



GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
Circle Gondal, Power House Comp, Station Plot, Gondal-360 311.
(CIN: U40100GJ1999SGC036018)
Phone No.(02825) 220121 (O)
Email: setrgondal.getco@gebmil.com
Web site: www.getcogujarat.com



N-Tender No: 121/2026

Tender for Work of Erection of 66KV equipment, structures, earthing, installation, control wiring, yard Lighting, Control-Room Electrification & Supply & installation of furniture and supply and installation of CCTV Camera etc. at Haripar (Kerala) S/S.

Party's Name: _____

Date of Tender: _____



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NAME OF WORK: Work of Erection of 66KV equipment, structures, earthing, installation, control wiring, yard Lighting, Control-Room Electrification & Supply & installation of furniture and supply and installation of CCTV Camera etc. at Haripar (Kerala) S/S.

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Technical Bid

(Documents are to be attached with online tender.
Physical documents to be submitted are tender fee and
EMD only if paid by CASH (up to Rs. 10,000/- only).
Online mode of payment is encouraged)



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Superintending Engineer, Transmission Circle GETCO Gondal invites “On line Tenders” (e-tendering) for the “**Work of Erection of 66KV equipment, structures, earthing, installation, control wiring, yard Lighting, Control-Room Electrification & Supply & installation of furniture and supply and installation of CCTV Camera etc. at Haripar (Kerala) S/S.**” from registered contractors in appropriate class with GETCO/Central/State Government/ Railway/ Semi. Govt. and who has executed similar nature of work successfully as mentioned in Qualification requirement criteria given in the tender document. Bidders should fulfil all the qualification criteria. Otherwise their bids will not be considered & price bid will not be opened. All the bidders should have valid e-tender vender registration.

Tender papers & specifications may be down loaded from web site <https://getco.nprocure.com> (for view, download and online submission) and GUVNL/GETCO websites www.guvnl.com & www.getcogujarat.com (for view & download only). **All tender documents are to be uploaded through online only (mandatory) on (n) procure portal including scanned copy of duly attested Tender fee, EMD and Integrity Pact. Tender fee, EMD (if by CASH up to Rs. 10,000/-only) are to be submitted physically by Registered Post A.D. or Speed Post addressed to**

The Superintending Engineer
Gujarat Energy Transmission Corporation Limited.,
Circle office Gondal
Power House Compound, Station Plot,
Gondal - 360 311 District: Rajkot, Gujarat

“NO COURIER SERVICE OR HAND DELIVERY” will be allowed.

Tender notice No./ Tender No	Name of work	Estimated Cost Rs. (Including GST @ 18% & CWWC @1%)	Time limit	Tender fee Rs. (non-refundable)	EMD Amount Rs.	Appropriate Class
121/2026	Work of Erection of 66KV equipment, structures, earthing, installation, control wiring, yard Lighting, Control-Room Electrification & Supply & installation of furniture and supply and installation of CCTV Camera etc. at Haripar (Kerala) S/S.	3552248.12	03 Month	1180.00 (₹) 1000.00 + CGST @ 9% ₹ 90.00 + SGST @ 9% ₹ 90.00)	40000.00	GETCO registered contractor of any class

1	On line (e-tendering) tender/offer submission last date up to 16:00 hours only (This is mandatory)	12.10.2026
2	Date of opening of technical bid –at 16:30 hrs.	12.10.2026
4	Tentative Date of online opening of price bid	Shall be intimated separately.



IMPORTANT:

1. Bidder has to upload scanned copies of original (Notarized / self-attested copies of original – as specified in tender document) documents with bid and no physical documents to be submitted by bidder.
2. Bidder has to submit the only Tender fee, EMD (by CASH up to Rs 10,000/- only) in sealed cover superscripted with the “Tender for **“Work of Erection of 66KV equipment, structures, earthing, installation, control wiring, yard Lighting, Control-Room Electrification & Supply & installation of furniture and supply and installation of CCTV Camera etc. at Haripar (Kerala) S/S.”** . & tender notice no. 121/2026” (mention the name of work & tender notice no.) on or before due date and time. All such documents should be strictly submitted by RPAD/SPEED POST only. Otherwise, the offer will not be considered and no any further communication in the matter will be entertained.
3. Bidders have to submit Technical bid as well as Price bid in electric format only on above-mentioned website till the date and time shown above. It is required that physical submission of only tender fees, EMD by Cash (up to 10,000/- only) to be done. However, of anywhere in tender documents submission of other than this document physical submission mentioned to be overlooked.
4. The transection slip of payment made by RTGS/NEFT is to be uploaded in N- procure with tender documents.
5. In case short submission of documents with bid and / or clarification if any required from the bidder, the required details / documents may be asked from bidder in physical form.
6. It shall be sole responsibility of the bidder that the uploaded scanned documents (in PDF from) remain legible and should not be password protected.
7. Tender will be evaluated on Data / Details / Documents of the online offer only.
8. It is mandatory for all the bidders to upload their tender documents by on line (E-tendering) in scheduled time.
9. Any deviation found in Data/Details/Documents in on line offer (e-tendering) (Tender document fee, EMD, Vendor Registration, Technical and commercial documents etc.) of bidder, offer of the same bidder will not be considered and no any further communication in the matter will be entertained. Physical copy is for reference only and tender will be evaluated on Data/Details/Documents of the “on line” offer. For any discrepancy between online & physical bid, online bid is considered as final.
10. The bidders are required to fill up all the online appendices (annexure)/forms. This is intended for transparency and speedy evaluation of the bids. Instead of simply confirming/attached in bid/refer physical offer, the bidder shall fill in the particulars against appropriate place in respect of each line appearing in each online annexure.
(In the absence of required details in the online annexure, the purchaser has every right to evaluate the bids accordingly and bidder cannot raise any objection against any point during evaluation.)
11. Bidders are requested to remain in touch with the web site for any amendment/corrigendum or extension of due date etc.
12. No tender shall be accepted/opened in case of receipt after due date and time of tender, irrespective of delay due to postal services or any other reasons and the Corporation shall not assume any responsibility for late receipt of tender.



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13. The Earnest Money Deposit and tender fee will be accepted by RTGS/NEFT or in Cash up to Rs. 10,000/- Tender without EMD and tender fee shall be rejected.
14. Submit completely tender document with seal and signature in all Tender pages with LOA (letter of acceptance) by Lowest-1 bidders.
15. The GETCO reserves the right to award the work to one or more bidders, considering their technical and financial capacity OR to reject any or all tenders or accept any tender without assigning any reason thereof.

Any technical questions, information and clarification that may be required pertaining to this enquiry should be referred to: The Superintending Engineer (TR), Gujarat Energy Transmission Corporation Limited., Circle office Gondal.

GETCO reserves the right to reject any OR all tenders without assigning any reasons thereof.

Yours faithfully,

(P K Varsada)
Superintending Engineer
GETCO Circle Office, Gondal

To view the PDF file please use "Acrobat Reader" software which can be downloaded from 'Adobe' website.

In case bidder needs any difficulty in accessing/submission of on line bid/clarification or if training required for participating in online tender, they can contact the following office:
(n) Procure Cell, (n) code solutions-A division of GNFC Ltd.,
403, GNFC Info tower, S.G. Road,
Bodakdev, Ahmedabad – 380054 (Gujarat)
Toll Free: 1-800-233-1010 (Ext. 501, 512, 516, 517, 525),
Phone No. 079-26857315 / 316 / 317,
Fax: 079-26857321 / 40007533, Email: nprocure@gnvfc.net



Special instruction if tender Fee & EMD to be paid by NEFT/RTGS

1. The Tender fee should be submit by RTGS/NEFT/online.
2. The EMD fee amount is should be paid by either by Cash up to Rs. 10,000/- otherwise it should be paid by RTGS/NEFT/online only.
3. In case of payment through RTGS/NEFT/online Bidder has to provide all below details by email on the same date of payment So that receipt can be generated.
 - A. The transection slip
 - B. Copy of Bank Statement (appeared Transition)
 - C. Following details should be submitted on party's letter pad

Sr. No	Required Details
1	Name & Address of the bidder
2	Bidder GST No
3	Tender No - 121/2026
4	Due date of tender-
5	Mode of Transfer
6	Ref. ID with Bank Details (UTR number)
7	Paid Amount Tender Fee-Rs.
8	Paid Amount EMD- Rs.

D. Bidder has to mail above details to

- [1] cashier.gondalcircle@gebmail.com
- [2] supdtgdl.getco@gebmail.com,
- [3] detech1.cogondal.getco@gebmail.com

4. GETCO Beneficiary Bank detail is as under

Sr.	Particulars	Requisite Details
1	Name of Account Holder	GUJARAT ENERGY TRANS CORPO LTD
2	Account No.	66000402915
3	Name of Bank	STATE BANK OF INDIA
4	Branch Code	60073
5	Address of Bank	M G ROAD, GONDAL
6	IFSC Code	SBIN0060073
7	PAN No	AABCG4029R
8	TAN No	RKTG00914E
9	GST No	24AABCG4029R2ZC

Note: Please Mention Tender number during Online Transaction of Tender fee and EMD



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Annexure-I

Details of the Firm

Name of the Firm

A

1 Address of registered office

2 Contact personnel

3 Designation

4 Residential Address

5 Phone No.

Office

Residential

6 Fax No.

7 Telegraphic code

8 E-mail address

B

1 Address of WORK

2 Contact personnel

3 Designation

4 Residential Address

5 Phone No.

Office

Residential

6 Fax No.

7 Telegraphic code

8 E-mail address



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Annexure-II

Details of experience in last two years from the due date of tender

Sr. No.	Name of s/s	Order reference no. & Date	Order value	Nos. of sub-stations/ feeder bays	Due date of completion	Date of completion	Order fully executed Yes/No	Status if order under execution
A	Gujarat Energy Transmission Corporation Ltd.							
1								
2								
3								
4								
5								
B	Other state electricity board							
1								
2								
3								
4								
5								
C	Private Firms							
1								
2								
3								
4								
5								

Annexure-III

List of work completion certificate submitted with technical bid

Sr. No.	Name of work	Name of the authority by whom the work completion certificate issued	Reference No. & Date
1			
2			
3			
4			
5			



Technical Qualification requirement

The bidder should satisfy following minimum technical requirements....

1. *The bidder shall be registered contractor of GETCO.*
2. *Bidder shall have executed minimum 01 no. of 66/11 kV sub-station with State or Central Transmission Utility or major industries OR 03 nos. of 66 kV bays i.e. Transformer/Feeder bays at same or different locations. Sub-stations include minimum two nos. of feeder bays, one no. of transformer bay.*

Experience of sub-order shall NOT be considered.

(Copy of W.O including Schedule-B + Work completion certificate duly signed by concern EE(Const)/EE(TR)

3. *Electrical contractor's license with latest validation*

NOTE: *Along with above technical requirement, bidder should submit,*

1. *Annexure-14 in company letter pad.*
2. *A/T Acceptance letter in company's letter pad.*
3. *Application for refund of EMD in company letter pad.*

Financial Qualification requirement:

1. *Payment of Tender fee and EMD*
2. *Copy of GST Registration.*
3. *Copy of PAN Card*
4. *Latest Bank Solvency Certificate of a sum of minimum 20% of Bid Value.*
5. *Details of partners/ Directors of the Firm/Company. Partnership Deed if applicable.*
6. *Copy of Notarized Power of Attorney as the case may be.*

HR Qualification requirement:

1. *Copy of PF Registration*

Note: *Above technical criteria is for technical scrutiny after opening the technical bid. However, the GETCO reserves the right to award the work to one or more bidders, considering their technical and financial capacity OR to reject any or all tenders or accept any tender without assigning any reason thereof.*

Submit all Qualification required documents online only, no any shortfall documents will demand by this office. Evaluation will be done on bases of online submission of documents only. In Submitted Documents if any Query Arises, Clarification will be Demanded. In case of shortfall documents, disqualified the bidder without assigning any reason thereof



Scope of Work

- 1** The Scope of the proposal shall be on the basis of a single Bidder's responsibility, completely covering all the services specified under the accompanying Technical Specifications.
- 2** The Bidder shall complete all the schedules & annexure in the Bid Proposal Sheets, technical Data Sheets and specified elsewhere.
- 3** The scope of work is "**Work of Erection of 66KV equipment, structures, earthing, installation, control wiring, yard Lighting, Control-Room Electrification & Supply & installation of furniture and supply and installation of CCTV Camera etc. at Haripar (Kerala) S/S.**" as per standard specification and standard practice of GETCO and as per EIC.
- 4** The above work shall be done as per GETCO's approved drawing/layout.
- 5** Necessary field quality plan of GETCO shall be implemented and necessary documentation shall also be maintained as per GETCO's norms and instruction of EIC. If required field quality plan shall be available at field offices.
- 6** During the work of erection of feeder bay/transformer bay safety check list shall be followed. Necessary check list will be available at our field office.
- 7** **Successful bidder has to appoint site Engineer to maintained site register & FQP as per ISO.**
- 8** **All work should be done accordingly to ISO & FQP and all require documents including Filled FQP, testing results etc. should be submitted while handing over the completed work.**
- 9** **The quantity mentioned in price bid is tentative and may be vary in actual work execution.**
- 10** **Successful bidder has to purchase brought out items as per site requirement & instruction of EIC only and not as per estimated quantity**
- 11** **To achieve the target given by the competent authority/GOG, successful bidder has to start & execute the work as per availability of material at GETCO's store & progress of civil work. It may be piecemeal manner. No any ideal charges will be paid if work front is not clear due to civil work/non availability of material. Successful bidder has to claim only time limit extension for such type of cases if arises with detailed justification along with documentary proof.**
- 12** **Successful bidder has to make necessary arrangement regarding any pandemic related precautionary measures issued by Govt/GUVNL/GETCO. No any extra charges will be paid.**
- 13** **Successful bidder has to provide security from date of commencement to forward charge/back charged substation and upto 100% electrical work completion.**
- 14** **Successful bidder has to execute 11Kv Cable termination box related work in presence of project as well as transmission supervisor.**
- 15** **Successful bidder has to utilize 11Kv cable kit provided by OEM along with panel board. Required lugs will be provided by GETCO in case of any change in cable size.**
- 16** **Successful bidder has to credit empty steel drum of cable and conductor to GETCO's Store.**



Safety Clause

1. The Contractor shall follow and comply with all GETCO Safety Rules, relevant provisions of applicable laws pertaining to the safety of workmen, employees, plant and equipment as may be prescribed from time to time without any demur, protest or contest or reservations. In case of any discrepancy between statutory requirement and GETCO Safety Rules referred above, the latter shall be binding on the Contractor unless the statutory provisions are more stringent.

1. In case if any safety related fatal Elect. / Mech. accident occurred to any employee of agency or outsider due to negligence or non-compliance of GETCO safety norms then in addition to the compensation and liability as per statutory requirement, contractor / agency shall be penalized as under:

Sr. No	Amount of Contract in Rs.	Penalty amount per person
1	Up to → 1 Lac	Rs.5000/- plus GST as applicable
2	Above 1 Lac to → 10 Lacs	Rs.25000/- plus GST as applicable
3	10 to --→ 100 Lacs	Rs.100,000/- plus GST as applicable
4	> 100 Lacs	1.0 % plus GST as applicable

2. **Reporting: -**

1. The contractor shall inform concerned Ex. Engineer Const/TR in writing within 24 hours of fatal/Non-fatal accident occurred to human being.
2. The GETCO investigating officer findings in to accident shall be final and binding to the contractor /Agency.

