR, Part-B1, Item No. 6(A) (up to 5 km), considering the proportionate increase in conductors and associated execution efforts. Calculation is as below; Rate for cold line stringing of 3 nos of ACSR Zebra conductor is 79265Rs/rkm and that for 6 nos of ACSR Zebra conductor is 158530Rs/rkm. Now the rate of hot line stringing for ACSR Zebra condcutor with 3nos of conductor is given as 209999rs/rkm upto 5km in **SoR Sr No. PartB1, Sr No 6(A)**. Hence the proportionally calculated rate of six conductor will be = 6XRs 2,09,999/3 =Rs.4,19,998/rkm.					