3. **Safety Requirement:**

- i) Kick off Meeting exclusively for safety shall be done in each contract in presence of contractor's site in charge and supervisor. Safety document shall be handed over and vital safety norms and key points of safety related to project shall be explained and recorded for commitment by erection contractor. Such records are mandatory for clearing first erection bill.
- ii) During site visit by GETCO official of Executive Engineer and above rank, the following checks during execution of work shall be covered.
 - I. Safety equipment available and utilize.
 - (a) Helmet.
 - (b) Safety belt.
 - (c) Safety shoes.
 - (d) Live line Voltage detector
 - II. Safety procedure adopted.
 - (a) Permit to work
 - (b) Earthing at the place of work.
 - (c) Adequate supervision.
 - III. T & P physical Check. (Healthiness and Quality)
 - (a) P. P. rope.
 - (b) Wire rope and sling.
 - (c) Earthing rod
 - IV. If above-mentioned safety requirements found violated in any of the above three conditions shall attract penalty of Rs.1000/-per occasion. (Max.Rs.3000/--for violation of three conditions)**
 - V. During subsequent visit, if violation is found, then double penalty shall be deducted from the bill of the Contractor/Agency.**

4.All the guidelines/instructions/circulars issued by Government / GUVNL/GETCO time to time regarding precautions to be taken while working at site due to COVID-19 Pandemic to be strictly followed



WORK & SAFETY REGULATIONS

1. The contractor shall ensure proper safety of all the workmen, materials, equipment & plant & belonging to him or to GETCO or to others, working at the site. The contractor shall also be responsible for provision of all safety notices and safety equipment required both by the relevant legislations and Engineer, as he may deem necessary.
2. Contractor has to provide ISI marked ELCB / MCB having sufficient capacity of standard make at point of supply.
3. All equipment used in construction and erection by contractor shall meet Indian/International Standards and where such standards do not exist, the contractor shall ensure these to be absolutely safe. All equipment shall be strictly operated and maintained by the contractor in accordance with manufacturer's operation manual and safety instructions and as per guidelines/ rules of GETCO in this regard.
4. Periodical examinations and all tests for all lifting/ hoisting equipment & tackles shall be carried – out in accordance with the relevant provisions of Factories Act 1948, Indian Electricity Act 1910 and associated Laws/Rules in force from time to time. A register of such examinations and tests shall be properly maintained by the contractor and will be promptly produces as and when desired by Engineer or by the person authorized.
5. The contractor shall provide suitable safety equipment of prescribed standard to all employees and workmen according to the need.
6. The contractor shall provide safe working conditions to all workmen and employees at the site including safe means of access, railings, stairs, ladders, scaffoldings etc. the scaffoldings shall be erected under the control and supervision of an experienced and competent person. The contractor only shall use good and standard quality of material.
7. The contractor shall not interfere or disturb electric fuses, wiring and other electrical equipment belonging to the owner / other contractors under any circumstances, whatsoever, unless expressly permitted in writing to handle such fuses, wiring or electrical equipment.
8. Before the contractor connects any electrical appliances to any plug or socket belonging to the other contractor or owner, he shall:
 - a. Satisfy the Engineer that the appliance is in good working condition;
 - b. Inform the Engineer of the max. current rating & voltage of the appliances;
 - c. Obtain permission of the Engineer detailing the sockets to which the appliances may be connected.
9. The Engineer will not grant permission to connect until he is satisfied that;
 - a. The appliance is in good condition and is fitted with suitable plug
 - b. The appliance is fitted with a suitable cable having two earth conductors, ones of which shall be an earthed metal sheath surrounding the cores.
10. No electric cable in use by the contractor/ Owner will be disturbed without prior permission. No weight of any description will be imposed on any cable and no ladder or similar equipment will rest against or attached to it.
11. No repair work shall be carried out on any live equipment. The equipment must be declared safe by the Engineer and a permit to work shall be issued by the Engineer before any repair work is carried out by the contractor. While working on electric lines/ equipment, whether live or dead, suitable type and sufficiently quantity of tools will have to be provided by the contractor to electricians/ workmen/ officers.
12. In case any accident occurs during the construction/ erection or other associated activities undertaken by the contractor thereby causing any minor or major fatal injury to his employees due to any reason, whatsoever, it shall be the responsibility of the contractor provide medical facility / treatment & to promptly inform the same to the Engineer in prescribed form and to also to all the authorities envisaged under the applicable laws.



13. The Engineer shall have the right at his sole discretion to stop the work, if in his opinion the work is being carried out in such a way that it may cause accidents and endanger the safety of the persons and/or property and/or equipment. In such cases, the contractor shall be informed in writing about the nature of hazards and possible injury/ accident and he shall comply to remove shortcomings promptly. The contractor after stopping the specific work can, if felt necessary, appeal against the order of stoppage of work to the Engineer within 3 days of such stoppage of work and decision of the Engineer in this respect shall be conclusive and binding on the contractor.
14. The contractor shall not be entitled for any damages/ compensation for stoppage of work due to safety reasons and the period of such stoppage of work will not be taken as an extension of time for completion of work and will not be the ground for waiver of levy of liquidated damages.
15. it is mandatory for the contractor to observe during the execution of the works, requirements of safety rules which would generally include but not limited to following;
 - a. Each employee shall be provided with initial indoctrination regarding safety by the contractor, so as to enable him to conduct his work in a safe manner.
 - b. No employee shall be given a new assignment of work unfamiliar to him without proper introduction as to the hazards incident thereto, both himself & his fellow employees.
 - c. Employee must not leave naked fires unattended, smoking shall not be permitted around fire prone areas and adequate firefighting equipment shall be provided at crucial location.
 - d. There shall be a suitable arrangement at every work site for rendering prompt and sufficient first aid to the injured.
 - e. Requirements of ventilation in underwater working to licensed and experienced divers, use of gumboots for working in slushy or in inundated conditions are essential requirements to be fulfilled.
16. The contractor shall follow and comply with all GETCO safety Rules, relevant provisions of applicable laws pertaining to the safety of workmen, employees, plant and equipment as may be prescribed from time to time without any demur, protest or contest or reservations. In case of any discrepancy between statutory requirement and GETCO safety rules referred above the latter shall be binding on the contractor unless the statutory provisions are more stringent.

a. Fatal injury or accident Causing death	Rs. 1,00,000/- per person for death/	These are applicable
b. Major injuries or accident causing 25% or more permanent disablement To workmen or employees	Rs. 20,000/- per person	injury to any person,

Permanent disablement shall have same meaning as indicated in workmen's compensation Act. The compensation mentioned above shall be in addition to the compensation payable to the workmen/ employees under the relevant provisions of the laws as applicable from time to time. In case the owner is made to pay such compensation then the contractor is liable to reimburse the owner such amount in addition to the compensation indicated above.

ANNEXURE-A

OUR ENDEVOUR - Safety a habit

To create environment where Business Confidence is built through Best Business Practices and is fostered in an atmosphere of trust and respect between providers of goods and services and their users for the ultimate benefit of society and the nation, safety guidelines are agreed upon by the agency as under.

Safety is our prime concern and zero accident is our goal. In order to prevent the accident, while execution of works in indoor and outdoor systems of GETCO, the following guideline and preventive measures are identified.

<u>Indoor safety precaution</u>	<u>Outdoor safety precaution</u>
The method of work required T&P and manpower should be discussed between GETCO supervisor, contractor's supervisor and gang leaders.	The method of work required T&P and manpower should be discussed between GETCO supervisor, contractor's supervisor and gang leaders.
Prior to execution of work a joint survey must be conducted by GETCO supervisor and contractor's supervisor for risk assessment. - Clearly identify the work location, to distinguish between the equipment that is dead and other equipment / part that maybe live. - Disconnect equipment from supply. - Protect against other live parts. - Take special precautions when close to bare conductors / Busbar.	Prior to execution of work a joint survey must be conducted by GETCO supervisor, contractor's supervisor and DISCOM line man in order to identify the following: - HT/LT line or tap line crossing under each span of line of the work. - Isolation point of each line crossing. - Each line crossing & isolation point under each span must be discussed and noted in maintenance register with sketch.
Following safety guidelines are mandatory for all contractors operating in GETCO premises for Electrical, non-electrical & civil works. - The contractors must provide advance planning of work to concerned in-charge of substation in writing. - Before starting any work whether switch yard, "<u>permit to allow to work</u>" must be taken from control room in-charge. - Utilizing Electrical / non-electrical Equipment, safety rules must be implemented. - If the work is to be carried out on Sunday or public holiday, the necessary permission must be taken in advance, requesting in writing. - Unwanted person including children of labours will not be allowed at working site/ in the switchyard and in the prohibited area. - Any electrical work or electrical connections to equipment for any other work must be carried out by certified	Contractor's supervisor and GETCO Supervisor must ensure all isolations physically with adequate earthing technically prior to give clearance to gang leader for taking up job. While execution of stringing work, the identified line crossing must be isolated / de-energized and written clearance should be obtained from concerned DISCOM supervisor. The isolation of Tap line must be physically seen and verified by Contractor and GETCO supervisor. At D.O. fuse junction contractors' person should be posted to ensure that no person restore D.O. supply while work is under execution Contractor's supervisor must ensure that concern officer take LCP for EHV line and power line crossing.



electrician/wiremen with adequate size of Wire through MCB as per I.E. Rule. - Live penal area / bus bar must be isolated and sealed / bifurcated with red colour tape for visible warning. - Display Board must hang on LCP panel. - Transformer must be switched off whenever and wherever contractor and line workers are not satisfied with isolation, earthing or any equipment performance of GETCO, it will be pointed out and work shall begin only after resolution. Contractor shall not take up job in absence of GETCO authorized person. All wire temporary connection & material whenever erection activity has any connection and disconnection work of bus bar, string bus.	
All workers / labour of contractor & supervisors must use personal protective equipment (PPE) during the work like gloves, safety belt, Safety shoes, Helmet, earthing rods, etc, duly approved by GETCO.	All workers / labour of contractor & supervisors must use personal protective equipment (PPE) during the work like gloves, safety belt, Safety shoes, Helmet, earthing rods, Live line detector etc, duly approved by GETCO.
The local earthing must be done at the place of work before execution of any work.	The local earthing must be done at the place of work before execution of any work.
11 kV breaker in panel must be switched off and racked out only after ensuring no voltage in breaker and without door opening.	Circuit breaker opening is not an isolation and isolator on either side must be opened. No work during rains and cloudy weather condition.
	Transmission line activities. 1. Used of Voltage detector to ensure outage. 2. Earthing at three point, local, left & 3. right side of bus bar / string bus. 4. Match line colour code with colour of wrist band.
	Local earthing of electrical equipments like filter M/c, welding machine, testing kits etc. is must. Crane shall only be used for material handling and erection. Working platform shall only be used for work in switchyard.



GENERAL COMMERCIAL CONDITIONS: -

1. The Gujarat Energy Transmission Corporation Ltd., Gondal hereinafter called 'GETCO' / 'OWNER' intends to receive bids for **"Work of Erection of 66KV equipment, structures, earthing, installation, control wiring, yard Lighting, Control-Room Electrification & Supply & installation of furniture and supply and installation of CCTV Camera etc. at Haripar (Kerala) S/S."** detailed in the accompanying specifications in accordance with Terms and Conditions herein. The bids shall be prepared and furnished as per these instructions.
2. **The validity of tender is 180 days from the date of opening of technical bid**
3. **Earnest Money Deposit:**
 - a. **Payment of Earnest Money Deposit (EMD) can be accepted by RTGS/NEFT.**
 - b. **Tenders not accompanied by EMD shall be rejected.**
 - c. **If during the tender validity period, i.e. 180 days, the tenderer withdraws his tender, the EMD shall be forfeited and the tenderer may be disqualified from tendering for future works of GETCO.**
 - d. **The EMD will be returned promptly to the unsuccessful tenderer. The EMD will be returned to the successful tenderer after he furnishes the Security Deposit for performance and duly enters into the contract. If he fails to furnish the SD or to execute the contract for the work offered to him, his EMD shall be forfeited and the tenderer may be disqualified from tendering for further works for GETCO.**
 - e. All the Bidders shall be required to pay EMD, except those who are exempted as per Industries & Mines Department, GoG New Purchase Policy Resolution No. SPO/1095/2636(97) /CH dated 23.09.1997 for Small and Micro Scale Industries.
 - f. **In cases, where EMD need not to be paid, valid exemption Certificates duly Notarized has to be produced / attached in place of EMD documents as per the Tender Terms and Conditions.**
 - g. **The Micro and Small Scale Industrial (manufacturing) Units registered under Small Scale Industries of Gujarat State and holding subsequent registration with CSPO / NSIC / DGS&D, Registration Certificates for the item under Tender will be eligible for exemption from payment of EMD on submission of attested copies of their SSI (SSI/ MSME Part-II) & CSPO / NSIC / DGS&D Registration Certificates in EMD Cover. This benefit of exemption will not be admissible if they take part in the tender indirectly either through their dealers, agents, distributors or other intermediators.**
 - h. The Certificates should indicate the manufacture of items offered.
 - i. Government or Semi-Government Organizations, which are being run departmentally & are not Limited Companies, will be eligible for exemption from payment of EMD.
 - j. Participants not covered under these categories mentioned at Clause No. 4.9.3 will have to pay EMD compulsory, as prescribed in tender notice, failing which the "Bid" will be treated as "Disqualified Bid" and automatically stand as "Rejected Bid" at the time of opening of Preliminary / Technical Bid.
4. All commercial terms and conditions except rates shall be indicated in the technical & commercial bid only.
5. The Tenderers shall specifically note that the Tenders are invited on percentage basis only.
6. Arithmetical error will be rectified on the following basis:
 - a. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between the total bid amount and the sum of total costs, the latter shall prevail and the total bid amount will be corrected accordingly. If there is a discrepancy between work and figures, the amount advantageous to the Owner will prevail. If the bidder does not accept the correction of the errors as above, his bid will be



- rejected and the amount of EMD will be forfeited. The bidder should ensure that the prices furnished in various price schedules are consistent with each other.
- b. In the case of any inconsistency in the prices furnished in the specified prices schedules to be identified in Bid Form, the Owner shall be entitled to consider the highest price for the purpose of evaluation and for the purpose of award of Contract use the lowest of the prices in these schedules.
- c. Prior to the detailed evaluation, the Owner will determine the substantial responsiveness of each bid to the Bidding Document. For purpose of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the Bidding Document without material deviations. A material deviation is one which affects in any way the prices, quality, quantity or delivery period of the equipment, completion of works or which limits in any way the responsibilities or liabilities of the Bidder of any right of the Owner as required in these specifications and documents. The Owner's determination of a bid's responsiveness shall be based on the contents of the bid itself without resource to extrinsic evidence.
- d. A bid determined as not substantially responsive will be rejected by the Owner and may not subsequently be made responsive by the Bidder by correction of non-conformity.
7. The tenderers will ensure submission of the Tenders duly filled in before the due date and time.
8. **Security deposit:** - The contractor will have to pay the **Security Deposit at 5% of the order value on placing the order.** The contractor will have to pay **entire S.D i.e 5% by demand draft / BG of any Nationalized/Scheduled Bank as per approved format' within 10 days from the date of the issue of LOI.** higher percentage of security deposit may be fixed at the direction of The Superintending Engineer. DD/B.G. issued by some co-operative bank is acceptable as per listed under.

- 1 AXIS Bank
- 2 AU Small Finance Bank
- 3 Bandhan Bank
- 4 City Union Bank
- 5 CSB Bank
- 6 DBS Bank India Limited
- 7 DCB Bank
- 8 Dhanlaxmi Bank
- 9 Equitas Small Finance Bank
- 10 FEDERAL Bank
- 11 HDFC Bank
- 12 HSBC Bank
- 13 ICICI Bank
- 14 IDBI Bank
- 15 IDFC First Bank
- 16 IndusInd Bank
- 17 Jammu and Kashmir Bank
- 18 Jana Small Finance Bank
- 19 Karnataka Bank
- 20 Karur Vysya Bank
- 21 Kotak Mahindra Bank
- 22 RBL Bank
- 23 South Indian Bank
- 24 Standard Chartered Bank
- 25 Tamilnad Mercantile Bank
- 26 Ujjivan Small Finance Bank
- 27 YES Bank



- 28 Ahmedabad Mercantile Co-op. Bank
- 29 Nutan Nagrik Sahakari Bank Ltd.
- 30 Rajkot Nagrik Sahakari Bank Ltd.
- 31 Saraswat Co-Operative Bank Ltd.
- 32 SBPP Co-Operative Bank Ltd.
- 33 SVC Co-Operative Bank Ltd.
- 34 The Cosmos Co-op Bank Ltd.
- 35 The Gujarat State Co-Operative Bank
- 36 The Surat District Co-Op Bank
- 37 The Surat people's Co-op. Bank Ltd
- 38 The Baroda Central Co-Operative Bank
- 39 The Panchmahal District Co-Operative Bank
- 40 The Kalupur Commercial Co-op. Bank
- 41 The Rajkot Commercial Co-op. Bank
- 42 The Banaskantha Mercantile Co-op. Bank
- 43 Gujarat Gramin Bank

The security deposit will be refunded only after the completion of guarantee period of 1 year of work done or finalization of final bill whichever is later. (FDR will not be accepted)

9. Performance Bank Guarantee (PBG) for CCTV System :

“Since the CCTV Surveillance System supplied and installed under the contract carries a 36 (Thirty-Six) months warranty from the date of successful commissioning and acceptance, the successful bidder shall furnish a separate Performance Bank Guarantee (PBG) equivalent to 10% (Ten Percent) of the accepted value of the CCTV portion of the contract only, and not on the total contract value. The PBG furnished should have clear one-time validity upto the expiry of the Guarantee/Warranty period from the date of Commissioning of CCTV Camera Surveillance System.

The PBG shall be submitted before release of payment for the CCTV System or within 15 days of commissioning, whichever is earlier.

The PBG shall remain valid for the entire warranty period of 36 months, plus an additional three (03) months for claim settlement, if any.

During the warranty period, the contractor shall attend all complaints and rectify/replace defective equipment which are cover in warrantee as per the technical specifications of the tender, without any additional cost to GETCO. Failure to fulfill the warranty obligations shall entitle GETCO to invoke the PBG, wholly or partly, without prejudice to any other rights available under the contract. The PBG shall be released after successful completion of the guarantee/warranty period and settlement of all claims, if any.”

10. **Contract Period:-** The time allowed for completion the work is **3 (Three) Months** from the date of the commencement of the work, failing which the penalty ½% per week (+ GST applicable) or part thereof on delayed portion of work and / or supply value subject to ceiling of 10% (+ GST applicable) of the total contract value will be imposed.
11. The time limit for the work may be reduced and contractor should make all his efforts to complete the work within stipulated time limit as may be given by the Engineer in charge depending upon emergency of work, GETCO reserves the right to reduce the time limit without giving any notice.
12. **Goods and Service Tax (GST):-**



The amount and % of GST and Cess as applicable should clearly be indicated separately. (GST/Cess means all applicable Tax/Cess under GST Laws. GST Laws means IGST Act, GST (Compensation to the State for Loss of Revenue) Act, CGST Act, UTGST Act and SGST Act, 2017 and all related ancillary legislations). Contractor should charge GST in Invoice at the rate as agreed to / mentioned in acceptance of tender only and any deviation in the same shall not be accepted. Further, any additional liability of GST (later on due to wrong mentioning of GST rate, mis-interpretation of HSN/SAC Code, etc.) over and above as charged in the invoice shall be borne by the Supplier/Contractor. However, any refund received by the supplier / contractor on account of GST charged from the company; such refund shall have to be passed on to the company, along with interest if any. Such refund along with interest needs to be passed on suo-moto by the supplier / contractor.

Further, the Company has a right to recover the amount of GST along with penal interest at the rate of 18% per annum if GST charged is not paid / short paid to the government or fail to upload the details or uploads inaccurate particulars on GSTIN portal by the Supplier / Contractor within the stipulated time limit.

1% TDS SGST and 1% CGST or 2% IGST on principal amount is applicable with effect from 01.10.18.

All royalties, toll tax, local tax, development charges, Goods & Service Tax (GST), Cess & any other taxes as applicable. in respect of this contract shall be payable by the contractor & Gujarat Energy Transmission Corporation will not entertain any claims whatsoever in this aspect.

Statutory variation:

Any statutory increase or decrease in the taxes and duties including GST and Cess as applicable or in the event of introduction of new tax/cess or cessation of existing tax/cess subsequent to suppliers offer if it takes place within the original contractual delivery date will be to COMPANY's account subject to the claim being supported by documentary evidence. However, if any decrease takes place after the contractual delivery date, the advantage will have to be passed on to COMPANY. Statutory Variation clause will not be applicable in case of Supplier / Contractor has opted for Composition Scheme under GST

GST: -

- (i) Contractor has to submit the GST Registration certificate.
- (II) Contractor should be registered under GST laws which they shall pay the GST for this contract.
- (iii) Contractor has to submit invoice/Challan as documentary proof with each RA bill & Final Bill and in which it shall be specifically mention the nature of service & SAC code under which the amount of GST payable by contractor and payable by GETCO (if any) without fail.
- (iv) GETCO will be withheld the GST x amount of contractor and it shall be reimbursed on production of documents evidences of payment made by contractor
- (V) The Contractor has to submit invoice to GETCO indicating following.
Name, address and GST registration no. of the service provider Name and address of person receiving the service i.e. GETCO Description and value of taxable service provided
The total GST payable thereon with bifurcation of service tax GST payable by service provider and service receiver.
 - Contractor has to also supply tax invoice as described under GST rules and Regulation r indicating GSTIN No.
- (VI) "GST may be paid along with the RA Bills and you have to submit the CA Certificate and Undertaking signed by authorized signatory of the contractor along with the last RA bill / final bill to ensure that GST charged and collected from GETCO is paid to Government treasury and the accurate & correct details of invoices are also uploaded on the GST portal within the stipulated time. The Copy of CA Certificate and Undertaking is attached herewith.



However, final bill shall be paid and SD / BG shall be released only if the contractor has duly discharged its GST liability related to the said contract and submit necessary documentary evidences as mentioned above.

In case, Contractor fails to submit the above mentioned documentary evidences, the GST shall be recovered along with Interest @ 18 % from the payable amount of the contractor for said contract or any other contract.

13. WELFARE CESS: -

- A. As per the Welfare Cess Act, the welfare cess @ 1% is applicable on supply and erection items for supply, erection, testing & commissioning of substation, transmission lines, EPC/Turnkey projects, and civil works.
 - B. Contractor shall get registered under Welfare Cess Act before commencement of work in required head as per nature of work. Office of the Factory Inspector is authorized at present as a registering authority.
 - C. GETCO shall pay the welfare cess by way of reimbursing to contractors on production of documentary evidence of payment. Registration charges will not be reimbursed.
 - D. The contracts for which supply or part supply of material are in the scope of GETCO, then contractors shall deposit welfare cess on estimated cost of supplied items to GETCO on progressive basis of utilization. As this part of welfare cess is on GETCO account, the same shall be reimbursed to the contractor on receipt of request letter along with documentary evidence of payment. For calculation of welfare cess on supply part, valuation as per MR shall be taken and informed to the contractor for payment. This will be over and above the A/T value. The modality of payment/ reimbursement of welfare cess will be as under.
 - E. On receipt of A/T, the contractor / bidder will get them registered under Welfare Cess Act and submit the documentary evidence to the concern office. Copy of Registration certificate shall be submitted before submission of 1st RA bill
 - F. Before release of payment of first R.A.Bill, the contractor has to submit the documentary evidence of registration. Only thereafter, the bill will be processed for payment.
 - G. Before release of payment of subsequent R.A.Bills, the contractor has to submit the documentary evidence of payment of welfare cess of previous R.A.Bill.
 - H. The welfare cess shall be reimbursed to the contractor on submission of copy of documentary evidence of payment by observing due formalities.
- 14. The contractor will have to give indemnity bond for material on Non-judicial Stamp paper of value Rs.300/- to GETCO as per attached format. The cost of stamp paper will be borne by the contractor.**
- 15. The contractor will have to give safety cum indemnity on Non-judicial Stamp paper of value Rs. 300/- to GETCO against any possible claim of compensation for damage to contractor's staff or any of third party during the execution of work. The cost of stamp paper will be borne by the contractor.**
- 16. Also the successful bidder will have to execute Agreement on stamp paper of value Rs.300/- at our Transmission Circle, GETCO, Gondal before commencement of works as per GETCO's prescribed Performa. The cost of stamp paper will be borne by the contractor.**
17. As regard damage the materials, equipment and worker of the contractor, he himself will be responsible. If there is any compensation to be paid in respect of "WORKMAN" compensation act of any other statutory provisions, the same will have to be paid by the contractor direct. If he thinks fit he may take necessary insurance cover, at his cost.



18. The quantum of the work as mentioned in estimate/ schedule -'B' is tentative and it can be varied or differed as per site condition. The payment shall be made only on actual work executed or order quantity, whichever is less.
19. **The tenderer will be abided by and fulfill all the terms and provisions of the "Tender & Contract" for works as applicable and incase of any default there to the GETCO shall forfeit the S.D. or any other action as may be decided by Superintending Engineer (TR), GETCO, Gondal.**
20. The cost of damages, if any will be recovered from the Contractor's bill. The assessment of which will be done by field Engineer at his sole discretion and his decision shall be binding to the contractor and shall be considered as final and unchallengeable.
21. GETCO shall deduct the Income-Tax and other taxes as per prevailing rules from each and every bill.
22. **No part rate or reduced rate shall be allowed in final bill.**
23. **No higher rate or revised rate will be applicable for the work, if work is held up/ closed due to whatever so reasons.**
24. **GETCO will not pay any idle charge for any site conditions or any circumstances.**
25. **For shortages of any materials issued by the GETCO for the work, recovery shall be made from you, on the basis of prices of the materials (prevailing on the date of settlement of materials account) plus 15% supervision charges + GST applicable**
26. **Billing and Payment Terms**
 - (a) The contractor shall have to submit the RA bill of order to the concerned Deputy Engineer of sub-division of concerned division for payment once in a month period.
 - (b) 90% payment of amount claimed as per invoice by party as per schedule-B/scope of the work covering various activities and as per terms and conditions of tender made within 60 days from the date of R.A.Bill.
 - (c) Balance 10% amount shall be paid after settlement of material account of items supplied, used, and credited the balance material. The same amount will be released in final bill only and payment will be made only after passing of final bill.
 - (d) 10% amount of bill will be retained from each RA bill for the work executed after the scheduled date of completion and on finalization of time limit extension by competent authority; this amount will be released after deducting amount towards the time limit penalty if any.
 - (e) If net payable amount is more than Rs10 Lacs, payment will be released from circle office/corporate office. All the payment shall be made through RTGS/NEFT only.
 - (f) The payment will be released within 60 days. However, in case of any delay due to any eventuality no interest charges shall be paid.
 - (g) All the bills in accordance with the above clauses must be submitted with the following information:
 - 1) Item wise work done during billing period.
 - 2) Item wise cumulative work done.
 - 3) Account for material consumed and balance stock.
 - 4) For non-submission or part submission of above information, an additional 5% amount of the respective RA bill shall be withheld and shall only be released at the time of final bill.

The original and duplicate copy of the bill along with relevant documents including approved Test Certificate where applicable should be now uploaded on Vendor Management System (VMS) Portal, www.vms.guvnl.com including invoice, documents which are digitally signed by Vendors / Suppliers should be sent to consignee.

The VMS portal also provides 'real time' tracking of invoice status to monitor the process of submissions and receive timely updates



(h) PAYMENT TERMS UNDER MSME ACT:

(1) You have to update your MSME detail on GETCO's website by following link <https://getco.co.in/msme/> (and intimate to concern bill submitting office with copy to this office).

(2) The payment will be made within 45 days from the ***date of acceptance** or the ****date of deemed acceptance** of goods or Services i.e. After submission of all required documents as per AT Terms & time to time circular issued by GETCO's Corporate Office as well as statutory requirement to process the Bill.

• Date of acceptance means –

- (a) The day of actual delivery of goods or the rendering of services; or
- (b) Where any objection is made in writing by the buyer regarding acceptance of goods or services, the day on which such objection is removed by the supplier;

**** "Date of deemed acceptance"**

means, where no objection is made in writing by the buyer regarding acceptance of goods or services within fifteen days of the delivery of the goods or the rendering of services, the day of the actual delivery of goods or the rendering of services;

- 27. The contractor has to follow all labour laws, safety rules and regulations. The GETCO does not take any responsibility in case of accident or injury to the workers. The safety/ security of men, materials and equipments shall be sole responsibility of the contractor.
- 28. The compliances of all Central/ State Govt. rules, safety and insurance rules etc. and that of local body, is a must condition for the agency.
- 29. The Gujarat Energy Transmission Corporation Limited does not bind itself to accept the lowest or any tender. GETCO reserves the right to reject any or all tender without signing any reasons whatsoever.
- 30. The erection work should be commenced immediately from the date of receipt of instructions from office and should be completed within thereafter.
- 31. The tender includes all minor accessories and items of work which are not have been specifically mentioned in the specification schedule etc. but are essential for completion of work. The contractor will not be eligible for any extra payment in respect of such minor accessories and items of work.
- 32. Tenderer will be qualified only who have submitted all the required documents as mentioned in tender notice.
- 33. **Guarantee: - It is the responsibility of the contractor to handover the complete work free of all defects. If within a period of one year from the date of handing over the work it is noticed that any defects occur due to bad workmanship, it is the duty of the contractor to rectify / replace the same at his own cost. If within seven days from the date of receipt of such notice, the contractor does not take up the work, same will be carried out at his risk and cost.**
- 34. **In case of any dispute/ doubt, the decision of Superintending Engineer (TR), GETCO, Gondal. shall be unchallengeable, final and binding to the contractor.**
- 35. The contractor has to remain in close day to day contact with Engineer in charge of work i.e. who will issue detailed instruction for the commencement of the work.
- 36. Contractor will abide by and fulfill all the terms and conditions and general terms and condition of the contract for works available in the office.
- 37. All other general terms and conditions as prevailing in the GETCO shall be applicable to the contract.



38. **The contractor will have to complete entire job as per directive and instruction of Engineer in charge. If he fails to do so entire work will be carried out at contractor's risk and cost.**
39. The contractor must engage sufficient knowledgeable persons round the clock, exclusively for oil filter machine provided by GETCO for oil filtration work. No loss of oil should occur and in case if occurs; its cost will be recovered from contractor's bill. The contractor has to apply sufficient nos. of cycles for oil filtration works as decided by the Engineer in charge.
40. The tender shall be issued to only the experienced contractor who has completed such job of similar nature and magnitude satisfactorily in time. However, filling of on line tender, does not qualifies the tenderer to offer the bid.
41. **Tender offer without payment of EMD required certificate, documents, list of tools, tackles, equipment etc. required for execution of job will be out rightly rejected without assigning any reason thereof and decision of Superintending Engineer (TR), GETCO, Gondal will be final and unchallengeable.**
42. The Contractor will be governed by The GETCO's general conditions of works contract. The Booklet will be available in the concerned office in any working days. In the event of placing order, the contractor will have to sign this booklet along with other document and agreement. All the usual terms and conditions of the GETCO, through the same might have not been mentioned in this specification or contractor booklet will applicable to this contract, and the decision of the Superintending Engineer shall be binding on the contractor.
43. After completion of the work, all the surplus materials issued by the GETCO shall be returned by you to the respective center of the GETCO as per instruction of Engineer in charge at your cost.
44. Specification in any items mentioned in tender are subject to change without any prior notice and binding to the contractor.
45. If the work is required to be carried out during fix outage then the contractor has to deploy adequate man power, material, tools etc. well in advance and has to complete the entire work during this specific outage period only, failing to which GETCO shall be at liberally to deduct the amount of revenue loss due to prolong outage.
46. If required by GETCO you shall have to provide free to and fro traveling facility to our Junior Engineer or Technical staff for the work.
47. **The contractor shall not refuse to execute the work order at any time and it will be his sole responsibility to execute and complete this work as per the instruction of Engineer in charge.**
48. No subcontractor, Power of Attorney shall be allowed without prior approval of competent authority.
49. All the materials issued by GETCO shall be transported to the work site on same day and to be preserved in safe custody failing to which GETCO shall initiate legal action if required. Similarly, as per instruction of Engineer in charge, you have to credit the material at GETCO store without any loss of time failing to which GETCO shall initiate legal action if required.
50. No tools, tackles, manpower, crane facilities etc. will be provided by the GETCO.
51. The contractor has to submit the list of tools, tackles, equipment with him along with his tender offer. The tender without this list and other required documents (as mentioned above herein the tender) should be rejected out rightly.
52. **The contractor has to deploy minimum 8 to 10 skill labours/ fitters at site daily failing to which GETCO shall deduct 1,000/- per day from the bill .**
53. **The bidder shall specifically note that GETCO will not pay any extra amount towards any type of claim except for the description indicated in Schedule - 'B'. The party has to carry out all other/ additional required activities/ works as directed by Engineer in charge which is not mentioned in Schedule but required to be completed as per site condition and for this work no extra payment shall be made by GETCO.**
54. **Power supply :-**
The concerned EE (Const.) shall apply for 11KV Transformer Center at the site of new Substation and for which concerned DISCOM shall erect the required line and install the transformer Center, for



which, the cost is to be borne by GETCO. Subsequently, the Agency finalized for contract by GETCO, shall apply for temporary connection to the concerned DISCOM Sub-Division paying required Service Charges and Deposit. Such temporary connections to be released on the name of Contractor on recommendation of the concerned EE (Const.). The power so consumed shall be charged at the prevailing tariff rate, and same is to be borne by contractor.

55. **GENERAL:-**

- a. **The interpretation of specifications doubts etc.:-**In case of any doubts about what is mentioned in specification or schedule or elsewhere, the tenderer should get all doubts cleared from the Department in writing and in advance of filling in the Tender. In case of difference of opinion about interpretation of specification etc the decision of **Superintending Engineer, Transmission Circle, GETCO, Gondal** will be final and shall be binding to the contractor.
 - b. **Accounts of Materials issued:-**The contractor shall have to maintain accurate day to day and item wise account of use of issued materials which shall be got checked from time to time by the representative of the GETCO. The contractor will be responsible for custody and preserving the issued materials till the work is handed over by the contractor after completion.
 - c. The contractor has to maintain site register, covering all the daily details of material receipt and utilization, progress of work etc. This register shall be checked and signed by Engineer in charge and Executive Engineer during the site visit. Any bill without site register shall not be passed.
56. The contractor shall be responsible for breakages, losses and theft of material during transit or erection after the materials issued from the stores till the completion of work and is taken over by the GETCO.
57. The contractor will be responsible for the loss, distribution or deterioration of the materials, stores or articles supplied to him by the GETCO, even if such a loss distribution or deterioration has occurred under any circumstances whatsoever beyond his control as if the materials, stores or articles so supplied were his property.
58. The contractor shall co-operate with the GETCO in recording measurement etc. as expeditiously as possible and he shall fulfill all the requirements which are necessary to finalize the accounts on the basis of its records and pay him such amount as if found due to him together with the amount of security deposit. If any remaining payable to him after deduction, there from the amount due by him to the GETCO. The GETCO shall not entertain further claim from thereafter.
59. The competent authority can delete any item in schedule of the tender, if he feels that the rate quoted by the contractor for that item is abnormally high when compared to the estimated rates.
60. **Delivery of Material:-**All material/ equipment required for this work as per schedule shall be delivered at any store centers of Const. Division, Rajkot jurisdiction and contractor has to take delivery from these stores at his own cost only.
61. You will ensure that completion of erection work i.e. all works connected with substation having been completed correctly as per Indian Electricity Rules & procedure. Any extra cost involved due to incompleteness of work or bad workmanship found out Subsequently shall be set right forth with by you at your own cost.

62. **PROTECTION OF PROPERTY AND CONTRACTOR'S LIABILITY**

The Contractor shall be responsible for any damage resulting from his operations. He shall also be responsible for protection of all persons including members of public and employees of the Owner and the employees of other Contractors and Sub-Contractors and all public and private property.

63. Quantities given in the Schedule of erection in price Bid are to be executed by the contractor at the rates accepted by the Board in the A/T. In case of any deviation in tower quantity / type of tower / length of line, excavation / concreting resulting into an increase in which event the field officer shall obtain prior approval of the Head Office and excess quantity shall be paid only at the accepted



rate of the A / T. No any Excess work / amount to be executed without prior approval of competent authority.

64. The erection work beyond contractual ceiling amount shall be done only after approval from the GETCO authority.

65. CONTRACTOR'S SITE ESTABLISHMENT

The Contractor shall at all times keep posted an authorized representative for the purpose of the Contract. Any written order or instruction of the Engineer or his duly authorized representative shall be communicated to the said authorized resident representative of the Contractor and the representative shall be available at a stated address for this purpose.

66. CO-OPERATION WITH OTHER CONTRACTORS

Contractor shall co-operate with all other Contractors or tradesmen of the Owner, who may be performing other works on behalf of the Owner and the workmen who may be employed by the Owner and doing work in the vicinity of the Works under the Contract. The Contractor shall also so arrange to perform his work as to minimize, to the maximum extent possible, interference with the work of other Contractors and their workmen. Any injury or damage that may be sustained by the employees of the other Contractors and the Owner, due to the Contractor's work shall promptly be made good at the Contractor's own expense.

67. PROTECTION OF WORK

The Contractor shall have total responsibility for protecting his works till it is finally taken over by the Engineer. No claim will be entertained by the Owner or by the Engineer for any damage or loss to the Contractor's works and the Contractor shall be responsible for complete restoration of the damaged works to original conditions to comply with the specification and drawings.

68. Definition of Terms :

73.1 Owner shall mean the Gujarat Energy Transmission Corporation Ltd, Vadodara or any of its group companies i.e. GUVNL, GSECL, MGVL, DGVCL, PGVL, UGVCL and shall include its legal representatives, successors and assigns.

69. Contractor's Default :

74.1 If the Contractor shall neglect to execute the work with due diligence and expedition or shall refuse or neglect to comply with any reasonable order given to him, in writing by Engineer in connection with the works or shall contravene the provisions of the contract, the owner may give notice in writing to the contractor to make good the failure, neglect or contravention complained of should the contractor fail to comply with the notice within 30 days from the date of serving the notice, then and in such case the owner shall be liberty to employ other workmen and forthwith to execute such part of the work as the contractor may have neglected to do or if the owner shall think fit, without prejudice to any other right he may have under the contract to take the work wholly or in part out of the contractor's hand and re-contract with any other person or persons to complete the work or any part thereof and in that event the Owner shall have free use of all Contractor's equipment that have been at the time on the site in connection with the works without being responsible to the contractor for fair wear and tear thereof and to the exclusion of any right of the contractor over the same, and **If the sum that the contractor is entitled to be paid plus the costs incurred by the owner in completing the works, exceeds the contract price or the entire works if entire works have been completed or the price for part of the work if part of the work have been completed, the contractor shall be liable for such excess.**



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Web site: www.getcogujarat.com



If such excess is greater than the sums due to the contractor, the contractor shall pay the balance to the owner and if such excess is less than the sums due to the contractor, owner shall pay the balance to the contractor. For facilitating such payment, over shall encash the Bank Guarantees of contractor available with Owner's retain such other payments due to the contractor under the contract in question or any other contract that the owner's may have with contractor. Such payment of excess amount shall be independent of the liquidated damages for delay which the contractor shall have to pay if the completion of work is delayed.



: SPECIAL COMMERCIAL CONDICATION FOR BIDDER: -

1. TAKING DELIVERY AND INSURANCE: -

- 1.1 The contractor has keep S/S or line materials in safe custody and transport to the respective sites and will be reasonable for any damages to or loss of all materials at any stage during transportation or erection or taking over of the line by GETCO.
- 1.2 The Contractor has to open site store and ensure for safe custody of all the stored materials at his own cost.
- 1.3 **The Contractor shall have total responsibility for the entire materials stored loose, semi assembled and/or erected by him at site in his custody. The Contractor shall make suitable security arrangements is at own cost to ensure the protection of all materials, equipment and works from theft, fire pilferage and any other damages and loss, it shall be the responsibility of the contractor to arrange for security till the works are finally taken over by the Corporation.**

2. STORAGE-CUM-ERECTION INSURANCE: -

- 2.1 The contractor shall take suitable storage-cum-erection insurance cover at his cost to the extent of 100% cost of Line or S/S materials, which are required to complete the Line or S/S. Bidder shall have to take the comprehensive **Marine cum Erection (MCE)** insurance policy against any loss, damage, theft, pilferage, fire etc. for the complete period of storage, fire etc. for the complete period of storage, erection and commissioning up to the time of taking over of the Line or S/S by GETCO. **However, if the work is not completed within stipulated time limit as mentioned into work order, the MCE shall be extended by the contractor up to the work completion and taking over of the line or S/S by GETCO. Moreover, the charge for extension of insurance shall be borne by contractor if the delay is attributed to the contractor. The charge for extension of insurance shall be reimbursed by GETCO to the contractor on production of proof for extension of MCE if the delay is attributed on the part of GETCO.** The contractor shall deal directly and pursue the claim with the Insurance Company and shall be responsible in regard to maintenance of all insurance coverage as well as for settlement of claim. The proof of insurance policy taken by the successful contractor shall be furnished/submitted to Engineer-in-charge of GETCO. **No material shall be issued to bidder/erection agency in absence of such insurance policy. The risk shall be covered for lifting of materials from store to final handing over to GETCO. Further in absence of the above insurance policy, R.A. bill payment will be withheld.**
- 2.2 In the event of any damage, theft, loss, pilferage, fire etc, Contractor will be responsible to lodge, pursue and settle all the claims with the insurance company for all items, materials and the corporation shall be kept informed about it. Contractor shall replace the lost/damaged materials/items promptly irrespective of the settlement of the claims by underwriter and ensure that the work progress is as per agreed schedule. The loss, if any, such replacement will have to be borne by the contractor and GETCO will not entertain any claim/representation in this regard. However, it will be contractor's responsibility to insure the entire project till the line / sub-station or any other project / works is taken over by the GETCO.

- 2.3 **(I) The estimated cost of insurance for erection part is Rs. 569.50 Lakhs**
(II) The estimated cost of insurance for only marine part i.e excluding transformer cost is Rs. 180.03 Lakhs



3.0 INSURANCE

- 3.1 The Contractor at his cost shall arrange, secure and maintain all insurance as may be pertinent to the Works and obligatory in terms of law to protect his interest and interests of the Owner against all perils detailed herein. The form and the limit of such insurance as defined herein together with the under-writer in each case shall be acceptable to the Owner. However, irrespective of such acceptance, the responsibility to maintain adequate insurance coverage at all time during the period of Contract shall be of Contractor alone. The Contractor's failure in this regard shall not relieve him of any of his contractual responsibilities and obligations. The insurance covers to be taken by the Contractor shall be in the joint name of the Owner and the Contractor. The Contractor shall, however, be authorized to deal directly with Insurance Company or Companies and shall be responsible in regard to maintenance of all insurance covers. Further the insurance should be in freely convertible currency.
- 3.2 Any loss or damage to the material during handling, transportation, storage, erection, and all activities to be performed till the successful completion of commissioning of the line shall be to the account of the Contractor. The Contractor shall be responsible for preference of all claims and make good the damages or loss by way of repairs and/or replacement of the equipment, damaged or lost. The transfer of title shall not in any way relieve the Contractor of the above responsibilities during the period of Contract. The Contractor shall provide the Owner with copy of all insurance policies and documents taken out by him in pursuance of the Contract. Such copies of documents shall be submitted to the Owner immediately after such insurance coverage. The Contractor shall also inform the Owner in writing at least sixty (60) days in advance regarding the expiry/cancellation and/or change in any of such documents and ensure revalidation, renewal etc., as may be necessary well in time.
- 3.3 The perils required to be covered under the insurance shall include, but not be limited to fire and allied risks, miscellaneous accidents (erection risks) workman compensation risks, loss or damage in transit, theft, pilferage, riot and strikes and malicious damages, civil commotion, weather conditions, accidents of all kinds, etc. The scope of such insurance shall be adequate to cover the replacement/reinstatement cost of the equipment for all risks up to and including delivery of goods and other costs till the equipment is delivered at Site. The insurance policies to be taken should be on replacement value basis and/or incorporating escalation clause. Notwithstanding the extent of insurance cover and the amount of claim available from the underwriters, the Contractor shall be liable to make good the full replacement/rectification value of all equipment/materials and to ensure their availability as per project requirements.

4.0 PENALTY FOR DELAY: -

The bidder should note that the completion time allowed for carrying out the work should be strictly observed. Any delay that may take place in supply and erection beyond contractual cutoff date stated as per stipulated delivery period shall be subject to the penalty ½% per week *with taxes as applicable* or part thereof on delayed portion of work and / or supply value subject to ceiling of 10% of the total contract value *with taxes as applicable*

*In event of failure of the Contractor to pay the amount of Penalty as demanded **the Owner shall be entitled to deduct the amount of Penalty for delay from the amounts payable to the Contractors under any bills raised under this contract of any other amount payable under any other contract with the GUVNL and its Subsidiary Companies i.e. GETCO, GUVNL, GSECL, MGVCL, DGVCL, PGVCL, UGVCL.** It is permissible for the Owner to adjust the amount of Penalty of delay against any Bank Guarantee furnished by the Contractor under this contract or any other contract with GUVNL and / or its subsidiary companies.*



5.0 “RIGHTS OF THE OWNER”

Whenever any claim of claims for payment of a sum of money arises out of or under the contract against the Contractor, the Owner shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security if any deposited by the Contractor and for the purpose aforesaid the Owner shall be entitled to encash and withhold the amount of performance Bank Guarantee or other security if any furnished as the case may be. The Owner shall also have a lien over the same pending finalization or adjudication of any such claim in the event of the security is insufficient to cover the claimed amount of amounts the Owner shall be entitled to withhold and have lien to retain to the extent of the such claimed amount of amounts referred to above from any sum of sums found payable or which at any time thereafter may become payable to the Contractor under the same contract or any other contract with the Owner of GUVNL or its subsidiary companies pending finalization of adjudication of any such claim.

Lien in respect of Claims in other Contract.

- 1 Any sum of money due and payable to the contractor (including the security deposit) under the contract may be withheld or retained by way of lien by the Owner against any of its claim in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Owner of GUVNL or any of its subsidiary companies.*
- 2 It is and agreed that the sum of money so withheld or retained under this clause by the Owner will be kept withheld re retained as such by the Owner till its claim arising out of the same contract or any other contract is wither mutually settled or determined by the arbitrator or competent court as the case may be and the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and as may be duly notified to the contractor.*



TERMS & CONDITIONS REGARDING INDUSTRIAL LAWS AND OTHER RELATED MATTERS

1) Wages to be paid at time of payment etc. by the contractor.

- a. The contractor shall pay minimum prevailing rates per day or as may be specified hereafter or rates fixed under the minimum wages Act, whichever is higher. The wages or very contract labour employed by him under this contact shall be paid by him before the expiry of 7th day of the month in respective of which the wages are payable (i.e. wages of a month have to be paid by him in the first week of the next month). The payment shall be disbursed in the presence of management representative during the working hours in factory premises and the contractor shall get the entries certified in the register of wages by the representative of the GETCO. Any default will result in cancellation of contract forthwith or also the contractor shall be paid punishable to the extent of Rs.100/- fine per each day.
- b. The contractor shall give his telephone number and address to the GETCO so that in case of labour troubles etc. the contractor can be contacted. The contractor shall arrange to have his office outside the factory premises and the contractor shall keep himself present throughout the working hours.

2) Labour Laws

- (A) Person below the age of 18 years shall not be employed for the work.
- (B) No. female worker shall be employed in the night shift between 7 p.m. to 6 a.m.
- (C) Contractor shall maintain a valid labor license under the contract labour (Regulation and Abolition) Act for employing necessary manpower to be required by him. In the absence of such license the contract shall be liable to be terminated without assigning any reason thereof.
- (D) The contractor shall at his own expenses comply with all labour laws and keep the GETCO indemnified in respective thereof. Some of the major liabilities under various labour and industrial laws which the contractor shall comply with are as under: -
- i. Payment of contribution by way of employer's contribution towards provident fund, family pension scheme, Deposit linked insurance scheme, Administrative charge etc. at the rates make applicable from time to time by Government of Gujarat/Government of India or other statutory authority.
 - ii. Payment of deposit in respect of each contract labour at the rate as per admissible with the office of commissioner of Labour as per the contract Labour (Regulation and abolition Act.).
 - iii. License fee as prescribed under the contract labour (Regulation and abolition Act) and rules framed there under depending upon the number of workmen employed by the contractor.
 - iv. Paid leave facility and wages as per the provision of the factories Act at the rate of one day for every 20 days of working.
 - v. Identify cards as prescribed under the factories Act with photo at fixe there to the same identification. Liabilities as per industrial Disputes Act any payment to the contractor's employees arising out of any claim or disputes under the industrial Disputes Act, 1947 or any other labour laws.
 - vi. Payment of compensation in case of accidental injury.
 - vii. Maternity leave as per the provisions of the maternity Benefit Act. The above are some of the major liabilities of the contractor in addition to other liabilities. Prescribed under the various labour laws in force from time to time from statutory authorities like State Government/ Government of India which the contractor shall have to comply with.



3) Provident fund & Family pension Scheme: -

The contractor shall submit along with his bill (month wise) a statement regarding deduction against employees' provident fund and family pension scheme in respective of each concerned employee, provident fund and family pension scheme at the rate at admissible (or at the rate made applicable by the Government from time to time) of the wages. The contractor's contribution and his workers' contribution towards provident fund and family pension scheme shall be deposited by the contractor with concern regional Provident Fund Commissioner office.

4) Deposit Linked Insurance Scheme: -

The contractor shall have to deposit ½ % of the wage in respect of employees who is a member of the Provident Fund as the contribution to the deposit.

Linked insurance Scheme with concern regional Provident Fund Commissioner office.

5) Administrative Charges: -

Administrative charges for maintaining provident fund A/C shall be deposited by the contractor with concern regional Provident Fund Commissioner office at the rates applicable.

6) Paid Leave Facility: -

Paid leave facility at the rate of one day for every twenty days worked by the contract labour shall be provided by the contractor to his workers. He shall maintain leave Records/leave cards for individual laborer which shall be duly verified and approved/certified by the authorized officer of the GETCO.

7) Workmen's compensation fund & Employer's Liability Insurance: -

The contractor shall cover all his employees under workmen's compensation fund and under the liability insurance. Insurance shall be affected for the entire contractor's employee engaged in the performance of this contract. If any of the work is subject the contractor shall require the sub-contractor to provide workmen's compensation and employer's liability insurance for the latter's employees unless such employees are covered under the contractor's insurance.

8) The contractor shall employ adequate number of experienced staff at site for dial supervision and for maintenance of various register and records required under the law and contract No. payment for supervision shall be admissible.

9) Contractor to Identify GETCO: -

The contractor shall indemnify GETCO and every member officer and employees of GETCO also, Engineer-in-charge and his staff against all actions, proceeding, claims demands, costs and expenses which may be made against GETCO or Government for or in respective of performance of his obligation under the contract documents. The GETCO shall not liable for or in respective of or in consequence of any accident or injury to any workman or other person in the employment of the contractor or his sub-contractor and the contractor shall indemnify and keep indemnified the GETCO against all such damage and compensation and against all claims, demands, proceedings costs, charges and expenses whatever in respective thereof in relation thereto.

10) The GETCO reserves the right to terminate this rate contract at any time during its tendency without giving notice of termination or any reasons thereof.

11) The GETCO will be entitled to deduct directly from the bills, to be paid to the contractor any sum or payable by you and which sum/sums the GETCO is required to pay as principal employer on account of your default in respect of all liabilities referred to in above clauses.

12) The contractor will be required to produce a solvency certificate for an amount minimum of 20% of estimated cost of the tender and also to produce his Income-Tax clearance certificate.



GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
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Web site: www.getcogujarat.com



SAFETY CUM INDEMNITY BOND

(On Non-Judicial Stamp paper of value not less than Rs. 300.00)

KNOW ALL MEN BY THESE PRESENTS that we, _____ By
this SAFETY CUM INDEMNITY BOND Executed on this _____ Day of _____ 2024. I/We
having Registered Office (herein after called "THE CONTRACTOR" which expression shall mean
and includes my /our heirs, executors, administrators and legal representatives, successors and
permitted assigns) do hereby binds myself/ourselves and also our company/firms after having
the power to bind by this promise and undertaking in favor of the Gujarat Energy Transmission
Corporation Limited (GETCO), Vadodara a State Transmission Utility under The Electricity Act,
2003 having its registered office at Sardar Patel Vidyut Bhavan, Race course, Vadodara.(
hereinafter called as GETCO, which expression shall mean and include its legal representative,
administrators assigns) has agreed under the terms and conditions of the contract no.
_____ Dated _____ made
between _____ and _____ for the contract
of _____
_____ v
alue of Rs. _____ interlaid on Production of Safety cum Indemnity Bond.

We do hereby undertake and agree to Indemnify and keep Indemnified GETCO from time to time
to _____ the extent of _____ Rs. _____ Rupees
_____ only
against any losses or damages, costs, charges and expenses caused to or suffered by reason of the
CONTRACTOR while Project, R&M, O&M work including work carried out by outsourcing agency,
failing to take proper care or not complying the guidelines given hereunder as per Annexure-A and
instructions which may be given from time to time during the continuance of the contract and we
further undertake to unconditionally pay the amount claimed by the GETCO on demand and
without demur to the extent aforesaid.

Whereas the CONTRACTOR has/have been awarded to execute the job/works under order no.
_____ dated _____ for
_____ i
ssued by the GETCO after having observing necessary formalities, the details of which is described
in the order no. _____ dated _____ and whereas the said job/works will be /likely to be done in places
covered under Employees' State Insurance Act,1948 (ESI) and /or the Workmen Compensation
Act,1923 and /or other laws relating to the Labour Management and Welfare Act. (Respective
Amendments)

And whereas according to the condition of the Contract the CONTRACTOR is under obligation to
execute this Safety cum Indemnity Bond before the commencement of actual execution of work

Now the indenture witnesses that I/We the CONTRACTOR do hereby undertake to follow the
guidelines as per Annexure-A prepared by the GETCO.



Further we the CONTRACTOR agree that the GETCO shall be sole judge of and as to whether there has been any breach of the guidelines as per Annexure-A of this bond and as to the extent of the loss, damages, costs, charges and expenses caused to or suffered by the GETCO.

We the CONTRACTOR further agree that our liability under this bond shall not be discharged because of the change in the constitution of the GETCO or for the extension of the time limit or for any other reason.

We the CONTRACTOR further agrees to the given terms and conditions:

- That the CONTRACTOR undertakes /undertake to indemnify and keep harmless the GETCO from all claims, actions, proceedings and risk, damage danger to any person whether belonging or not belonging to the. CONTRACTOR.
- That the CONTRACTOR shall keep harmless the GETCO from all claims, compensation, damages any proceedings in respect of any of its employee / workmen under the Workmen Compensation Act or any other laws for the time being in force.
- That, if during the course of execution of work as stated in the contract order mentioned hereinabove issued by the OBLIGEE, it is found that the CONTRACTOR has not complied with guidelines as per Annexure-A or terms and conditions / formalities within the meaning of Employees' State Insurance Act,1948 (ESI) or Workmen Compensation Act 1923 or any other laws relating to the Labour Welfare for the time being in force, and also has not observed the safety norms in accordance with the law prevailing at the place of work/job to the satisfaction of the GETCO, the GETCO shall have the right to stop the execution of work/job and the period of such stoppage shall not be taken into account for the calculation of the total period of completion of work for which the CONTRACTOR is responsible to complete the work/job and it will be deemed that discontinuance was due to default of the CONTRACTOR .
- That, if any time, due to exigency, GETCO as the Principle Employer, becomes liable to pay any such compensation mentioned hereinabove, whether on failure of the CONTRACTOR or for any other reason, the GETCO shall have the right to recover the said amount from any amount receivable by GETCO or any bank guarantee deposited or anything payable whether in connection with this contract or other contract by the CONTRACTOR to the OBLIGEE.
- That the CONTRACTOR is/are aware and accept that for the persistent or repeated violation of any guidelines as per Annexure-A and terms and conditions mentioned in this Safety cum Indemnity Bond, GETCO shall have right to terminate the contract of work issued to the CONTRACTOR.
- In case if any safety related fatal Electrical / Mechanical accident occurred to any employee of agency or outsider due to negligence or non-compliance of GETCO safety norms then in addition to the compensation and liability as per statutory requirement, contractor / agency is hereby agreed to pay the penalty amount as given below:

Sr.No	Amount of Contract in Rs.	Penalty amount
1	Up to ₹ 1 Lac	₹ 5000/- plus GST as applicable
2	Above 1 Lac to ₹ 10 Lacs	₹ 40000/- plus GST as applicable
3	10 to ₹ 100 Lacs	₹ 100,000/- plus GST as applicable
4	> 100 Lacs	1.0 % of contract value plus GST as applicable

- I/We the CONTRACTOR hereby confirm that in case of any dispute/difference for settlement of claims under this Safety Cum Indemnity bond the courts in Gujarat State wherever



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job/work is performed or as per GETCO norms shall have the jurisdiction to decide the rights & liabilities of the parties while adjudicating the matter of claims under this Safety Cum Indemnity Bond.

- h. This Safety cum Indemnity Bond shall continue and hold good until it is released by the GETCO in Writing on the CONTRACTOR's application after the Contractor has discharged all his obligations under the order mentioned hereinabove and submitted a "NO DEMAND CERTIFICATE" from the GETCO under the said order. The Safety cum Indemnity Bond shall be valid for a CONTRACT PERIOD and renewable thereof (Claim Period).
- i. This Safety cum Indemnity Bond and the guidelines as per Annexure-A herein contained are in addition to and not by way of limitation or substitution for any other guarantee, indemnities Hereto before given to the GETCO by the CONTRACTOR and this indemnity does not Revoke or limit such indemnities or guarantees. IN WITNESS WHEREOF the Parties hereto have executed this indenture the day the year First hereinabove written.

(Signature with seal of The CONTRACTOR)

In the presence of:

- 1.
- 2.



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INDEMNITY BOND

(Non-Judicial Stamp Paper of Rs. 300/-)

KNOW ALL MEN BY THESE PRESENTS that we, Messer's _____ (hereinafter called "the Contractor" which expression shall, where the context so admits, include their heirs, executors, administrators and legal representatives, successors and permitted assigns) are hereby held and firmly bind unto the Gujarat Energy Transmission Corporation Ltd (hereinafter called "the GETCO" which expression shall, where the context so admits, include its successors and assigns) to refund the full amount of materials supplied by the GETCO under the terms and conditions of A/T No. _____

_____ Dated _____ against any loss damage or deterioration of whatsoever nature occurs to said materials supplied by the GETCO and which are in the custody of the contractor at their works site, on behalf of the GETCO, at _____ (name of S/S / line) _____ and /

or if any of the said materials, when inspected by any officer authorized by the GETCO in this behalf, is found to be damaged, lost, deteriorated in quality or quantity, the contractor hereby agrees to bind himself to indemnity and at all times keep indemnified the GETCO against all loss, damage and deterioration to the any material supplied by the GETCO during his custody and shall pay in cash on demand from the GETCO within 30 days the market value of such materials which is lost, damaged or deteriorated in full to the GETCO and shall also hereby authorize the GETCO to deduct the said sum from any sum due to the contractor or any sum which may at any time become due to the contractor under the above referred contract or any other contract entered into by the contractor with the GETCO.

AND WHEREAS the contractors do hereby agree to be responsible for the safe custody and protection and preservation of the said materials against all risks (excluding war risks) and against loss, damage and deterioration of whatsoever nature in respect of the said materials while it remains in the custody and possession of the contractor.

AND WHEREAS the said materials shall at all times be open for inspection by any officer authorized by the GETCO

Now the conditions of the above written bond are such that the contractor shall pay the full amount forthwith to the GETCO in the event of loss, damage or deterioration or whatsoever except due to circumstances arising out of war in respect of the materials supplied by the GETCO and shall fully and effectually indemnify and keep indemnified to the GETCO against such loss, damage and deterioration.

The contractor shall keep the said materials open at all times for inspection by the officers authorized by the GETCO and produce at any time when demanded.

THE WITNESS WHERE OF: We the
Said M/s. _____

(Signature of contractor)

(Seal of Firm)

hereto signed at _____

this day _____

In the presence of

1. _____ Name _____

_____ address _____

(Signature)

2. _____ Name _____

_____ address _____

(Signature)



PROFORMA FOR CONTRACT AGREEMENT

(Non-Judicial Stamp Paper of Rs. 300/-)

This Agreement is made at _____ on the _____ day of _____ in the Christian Year Two thousand twenty one between M/s. _____ (address of office) _____ (hereinafter referred to as "THE CONTRACTOR" which expression shall unless excluded by or repugnant to the contract include its successors or permitted assigns) of the ONE PART and the Gujarat Energy Transmission Corporation Ltd, having their Head office at Vidyut Bhavan, Race Course, Baroda 390 007 (hereinafter called "The GETCO" which expression shall unless excluded by or repugnant to the context include its successors or assigns) of the other part.

WHEREAS the aforesaid GETCO has accepted the tender of the aforesaid contractors for

_____ as per GETCO's Order No. _____ hereinafter called "the works" and more particularly described and enumerated or referred to in the specification, terms and conditions prescribed in the order letter, covering letter and other letters and schedule of price which for the purpose of identification have been signed by Shri _____ on behalf of the contractors and by _____ on behalf of the GETCO, a list whereof is made out in the Schedule hereunder written and all of which said documents are deemed to form part of this contract and included in the expression "The works" wherever herein used, upon the terms and subject to the conditions hereinafter mentioned.

AND WHEREAS THE GETCO has accepted the tender of contractors for the construction of the said works for the sum of Rs. _____ Rupees (_____) upon the terms and subject to the conditions herein mentioned.

NOW THIS AGREEMENT WITNESSESS AND IT IS HEREBY AGREED AND DECLARED THAT.

1. The contractors shall do and perform all works and things in this contract mentioned and described or which are implied therein or there from respectively or are reasonably necessary for the completion of the works as mentioned and at the times, in the manner and subject to the terms and conditions and stipulations contained in this contract, and in consideration of the due provision, executions, supply and completion of the works agreed to by the contractor as aforesaid the Board doth hereby covenant with the contractor to pay all the sums of moneys as and when they become due and payable to the contractors under the provisions of the contract. Such payment to be made at such times and in such manner as is provided by the contract.
2. The conditions and covenants stipulated here-in-before in this contract are subject to and without prejudice to the rights of the Board to enforce penalty for delays and / or any other rights whatsoever including the right to reject and cancel on default or breach by the contractor of the conditions and the covenants as stipulated in the general conditions, specifications, forms or tender schedule etc. attached with GETCO's Order No. _____.

The contract value, extent of supply & erection works, delivery dates, specifications and other relevant matters may be altered by mutual agreement and if so altered shall not be deemed or construed to mean or apply to affect or alter other terms and conditions of the contract and the general conditions and the contract so altered or revised shall be and shall always be deemed to have been subject to and without prejudice to said stipulation.



SCHEDULE

List of documents forming part of the contract:

- 1) GETCO's Tender Specification No. _____ and contractor's offer opened on dated ____/____/2019
- 2) GETCO order No. _____ Dtd. _____
- 3) Contractor's acceptance of order vide letter no. _____.
- 4) Contractor's Partnership Deed Dtd. _____.
- 5) Contractor's Power of Attorney / Board Resolution authorizing person to sign on behalf of Firm.

In witness whereof the parties here to have set their hands and seals this day and month, year first above written.

- 1) Signed, sealed and delivered by

(Signature with name, Designation and official seal)

For and behalf of M/s. _____ (Signature)

Address: _____

In the presence of (Full Name, Address and Signatures)

- i. _____ (Signature)

- ii. _____ (Signature)

- 2) Signed, sealed and delivered by

(Signature with name, Designation and official seal)

For and on behalf of Gujarat Energy Transmission Corporation Ltd.,

In the presence of name, Full address and Signature:

(1) _____

(2) _____



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NON JUDICIAL STAMP PAPER OF RS. 300/- (Stamp Paper Validity Six months)

FORM OF BANKER'S UNDERTAKING

**[For Performing Guarantee (PBG) towards execution / supply Period and Guarantee/Warranty Period
 As per Commercial Terms and Condition of Tender]**

To,
 The Superintending Engineer
 Gujarat Energy Transmission Corporation Ltd,
 Circle office,
 Gondal.

BG. No. _____
 Issue Date _____
 Expiry Date _____
 Amount _____

We, _____ (Name of the Bank and Address of the Branch giving the Bank Guarantee) having our registered office at _____ (Address of Bank's registered office) hereby give this Bank Guarantee No. _____ Dated _____ and hereby agree Unequivocally and Unconditionally to pay immediately on demand on writing from the beneficiary Company **Gujarat Energy Transmission Corporation Ltd** or any officer authorized by it in this behalf any amount up to and not exceeding Rs. _____ (Amount of performance Guarantee toward execution / supply period), (Rupees _____ (in words)) to the said **GETCO** on behalf of M/s _____ who have entered into a contract for the supply/works specified below
 LOA No _____ dated _____

This agreement shall valid and binding on this Bank up to and inclusive of _____ (Date of validity of the Bank Guarantee) and shall not be terminable by notice or by change in the constitution of the Bank or the firm of Contractors / Suppliers or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alteration made, given conceded or agreed, with or without our knowledge or consent. By or between parties to the said within written contract.

Notwithstanding anything contrary contained in any law for the time being in force or banking practice, this Guarantee shall not be assignable, transferable by the Beneficiary **GETCO**. Notice or invocation by any person such as assignee, transferee or agent of beneficiary shall not be entertained by the Bank. Any invocation of the Guarantee can be made only by the beneficiary directly.

NOTWITHSTANDING anything contained herein before, our liability under this guarantee is restricted to Rs. _____ (Rupees _____ only).

Our guarantee shall remain in force until _____ (Date of validity of the Bank Guarantee). **Unless demands or claims or invocation under this Bank Guarantee are made to Bank Branch located at Gondal**.....in writing on or before _____ (Date of validity of the Bank Guarantee), all rights of Beneficiary under this Bank Guarantee shall be forfeited and we shall be released and discharged from all liabilities there under

Place:
 Date:

**Please Mention Here Complete Postal
 Address of the Bank with Branch Code,
 Telephone and Fax nos**

**Signature of the
 Bank's Authorized Signatory
 With Official Round Seal**



GENERAL TECHNICAL CONDITION:

1. The erection work should be carried out according to the specification and as per instructions and programmed laid out by the Engineer in-charge of the work.
2. **The contractor should employ as Supervisor with sufficient qualification and experience who can supervise the execution of work throughout. He should always be present on the site.**
3. The GETCO will supply steel section required for earth mesh/ structure, G.I. / MS Strip required for completion of earthing work. The wooden charcoal, salt, black cotton soil, G.I. Pipe, C.I Pipe, nuts and bolts and lugs etc required for completion of earthing work shall be arranged by the contractor. However scope for supply of material as per schedule-B shall be final and binding to agency.
4. Cutting, bending, welding, brazing, wherever necessary is to be done by the contractor.
5. Erection of panel board includes shifting in control room – bolting with side panel – leveling of panel with proper grouting as per instruction of Engineer-in-charge.
6. The contractor has to carry out all the works in accordance with revised and latest provision under I.E. Rules Act made there under and as per instruction of Engineer in charge.
7. Contractor has to co-ordinate E.I.C. for planning of outage and work schedule thereof, so as to complete all the planned work in outage. Contractor has to deploy adequate manpower accordingly.
8. It will be bidder's sole responsibility for erection of complete line/equipment in all respect as per the provision of I.E. Rules and procedures and as per the instruction of Engineer in charge.
9. In addition to the general of the construction particular, attention shall be paid to the final finish and every effort shall be made to have the entire work contented with standard of workmanship by the contractor.
10. **Electricity Rules:** -All the works shall be carried out in accordance with latest rules under Electricity Act.
11. **Testing:** - Complete installation shall be put to the necessary test as required and shall be got approved by Government Electrical Inspector.
12. **CONTRACTOR'S MATERIALS BROUGHT TO SITE**
 - a) The Contractor shall bring to Site all materials, including construction equipment, tools and tackles for the purpose of the works under intimation to the Engineer. All such goods shall, from the time of their being brought vest in the Owner, but may be used for the purpose of the works only and shall not on any account be removed or taken away by the Contractor without the written permission of the Engineer. The Contractor shall nevertheless be solely liable and responsible for any loss or destruction thereof and damage thereto.
 - b) After the completion of the Works, the Contractor shall remove from the Site under the direction of the Engineer the materials such as construction equipment, erection tools and tackles, scaffolding etc. with the written permission of the Engineer.
13. **FIELD OFFICE RECORDS**

The Contractor shall maintain up to date copies of all drawings, specifications and other Contract Documents and any other supplementary data complete with all the latest revisions thereto. The Contractor shall also maintain in addition the continuous record of all changes to the above Contract Documents, drawings, specifications, and supplementary data, etc. effected at the field and on completion of his total assignment under the Contract shall incorporate all such changes on the drawings and other Engineering data to indicate as installed conditions of the equipment furnished and erected under the Contract. Such drawings and Engineering data shall be submitted to the Engineer in required number of copies.



14. Contractor shall purchase all brought out items as per schedule-B with taking prior approval from Executive Engineer (Const), GETCO, Rajkot. Any item without approval shall not be permitted and GETCO shall not be responsible for accept such items.

15. DISCIPLINE OF WORKMEN

The Contractor shall adhere to the disciplinary procedure set by the Engineer in respect of his employees and workmen at Site. The Engineer shall be at liberty to object to the presence of any representative or employee of the Contractor at the Site, if in the opinion of the Engineer such employee has misconduct himself or is incompetent or negligent or otherwise undesirable and then the Contractor shall remove such a person objected to and provide in his place a competent replacement.

16. CONTRACTOR'S FIELD OPERATION

- 1 The Contractor shall keep the Engineer informed in advance regarding his field activity plans and schedules for carrying-out each part of the works. Any review of such plan or schedule or method of work by the Engineer shall not relieve the Contractor of any of his responsibilities towards the field activities. Such reviews shall also not be considered as an assumption of any risk or liability by the Engineer or the Owner or any of his representatives and no claim of the Contractor will be entertained because of the failure or inefficiency of any such plan or schedule or method of work reviewed. The Contractor shall be solely responsible for the safety, adequacy and efficiency of plant and equipment and his erection methods.
- 2 The Contractor shall have the complete responsibility for the conditions of the Work-site including the safety of all persons employed by him or his Sub-Contractor and all the properties under his custody during the performance of the work. This requirement shall apply continuously till the completion of the Contract and shall not be limited to normal working hours.

17. PROGRESS REPORT

The Contractor shall furnish three (3) copies each to the Engineer of progress including if any, photographs of the work done at Site. The monthly progress report detailing-out the progress achieved on all erection activities shall highlight comparison to the schedules. The report shall also indicate the reasons for the variance between the scheduled and actual progress and the action proposed for corrective measures, wherever necessary.

18. MAN-POWER REPORT

The Contractor shall submit to the Engineer, on the first day of every month, a man hours schedule for the month, detailing the man hours scheduled for the month, skill-wise and area-wise.

19. Contract Quality assurance:

The Bidder shall include in his proposal the Quality Assurance Programme containing the overall quality management and procedures which he proposes to follow in the performance of the Works during various phases. At the time of Award of Contract, the detailed Quality Assurance Programme to be followed for the execution of the Contract will be **mutually discussed and agreed and such agreed Programme shall form a part of the Contract.**



SPECIAL TECHNICAL CONDITION:

- 3 All erection work is to be carried out as per the manual of OEM (Original equipment manufacturer), FQP, approved drawing, specification and instruction of E.I.C.
- 4 All equipment erection charges are inclusive of shifting dragging handling of the respective equipment up to S/S erection site from its S/S site store.
- 5 Contractor has to ensure safe shifting dragging erection of all equipment to comply with labour laws I.E. rules etc.
- 6 All erection charges are inclusive of fixing of clamp connectors, all necessary accessories to the respective equipment.
- 7 Transformer erection charges cover shifting, dragging, handling etc. for its bushings, radiators, conservator tank and allied accessories and oil filling, filtration (if require).
- 8 All erection work includes erection insurance to be arranged by the contractor at his cost.
- 9 All the required tools and tackles like compression jointing machine for conductor, earth wire, cutting machine, welding set, drill machine, etc are to be arranged by the contractor at his cost.
- 10 Contractor should complete transportation within one job as per schedule if applicable. No extra payment will be given in any case other than this job.
- 11 If filtration of transformer is required in any case the filter machine shall be arranged by Contractor at his own cost.
- 12 Earthing pit activities should be done in such a way in presence of GETCO supervisor that final earthing pit resistance should be record as per standard. All expenditure like sufficient watering to maintain earth resistance up to the mark should be born by contractor.
- 13 All the brought out items get to be approved from DE/EE invariably for its specifications and quantity to be order out only as per instruction of EIC looking to the site condition. Payment will be given for those quantity for which clearance given from EIC and not for those which is mentioned in A/T
- 14 The executions of bore are to be carried out as per soil strata in consultation with E.E.
- 15 The Classification of hard rock strata should be got approved from E.E. invariably.
- 16 Contractor has to make arrangement for site engineer and skill labours for maintaining all activities and records as per FQP. Also assisting to staff/Engineer in charge to take IR values, Earth pits values, name plate detail, oil samples etc all activities relative to commissioning of project.
- 17 Contractor has to make arrangement for skill labours for assisting to commissioning engineer, PLCC staff/engineer, SMS/CMS/CRM/DCRM/testing staff/Engineer, Staff of as an when require as per instruction of Engineer in charge.
- 18 After completion of project successful bidder has to submit all the records like battery charging report, control wiring schedule, earth pit lay out, earthing grid layout, power cable lay out, yard light pole and ckt lay out etc in hard and soft copy for handing over the project.
- 19 For Colony & Yard lighting and Control Room Industrial Electrical wiring works the rates quoted shall be inclusive of providing and fixing / Installation ,testing and commissioning of complete Control Room lightings, Ceiling Fans, Exhaust Fans etc.
- 20 All items / materials shall be installed / erected in accordance with specified manuals /technical guide lines of the manufacturer and as per instruction of EIC.
- 21 Cable laying, Circuit distribution and Fixture fixing shall be carried out as per GETCO Standard Drg. No. GETCO/E/06S-STD/S-013 (R0) Sheet 1 to 3 of 3 and as per Instruction of Engineer In charge.



- 22 Control Room Wiring, Fixing of fixture, Ceiling fan & Exhaust fan etc shall be carried out as per Standard Drawing No. GETCO/E/6S-STD/S-015 (R0) Sheet No 1 & 2 of 2. and GETCO/E/6SSTD/S-013 (R0) Sheet No 1 of 3 and as per instruction of Engineer In charge.
- 23 For entire control Room, Office & store etc. building wiring is to be done by Providing and fixing of ISI Marked GI conduit pipes 20mm dia. & 1.6 mm wall thickness size (Minimum Size) and PVC insulated stranded copper wire of FENOLEX/ANCHOR make as per relevant IS.
- 24 Total tilting angle for the flood light luminaries provided on pole is considered as maximum of 45 degree, looking to the tilting angle 20 degree available with luminaries it self & supporting pipe should be fabricated & welded accordingly. Also arm for fixing of Flood light luminaries shall be fix as per required angle & direction as per instruction of EIC.
- 25 EE/DE will decide the make of luminaries, fan, cable, MCB, Switches etc. and same is to be inspected at authorize depot.
- 26 Yard light pole should be inspected at the cost of contractor.
- 27 Successful bidder has to appoint site engineer to maintain site register and FQP as per ISO.
- 28 All work should be done according to ISO & FQP and all require documents including filled FQP, testing results, etc should be submitted while handing over the project.
- 29 The rates are with supply of cement by the contractor.
- 30 Control wiring must be executed as per standard Ferruling philosophy circulated by GETCO letter No;- CE(Engg)/PROT/V/Circular/346 dated. 14.03.2014. wiring terminations are to be made with standard Ferruling philosophy only.Only machine printed ferrules (Black letters on white tube) shall be utilized for each and every work.
- 31 Contractor has to make all required mechanical and electrical setting of all the isolators by deputing skill technician and offer for final inspection of all isolators.
- 32 All the brought out supply items shall be provided only specific make mention in schedule-B. No any alternative make shall be allowed.
- 33 Contractor has to submit the planning bar chart before starting the work in kickoff meeting.
- 34 Contractor has to complete all the work related to this title in stipulated outage period as per instruction of EIC
- 35 After successful completion / commissioning of work awarded to agency in all respect, security arrangement shall be made by GETCO subjected to advance intimation at least 15 days before work completion. Till security arrangement by GETCO, contractor is responsible for security of project.
- 36 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.
- 37 All work should be done according to ISO & FQP and all requier documents including filled FQP, testing results, etc should be submitted while handing over the line
- 38 While calculating the weight of stub-setting, the weight of stub, cleat & templates shall also be added in stub weight.
- 39 Red oxide & zinc rich paint shall be applied after tack welding of nuts.
- 40 The rate indicated includes taking delivery of all stringing material Board's stock at destination keeping them in safe custody and transporting the same to erection site
- 41 Earthing pit activities should be done in such a way in presence of GETCO supervisor that final earthing pit resistance should be record as per standard. All expenditure like sufficient watering to maintain earth resistance up to the mark should be borne by contractor.



- 42 After completion of project successful bidder has to submit all the records like Final as build check survey, profile, clearance, foundation register, soil classification record, stringing chart, material inventory sheet etc in hard and soft copy for handing over the project.
- 43 **The successful bidder shall depute qualified and experienced site engineer during the work execution by contractor. In case the contractor doesn't engage qualified and experienced site engineer having qualification of BE/Diploma (Electrical) from recognized university, penalty of ₹ 10000/- (plus GST as applicable) per month from RA/Final bill shall be deducted and it will be non-refundable.**
- 44 **To achieve target given by competent authority / GOG, successful bidder has to start & execute the work as per availability of material at GETCO's store & progress of Civil work. It may be in piecemeal manner. No any IDEAL charges will be paid if work front is not clear due to civil work / non availability of material. Successful bidder has to claim only Time Limit Extension for such type of cases if arise with detail justification along with documentary proof.**
- 45 **Successful bidder has to attend the Kick off / progress review meeting at any venue arranged by GETCO by deputing conversant, authorized representative / site engineer with all records for better planning & to avoid any delay in project completion. No any Extra charges will be paid for attending meeting.**
- 46 **Successful bidder has to provide security from date of commencement upto forward charge /back charge of S/S and upto 100% electrical work completion.**
- 47 **Successful bidder has to make necessary arrangement regarding any pandemic related precautionary measures issued by Govt/GUVNL/GETCO. No any Extra charges will be paid.**
- 48 **Successful bidder has to execute 11Kv Cable Termination Box related work as well as 11Kv Panel Board installation in presence of Project in charge as well as Transmission Supervision.**
- 49 **Successful bidder has to credit empty steel drum of cable and conductor to GETCO store.**
- 50 **Successful bidder has to utilize 11Kv cable kit provided by OEM along with panel board. Required lugs will be provided by GETCO in case of any change in cable size.**



special Technical Condition for Yard lighting & C.R.Building Electrification Work

1. Laying and termination of 415 V, PVC armored power cable from lighting panel to the junction box at the bottom of the gantry to lighting fixtures receptacles & looping from one gantry to other shall be buried underground. Contractor shall quote the unit price of cable erection separately. Cables glands and lugs are included in contractor's scope.
2. Laying & termination by 415 V, PVC armored power cable from street lighting panels to street lighting poles and power cables for looping from one gantry to gantry shall be in the scope of lighting contractor. These cables shall be buried underground. Cable glands and lugs are included in contractor's scope.
3. Materials & components not specifically stated in this specification & which are necessary for satisfactory installation & operation of the lighting system shall be deemed to be included in the scope of the specification.
4. The design manufacture & performance of equipment shall comply with all currently applicable statues, regulations and safety codes in the locality where the equipment will be installed. Nothing in this specification shall be construed to relieve the bidder of these responsibilities.
5. Unless otherwise specified, equipment offered shall confirm to latest applicable Indian and IEE standards. Equipments complying with one another authoritative standards such as British, U.S.A., V.D.E., etc., will also be consider if it insures performance equivalent of supplier to Indian Standards. In such cases the bidder shall clearly indicate the standard adopted and furnish a copy of the latest English version of the standards along with the tender should there be any dispute of design, work shall be followed.
6. Indian Standards as per latest amendment should be followed :-
 - (i) IS : 1913 -General & Safety requirement for Electric Lighting Fittings.
 - (ii) IS : 3523 -Water Proof Electric Lighting Fittings.
 - (iii) IS : 4012 -Dust Proof Electric Lighting Fittings.
 - (iv) IS : 4013 -Dust Tight Electric Lighting Fittings.
 - (v) IS : 1777 -Industrial Lighting Fittings with Metal Reflectors.
 - (vi) IS : 3287 -Industrial Lighting Fittings with Plastic Reflectors.
 - (vii) IS : 2493 -Well glass Lighting Fittings for use underground in mines.
(Non flamp proof type).
 - (viii) IS : 1947 -Specification of Flood Light.
 - (ix) IS : 2149 -Luminaries for Street Lighting.
 - (x) IS : 2183 -High Pressure Mercury Vapor Lamps.
 - (xi) IS : 1534 -Ballasts for use in Fluorescent Lighting Fittings (PART-I).
 - (xii) IS : 1569 -Capacitors for use in Fluorescent Lamps.
 - (xiii) IS : 2215 -Starters for Fluorescent Lamps.
 - (xiv) IS : 2713 -Tubular Steel Poles.
 - (xv) IS : 5133 -Steel & Cast Iron Boxes.
 - (xvi) IS : 2629 -Hot Dip Galvanizing of Iron & Steel.
 - (xvii) IS : 694 -PVC Insulated Cables for Working Voltage up to & including 1100 V
 - (xviii) IS : 732 -Code of practice for Electrical Wiring Installation (System Voltage not exceeding 650 Volts.)
 - (xix) IS : 3043 -Code of Practice for Earthing.
 - (xx) Indian Electricity Act.
 - (xxi) Indian Electricity Rules.
7. The Standards mentioned above are available from Indian Standards Institution.Manek Bhavan,9, Bahdoor Shah Zafar Marg, New Delhi – 110 001.
8. All Sodium Lamps fixtures shall be complete with accessories like balasts, Ignitors,Power Factor Improvement Capacitors etc. This shall be mounted as possible in the fittings assembly only. If these can not be accommodated inside, then a separate metal enclosed box shall be included to



accommodate the accessories and in addition with fuse & terminal block suitable for Loop – In – Loop – Out connections. Outdoor type Weather proof box. They shall indicate starting time of this lamps to get full light out put. Curves for starting characteristics and variation of lamp characteristics with varying supply voltage etc to be furnished by the bidders.

9. Each lighting fixture shall be provided with and earthing terminal suitable to connection to 8 SWG G.I. Earthing Conductor.

10. Cable Termination Box:-

1. Cable Termination Box for gantry structures, shall be completely weather proof Confirming to IPW 55 and provided with lockable door & HRC fuse mounted on fuse Carrier and fuse base assembly. The terminal shall be stud type and suitable for two nos. 4 mm² cable necessary arrangement for glanding cable along with supply of gland are included in tender scope.
2. The bolts, nuts & screw required for erection is to be supplied by the contractor at His own cost.
3. Outside and inside the cable terminal boxes shall be supplied by the contractor at his colours.
4. Finished painted appearance on equipment shall aesthetically pleasing appearance, free from dots and uneven surface.
5. Touch up paint at site shall have to be done, if necessary.

11. STREET LIGHT POLES: -

1. The structure/pole & wall mounted G.I. pipe post shall be supplied with one “SINTEX” make SMC junction box described in Schedule ‘B’ heavy duty bakelite connector, brass Neutral link, rewire able fuse, rubber gaskets etc.
2. The junction box should be provided with proper bracing arrangement on structure/ wall by means of G.I. strips. The junction box should have two holes at the bottom to accommodate two siemens type tinned brass cable glands of suitable size for cable to be used. The cable glands of approved make should be supplied by the contractor.
3. The wall mounted G.I. Pipe post shall be painted with one coats of Anti -Corrosive oxide primer & two coats of Aluminum paint. as per instruction of Engineer – In – Charge.

12. INSTALLATION OF POLES AND WALL MOUNTED G.I. PIPE POST: -

The G.I. Pipe post shall be fixed on the face of wall at suitable height, by means of 3 pairs of wall clamps, nuts and bolts.

13. CABLE WORK: -

PVC Insulated PVC outer and inner sheath, armoured copper conductor cables suitable for 1100 Volts A.C. as per IS : 1554 (Part – I – 1964) of size as specified in schedule of quantities. The cables should be approved make, any of following, Unicable C.C. / Unistrar / Gloster / I.C.C. or equipment, subject to approval of Competent Authority.

14. GENERAL PRECAUTIONS FOR HANDLING OF CABLES: -

1. Before laying cables there shall be tested for physical damage, continuity, absence of cross phasing, insulation resistance to earth and between conductor, insulation resistance tests shall be carried out with 500 / 1000 volt megger.
2. The cable shall be supplied for site wound on wooden drum as far as possible. For smaller length and sizes cables in properly coiled from can be accepted. The cables shall be laid by mounting the drum of cable on drum shall be mounted on a properly supported axle and the cable laid out from the drum in no case the cable will be rolled on as it produces kinks which may damage the conductor.
3. Sharp bending and kinking of cables shall be avoided. The bending radius for PVC insulated & sheet armoured cables shall not be less than 10 ‘D’, where ‘D’ is overall dia. Of the cable armoured cable shall never be concealed in roads with G.I. Pipe conductor R.C.C. pipes, required pipes will be



supplied by the contractor. After drawing cable, the end of the pipe shall be sealed with cotton/bituminous compound

15. LAYING OF CABLES (UNDERGROUND SYSTEM): -

1. Cables shall be so laid in ground that, these will not interfere with other underground structures. All water pipe sewage lines or other structure which become exposed by excavation shall be properly supported and protected from injury until the filling has been rammed solidly in places under and around them. Any Telephone or other cables coming in the way are to be properly shielded / diverted as directed by the Engineer – In – Charge. Cables shall be laid at a minimum depth of 750 mm from ground level. Excavation will generally be in ordinary alluvial soil. The width of the trench shall be sufficient for laying of required number of cables. The surface of the ground after back filling the earth, shall be made so as to confirm in all respects to the surrounded ground and to the entire satisfaction of site Engineer.
2. For wall mounted fixture the cable shall be laid in wall, by using grooved wooden base block G.I. saddles, screw etc.
3. Joints in the cable throughout its length of laying shall be avoided as far as Possible and if unavoidable, prior approval of site Engineer shall be taken. If allowed proper straight through epoxy joint shall be made without any additional cost. A loop of one meter of each length of cable shall be left near each street light pole. Also a loop of one meter shall be provided on both ends of the cable. This additional length shall be used for fresh termination in future. Cable for this loop shall be paid for supply & laying

16. TERMINATION AND JOINTING OF CABLES: -

On both ends of cables suitable size brass heavy duty cable glands shall be used before it enters junction box/ main LT panel/ joint box etc. armour of cable shall be connected to earth point.

17. EARTHING TO G.I. PIPE/ STRUCTURE/POLES & FIXTURE: -

1. Each fixture structure/wall and G.I. Pipe post shall be earthed by coil type earthing. 10 SWG G.I. wire coil (10 cms. Dia x 45 Cms. Length) shall be buried in specially prepared Earth pit of depth 1.5 Mtr. Necessary G.I. wire including coil, salt (10 KGs. per pit) & Charcoal/ coke (10 Kgs. per pit) required for earthing, shall be supplied by the Contractor. The upper end of G.I. earthing wire shall be fixed on each pole and G.I. pipe post by means of 2 Nos. of 8 mm.dia. Brass bolts and nuts with washer as shown in drawing shall be made available with pole. There should not be any joint of G.I. earth wire, in between earthing terminal of pole and bottom end of coil.
2. The common earthing shall be done for two post – top luminaries installed on main gate of the switch yard for measurement recording. The quantity will be considered as ONE only and no extra payment will be made, for common earthing.

18. INSTALLATION STREET LIGHTING LUMINAIRES: -

This include fixing of street light fitting complete with accessories and lamp on The pole/ bracket, connecting it with 2 x 2.5 sq. mm (710.67 mm) Dia. PVC insulated and PVC sheathed copper flexible conductor and commissioning the same.



19. INSTALLATION POST TOP LUMINAIRE: -

This includes providing & installation of post top lantern complete with all accessories & lamp connection it with 2 x 2.5 sq. mm. (710.67 mm Dia) PVC insulated & PVC sheathed copper flexible conductor testing & commissioning the same.

20. All the fitting required for fixing the luminaries, such as reducer, coupler, gasket & all types of hardware shall be provided by the contractor himself. All tools and Tackles required for the entire work shall also be arranged by the contractor. In any case Board will not provide any such facility, whatever.
21. All materials shall be got approved from E.E./D.E. Construction, Rajkot before commencement of work. If there is any dispute regarding interpretation of specifications. The decision of E.E. Construction, Rajkot shall be final and binding to the contractor.

22. SPECIFICATIONS: -

The fitting will have to be supplied and the work will have to be carried as per specification attached herewith and the same should be got approved by the Executive Engineer, Rajkot. The successful bidder has to follow strictly standard design of illumination for 66 KV Sub-Station as per circular No: CE(Project)/SE(Proj)/V/4858 Dtd: 24-06-2008 issued by C.E.(Pro) details are as under.

1. GETCO Technical Specification Illumination
2. Annexure -I (Fitting detail of Control Room).
3. Annexure-II (Luminance details for switch yard area).
4. Standard drawing for switchyard Illumination No: GETCO/E/06S-STD/S-013 (Sheet 1 To 3).
5. Standard drawing for Control Room No: GETCO/E/06S-STD/S-015 (Sheet 1 & 2).

If any change in quantity as well as specification will be intimated well in advance before commencement of work & accordingly the successful bidder has to carry out the work & procure the required items.



Technical Specification

Erection of equipment

1. All the equipment to be opened carefully and any damage during opening of equipment cases or during shifting at erection places will be at Contractor's cost.
2. Before erection of equipment it should be cleaned properly or if required may be washed as per instruction Engineer-in-charge.
3. Before erection initial testing of equipment whatever is required is to be done with the help of Engineer-in-charge for which no any extra charge will be paid.
4. Arrangement of erection is to be got inspected by Engineer-in-charge before erection of equipment and its structure.
5. No any extra charges are to be paid if any equipment is required to change its position as per requirement after erection.
6. Within the sub-station yard no any extra shifting charge will be paid to the Contractor for any equipment.
7. The detailed drawings of equipment can be seen from this office/concerned field/division during any working day and the equipment which are to be erected can also be seen physically at Wankaner/ Gondal store or at store specified by the EIC during any working day and time.
8. The erection work should be carried out according to the specification as per instructions and programmed laid out by the Engineer in charge. Contractor has to ensure safe shifting and erection of all accessories/ equipment as per standard norms.
9. The contractor has to arrange for minor fabrication (if required) at free cost & follow all labour laws I.E. Rules safety rules, Insurance rules, GETCO rules at his risk & cost.

Erection of 66 kV GI structures

1. All the structures are to be erected in line level and in plumb as per instruction of Engineer-in-charge.
2. If any structure falls after erection but before grouting then it will be responsibilities of Contractor to get replaced damaged members at his cost.
3. After taking delivery of the structures from GETCO stores, contractor will be fully responsible for safe custody and theft of which will be at Contractor's cost till completion of work.
4. During erection due care is to be taken for any damage to any equipment inside the S/S yard and any damage to the equipment is at Contractor's Cost.
5. Required tools, tackles, ropes, spanners and skilled labours etc. are to be arranged by the Contractor at his cost.
6. All bolt and nuts should be fixed properly and spring washer, flat, washer to be used as per drawing.
7. If any minor fabrication / modification is required during erection to the structure i.e. holes, cutting, which is to be carried out by the Contractor at free of cost.
8. Any loose materials which obstacles during the erection are to be shifted by the contractor for which no extra charges are to be paid.

Sub-station structure and equipment earthing

1. Earthing pits are to be excavated as per standard drawing and as per instruction of Engineer-in-charge of Project.
2. Generally, in rocky / soft rock strata mesh type earthing are to be provided from scrap /flat which will be given to the contractor at free of cost for which account to be submitted and necessary fabrication welding, joining with pipe is to be done by the contractor.
3. Back filling and watering of earthing pits is to be done in the presence of GETCO Supervisor only.



4. Contractor has to arrange watering in such way that resistivity of each pit should come to the required limit.
5. For laying of earthing strip inside the sub-station yard for equipment and s/s structure contractor has to be carry out as per the specification is to be laid properly by making welding joint and bolt wherever is required.
6. In case of hard strata contractor has to fill-up earthing trench after laying of strip by black cotton soil.
7. All earthing joints are to be welded with structure of equipment by means of proper welding and bolt with structure and with the earthing pits. All the welded joints are to be painted with Aluminum Paint.
8. For earthing GETCO will supply only G. I. Strip & Scrap for mesh, remaining materials such as salt-cock pipe etc. is to be supplied by the contractor.
9. All earthing joints including the earthing trench are to be made over lapped with earthing strip.
10. The earthing mat laying should be done as per approved drawing.
11. Arrangement of earth pit (check pit) & pipe earthing should be done as per drawing No: GETCO/E/06S/STD/P-011. (2 sheet)
12. Equipment earthing should be done as per drawing No: [GETCO/E/06S/STD/P-012 \(sheet 1 to 24\).](#)

Bus-bar and earth wire stringing

1. For stringing of conductor any size or any type is to be utilized which must be properly cut after taking correct measurement.
2. Conductor to be spread in a straight condition and no any twist is permitted if any twist is there then same is to be replaced by the Contractor at his cost.
3. No any scratches should be allowed during spreading bus conductor.
4. All disc insulators are to be cleaned and all the 'W' pin must be ensured before fixing to the conductor.
5. Before taking the tension of bus conductor on gantry beam, beam tension plate bolt, nuts to be checked and tightened. No over tension is to be allowed during tensioning of conductor and sag of conductor is to be kept as per instruction of Engineer-in-charge.
6. Wherever spacers are required, they should be provided at regular interval as per instruction of Engineer-in-charge.
7. Jumpering is to be done as per standard practice however it must be done with taking proper care of clearance between conductor and column.

Laying of control cables and termination

1. Before laying of control cable proper schedule of cable showing length of each cables is to be prepared and is required to be approved by Engineer-in-charge.
2. Cable should be laid in such a way that no any twisting of cables is to be found or no cable should be cut under length or over length.
3. All cables are to be laid and clamped inside the cable trench as per the instruction of Engineer-in-charge.
4. Cable markers should be provided nearby termination at both ends.
5. Wherever there is no cable trench for small equipment and having a small length about 10 meters, cable should be laid by providing half round gutters for above 10 meter. If half round gutter is required same will be supplied by the GETCO at free of cost.
6. For termination of control cable required size of cable glands copper lungs ferrules tap, sleeves, etc. are to be supplied by the Contractor at his cost.
7. All cables terminated inside the panel / equipment with giving proper shape and clamping and taping no any cable leads to be got earthed.



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Email: setrgondal.getco@gebmil.com
Web site: www.getcogujarat.com



8. Complete cable schedule in triplicate is to be given by the contractor with giving details of each termination of cables from one end to other end with giving cable number and size of cable and this to be approved by Engineer-in-charge. For preparing the schedule necessary drawing will be provided by the GETCO. And contractor will be paid extra charges for preparation of schedule which is to be approved by Executive Engineer.
9. During testing of control wiring of panel / equipment, contractor has to witness the job and any changes is required that is to be done by the contractor without any charge.
10. Any fabrication is required inside the kiosk box / panel / equipment for fixing of glands and clamps is to be done by the contractor at his cost.
11. The Control wiring work should be carried out according to the specification and as per instructions and programmed laid out by the Engineer-in-charge of the work.
12. The Control wiring work should be commenced immediately from the date of receipt of instructions from office and should be completed within thereafter.
13. Erection of Battery Charger includes shifting in control room – bolting with side panel – leveling of Battery Charger with proper grouting as per instruction of Engineer-in-charge.
14. **GETCO has adopted “Maintenance free earth electrode and ground improving material “As per technical specification for maintenance free treated earth pit. Hence the successful bidder shall have to purchase the “Maintenance free earth electrode and ground improving material from GETCO approved vendors only. The specification/drawing etc. shall be issued to the successful bidder by field office/division office.**



TECHNICAL SPECIFICATIONS-(PART-II)

PRINCIPAL TECHNICAL PARAMETERS for Supply, Installation & commissioning of CCTV camera surveillance system at various 66 KV to 400 KV class Substation of GETCO.

Sr. No.	Item Description	Specifications	TECHNICAL SPECIFICATIONS
1	IP Bullet Camera 2 MP	Image Sensor:	1/2.8" 2 Megapixel progressive scan CMOS
		Min. Illumination:	Color:0.08 Lux; B/W:0 Lux 0 Lux with IR illumination ON or Better
		Lens:	Fixed F 1.2 or Better
		Day& Night:	Auto
		Wide Dynamic Range:	90dB or better
		Digital noise	Supported
		IR Range:	Min. 50 meters
		Compression Standard	
		Video Compression:	H.265 or better
		Image Resolution:	1920 x 1080
		Frame Rate:	25 to 30 fps
		Network	
		Protocols:	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP,SNMP, IGMP, 802.1X, QoS,
		Time synchronization	Auto Time synchronization of camera with NVR
		System Compatibility:	ONVIF support
		Interface	
		Communication Interface:	1 RJ45 10M / 100M Ethernet interface
		Built in memory card slot	Built-in memory card slot, support Micro SD/SDHC/SDXC, Min 128
		General	
		Operating Conditions:	0 °C ~ 60 °C, less than 95 % RH
		Power Supply:	DC12V,PoE (802.3af) / (802.3at)
		Weather Proof:	IP66



		Make	Axis: Axis Communications AB. Pelco: Pelco, Inc. Honeywell: Honeywell International Inc. Bosch : Bosch Limited Matrix Comsec: MATRIX COMSEC PVT. LTD BEL : Bharat Electronics Limited American Dynamics : Tyco Security Products Vicon: Vicon Industries Inc. Sony : Sony India Pvt. Ltd.
		Certificate	Either Bureau of Indian Standards (BIS) OR UL certificate.
		Warranty	Three years
	PTZ Camera 2 MP		
		Image Sensor:	1/2.8" 2 megapixel progressive scan CMOS
		Minimum Illumination:	Color: 0.3 Lux; B/W: 0.01Lux 0 Lux with IR illumination ON
		White Balance:	Auto, Manual
		AGC:	Auto, Manual
		WDR (Wide Dynamic	90 dB or better
		Shutter Time:	1/1 s to 1/15,000 s or better
		Day& Night:	Supported
		Digital Zoom:	16× or better
		Noise Reduction	Supported
		Focus mode:	Auto, Manual
		Lens	
		Focal Length:	4.3 mm to 129 mm or better
		Minimum Working	10 mm to 1500 mm (wide-tele)
		Aperture Range:	F1.2 to F5.0
		Pan & Tilt	
		Pan Range:	360° endless
		Tilt Range:	From 0° to 90°
		Number of Preset:	250
		Pattern:	Min-4
		Infrared	
		IR irradiation distance:	Min 150 m
		Network	
		System Compatibility	ONVIF support
		Image Resolution:	1920 × 1080
		Main Stream:	25 to 30 fps
		Image Compression:	H.265 or batter
		Communication	1 RJ45 10M / 100M Ethernet interface
		Protocols:	IPv4/IPv6, HTTP, HTTPS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, 802.1x
		Time synchronization	Auto Time synchronization of camera with NVR



		Storage:	Built-in memory card slot, support Micro SD/SDHC/SDXC, Min 128 GB
		Security Measures:	User authentication & Password protection supported HTTPS, 802.1x network authentication
		General	
		Power Supply:	24 VAC & PoE+
		Operating temperature/Humidity:	0 °C ~ to 60 °C, less than 90 % RH
		Protection Level:	IP66
		Make	Axis: Axis Communications AB. Pelco: Pelco, Inc. Honeywell: Honeywell International Inc. Bosch : Bosch Limited Matrix Comsec: MATRIX COMSEC PVT. LTD BEL : Bharat Electronics Limited American Dynamics : Tyco Security Products Vicon: Vicon Industries Inc. Sony : Sony India Pvt. Ltd.
		Certificate	Either Bureau of Indian Standards (BIS) OR UL
		Warranty	Three years
3	Network Video Recorder- 8 Ch	Software	As per attached ANNEXTURE-C
		Video/Audio Input	
		IP video input:	8 IP channels
		Two-way audio input /	1-ch, RCA (2.0 Vp-p, 1kΩ)
		Video/ Recording I	
		Interface	1 HDMI Port
		VIDEO Compression	H.265 or better
		Resolution	1920 x 1080
		Recording Resolution:	8MP, 6MP, 5MP, 3MP, 2MP
		Decoding / Playback	
		Live view / Playback:	1920×1080
		Layouts:	Simultaneously min 8 channel for 8Ch
		Hard Disk	
		SATA Port:	1 or more Sata port
		Capacity:	Port support min. 6 TB capacity for SURVEILLANC HDD
		Network	
		Incoming bandwidth:	200Mbps
		Outgoing bandwidth:	190Mbps
		USERS	Min 10 Users
		Network Interface:	1 RJ-45 port (10/100/1000) Mbps
		Network Functions:	TCP/IP, DHCP, PPPOE DNS, DDNS, FTP, SMTP, NTP, RTP/RTSP. HTTP. CIFS/NFS. UPnP
		USB Interface:	Min. 2 USB port (1x USB 3.0, 2x USB2.0)
		Alarm In	1-Ch



		Alarm Out	1-Ch
		General	
		Power Supply:	240 ± 10% VAC , 50HZ
		Make	Axis: Axis Communications AB. Pelco: Pelco, Inc. Honeywell: Honeywell International Inc. Bosch : Bosch Limited Matrix Comsec: MATRIX COMSEC PVT. LTD BEL : Bharat Electronics Limited American Dynamics : Tyco Security Products Vicon: Vicon Industries Inc. Sony : Sony India Pvt. Ltd.
		Warranty	Three years
		Certificate	Either Bureau of Indian Standards (BIS) OR UL
4	Network Video Recorder- 16 Ch		
		Software	As per attached ANNEXTURE-C
		Video/Audio Input	
		IP video input:	16 IP Ch
		Two-way audio input / Output:	1 RCA (Audio output)
		Video/ Recording I	
		Interface	1 HDMI Port
		VIDEO Compression	H.265 or better
		Resolution	1920 x 1080
		Recording Resolution:	8MP, 6MP, 5MP, 3MP, 2MP
		Decoding / Playback	
		Live view / Playback:	1920×1080
		Layouts:	Simultaneously min 8 channel for 8Ch
		Hard Disk	
		SATA Port:	1 or more Sata port
		Capacity:	For 1 SATA Port- support min. 12 TB capacity for SURVEILLANC HDD or For 2 or more SATA Port- support min. 6 TB capacity for SURVEILLANC HDD
		Network	
		Incoming bandwidth:	200Mbps
		Outgoing bandwidth:	190Mbps
		USERS	Min 10 Users
		Network Interface:	1 RJ-45 port (10/100/1000) Mbps
		Network Functions:	TCP/IP, DHCP, PPPOE DNS, DDNS, FTP, SMTP, NTP, RTP/RTSP, HTTP, CIFS/NFS, UPnP
		USB Interface:	Min. 2 USB port (1x USB 3.0, 2x USB2.0)
		Alarm In	1-Ch
		Alarm Out	1-Ch
		General	



		Power Supply:	240 ± 10% VAC , 50HZ
		Make	Axis: Axis Communications AB. Pelco: Pelco, Inc. Honeywell: Honeywell International Inc. Bosch : Bosch Limited Matrix Comsec: MATRIX COMSEC PVT. LTD BEL : Bharat Electronics Limited American Dynamics : Tyco Security Products Vicon: Vicon Industries Inc. Sony: Sony India Pvt. Ltd..
		Warranty	Three years
		Certificate	Either Bureau of Indian Standards (BIS) OR UL
5	POE SWITCH (4-Port)	Ports	
		Network Ports:	5
		PoE Port:	4, 10/100/1000 Mbps RJ45 ports
		SFP port	Min. 1 Port
		Standard	
		Network Protocol:	IEEE802.3,802.3u,802.3x, 802.3af, 802.3at
		Address Database size	Min 4k MAC Addresses
		Flow Control:	IEEE802.3x full duplex
		Power Over Ethernet	
		PoE Standard:	IEEE802.3af, IEEE802.3at
		Power Budget	Min. 30W
		General	
		Power Supply:	100-240V AC, 50Hz
		Operating Conditions:	-10 °C ~ 60 °C less than 95 % RH
		Make	CISCO : Cisco Systems, Inc Netgear: Netgear Inc HP: HP Development Company, L.P. Allied Telesis: Allied Telesis, Inc. D-Link : D-Link (India) Limited
		Warranty	Three years
6	POE SWITCH (8-Port)	Ports	
		Network Ports:	9
		PoE Port:	8, 10/100Mbps RJ45 ports
		Uplink Port:	1, 1000Mbps Ethernet Port
		Standard	
		Network Protocol:	IEEE802.3,802.3u,802.3x, 802.3af, 802.3at
		Address Database size	Min 4k MAC Addresses
		Flow Control:	IEEE802.3x full duplex
		Power Over Ethernet	
		PoE Standard:	IEEE802.3af, IEEE802.3at
		Power Budget	Min. 65W
		General	



		Power Supply:	100-240V AC, 50Hz
		Operating Conditions:	-10 °C ~ 60 °C less than 95 % RH
		Make	CISCO : Cisco Systems, Inc Netgear: Netgear Inc HP: HP Development Company, L.P. Allied Telesis: Allied Telesis, Inc.
		Warranty	Three years
7	POE + SWITCH (16-Port)	Ports	
		Network Ports:	18
		PoE Port:	16, 10/100Mbps RJ45 ports
		Uplink Port:	2, 1000Mbps Combo Port
		SFP port	Min. 2 port
		Standard	
		Network Protocol:	IEEE802.3,802.3u,802.3x, 802.3af, 802.3at
		Address Database size	Min 4k MAC Addresses
		Flow Control:	IEEE802.3x full duplex
		Power Over Ethernet	
		PoE Standard:	IEEE802.3af, IEEE802.3at
		Power Budget	Min. 150W
		General	
		Power Supply:	100-240V AC, 50Hz
		Operating Conditions:	-10 °C ~ 60 °C less than 95 % RH
		Make	CISCO : Cisco Systems, Inc Netgear: Netgear Inc HP: HP Development Company, L.P. Allied Telesis: Allied Telesis, Inc. D-Link : D-Link (India) Limited
		Warranty	Three years
8	22" LED Monitor With Wall Mount Bracket.	22" LCD Monitor	
		Max Resolution	1920×1080
		Interface	RGB IN, HDMI IN, Digital Audio Output
		Power Supply:	230V, 50Hz
		Make	Sony: Sony India Pvt. Ltd. LG: LG Electronics India Pvt. Ltd. Panasonic: Panasonic India Pvt. Ltd. Samsung : Samsung India Electronics Pvt. Ltd
		Warranty	Three years
9	32 "LED Monitor with Wall Mount Bracket.	32" LCD Monitor	
		Max Resolution	1920×1080
		Interface	RGB IN, HDMI IN, Digital Audio Output
		Power Supply:	230V, 50Hz



		Make	Sony: Sony India Pvt. Ltd. LG: LG Electronics India Pvt. Ltd. Panasonic: Panasonic India Pvt. Ltd. Samsung : Samsung India Electronics Pvt. Ltd
		Warranty	Three years
10	6 / 12 TB SURVEILLANCE HDD	RPM	7200
		Make	Seagate : Seagate Technology LLC
		Warranty	Three years
11	1 KVA UPS with 1hr Battery Backup digital display indication	Input Voltage	230 VAC nominal
		Frequency	50 Hz +/-1 Hz
		Output	
		UPS Capacity (total)	1000VA / 600W
		Output Voltage range	230 V +/- 10% with 50 Hz
		Voltage on Battery	230 VAC
		Frequency	On Battery 50 Hz ± 1 Hz
		Operating	-10 °C ~ 60 °C less than 95 % RH
		Battery	60 AH Maintenance-free
		Charger	5A
		Make	APC : Schneider Electric Vertiv Energy Private Limited Numeric (Legard) : Legrand Group or any other reputed make having valid BIS registration.
		Warranty	Three years
		Certificate	Bureau of Indian Standards (BIS)
12	6U Rack (Outdoor)	Dimension:	550 x 400 x 350 mm Wall Mount / Floor Standing / Table Mount option, Front door with Toughen Glass & Lockable, Closed Rubber Grommet at Cable Entry
		Complete Body	Top and Bottom of 18 SWG CRCA Material, Door & inside Channels of 16 SWG CRCA Material
			Weather proof & Compatible to accommodate LIU, Switch, PoE adopter etc. and fitted with cable manager and with mounting accessories
		Make	Valrack/APW/Rittal/APW President
13	9U Rack	Dimension:	Width 600 mm and depth 450 mm – Wall Mount / Floor Standing / Table Mount option, Front door with Toughen Glass & Lockable, Closed Rubber Grommet at Cable Entry
		Complete Body	Top and Bottom of 18 SWG CRCA Material, Door & inside Channels of 16 SWG CRCA Material
		Power Distribution Unit	1.5 meter cable length for 240/220V AC Supply having 4 sockets of 5 Amp to be used for other devices
		Fan	Top mounted 90 CFM Fan (01nos.) with finger guard
		Make	Valrack/APW/Rittal/APW President



14	CAT-6 Armored cable	Size:	Armored CAT-6 (4 Pair) cable design for external use burial and or Arial use, 24 AWG solid copper conductor. Armored GI wire size: 0.9 mm
		Make	D-Link / TYCO / Systimax / Molex / Schneider / Digisol / Commscope / Panduit(Pannet) / Siemon
15	Fiber cable – 6 core cable	Size:	Unitube, Single Mode, Outdoor Direct Burial Cable, Central loose tube with jelly compound, High strength ripcord under armored Cable protected from moisture, suitable for indoor and outdoor use and protected against
		Make	D-Link / TYCO / Systimax / Molex / Schneider / Digisol / Commscope / Panduit(Pannet) / Siemon
16	LC-SC Single Mode Optical fiber duplex patch cord	Size/Length:	LC-SC SM Duplex, the patches to be supplied shall be of full standard optical specifications, length of 1 mtr.
			Terminated connector: compatible with industry standard i.e. EIA/TIA, IEC, ANSI
		Make	D-Link / TYCO / Systimax / Molex / Schneider / Digisol/Commscope/Panduit(Pannet)/Siemon
17	LIU (Line interface Unit) (Optical Fiber interconnecting unit) 06 port fully loaded	- Rack mount type with 06 ports Loaded (SC) SM, pigtail and splice tray. - Aluminum base material for light mounting - Front - mounted cable saddles for jumper management - Can manage both splice and terminations - Preassembled shelves in multiple configuration - Rubber fiber slotted bracket built in, metal splice shelf to protect the fibers - Removable Front and rear covers for better access to interior of LIU - The pigtails to be supplied shall be SC simplex of length 1 meter. The pigtails to be supplied shall be good end face geometry, standard optical specifications, precise length & tolerance.	
		Make	D-Link / TYCO / Systimax / Molex / Schneider / Digisol
18	Pigtail	The Pigtails to be supplied shall be LC SM SIMPLEX of length 1 meter. The pigtails to be supplied shall be of good end face geometry, full standard optical specification.	
		Make:	D-Link / TYCO / Systimax / Molex / Schneider / Digisol
19	Media Converter	The media converter should support Single Mode fiber and shall be suitable for interfacing with the camera / Ethernet switch.	
20	Power cable	Size:	Un- armored 3 core, 2.5 sq.mm with standard copper conductors
		Insulation:	PVC insulated 1100V grade, FR type suitable for steady temperature of 70 degree C.
		Make:	Finolex/KEI/ Polycab/Universal/Asian/Delton/Havells
21	Junction Box (Outdoor)	Size:	Whether proof, FR type suitable for IP based CCTV Camera, Dimension: (100 x 100 x 50) mm,
		Make:	Any Standard make
		Size:	- Dia: Min 25 mm (Inner)



22	HDPE Pipe	Make:	Any Standard make
23	3 Mtr Pole (Tubular)	Size:	Height: 3 Mtr GI Tubular Poles. Size: Middle 2 Mtr. Long, 88.9mm dia & 3.25mm thick 03-meter heighted pole which to be installed on control room building including clamps and other accessories to be fixed is in the scope of bidder
		Make:	Any Standard make
24	9 Mtr Pole (Tubular) including foundation casting.	Swaged type welded GI tubular pole of Height: 9 Mtrs Size: Bottom 5 Mtr. Long, 114.2mm outer dia & 3.5mm thick, Middle 2 Mtr. Long, 88.9mm dia & 3.25mm thick, Top 2 Mtr long, 76.1 mm dia (outer) and 3.25mm thick. Foundation: 1.5 mtr x 0.450 mtr x 0.450 mtr Pole erection by excavating in any type of soil by providing of M15 Grad concrete (1:2:4) foundation of 1.5 mtr x 0.450 mtr x 0.450 mtr in the scope of bidder	
		Make:	Any Standard make
25	Laying of CAT-6 armor/ Fiber optical cable and Power Cable in PVC / HDPE pipe with all necessary accessories.		
26	Digging suitable width up to 450 mm and back filling in any type of soil for laying of surveillance system cable.		
27	Splicing of Single mode Pigtail with Fiber core		
28	Installation and commissioning charges for CCTV surveillance system including providing & Mounting Stand for LED and brackets for IP Bullet/PTZ camera, Patch cord, LIU, power adopter, HDMI cable, connectors, required splicing of cable etc. as per tender terms and condition. All equipment under this package is to be installed in various substation. The OFC cable and Power cable shall be laid in HDPE conduits either in cable trenches or underground depending upon site requirement. If it is underground the depth of trench shall not be less than 2 feet. Civil work if any during the installation activity shall be carried out by the bidder without any extra financial implication to GETCO.		



Software for Network Video Recorder (NVR)

Software for 8 Channel / 16 Channel NVR:

The Software should be designed for open platform and no proprietary hardware required for installation of the software. It should be completely scalable CMS/ CCTV system. The software should support Min. 2 Mega pixel and higher camera and should facilities viewing up to Full HD/ H.265 (0 to 30 fps) on the work station. Recording can be scheduled for the various video source with different frame rates.

Sitemap:

- **Alarms:** The alarms are displayed in the sitemap, enabling the user to take timely action.
- **Field of view:** The user can create field of view of the cameras, indicating the area of coverage.

Recording and playback

- **Video:** An optional streaming is available for rendering additional streams for recording and live viewing. Video Recording on Selected Channel.
- **Search Mode:** Date and Time, Camera, Event, Recording Type
- **Playback Modes:** Fast Forward, Slow Forward, Slow Reverse, Fast Reverse at Different Speed Control, Next Previous Frame
- **Export:** Exporting the video data in native format with multiple file export option makes it a hassle free export and playback of the video sequence. Manual Backup over USB through USB2.0 / USB3.0 interface

Events and controls

- **Alarms:** Supports inbuilt video analytic alarms such as Face detection, Boundary Crossing detection, camera occlusion, Unexpected activity detection, Motion Detection, View Tampering, Connection Failure, Recording Failure, Storage Alert, Disk Volume Full, Disk Fault, Scheduled Backup Fail.
- **Event action:** Automatic actions can be configured per camera for each event. The actions supported comprise SMS, email with Snapshot, camera pre-set, Turn On/Off Alarm Outputs, Buzzer Notification.
- **PTZ controls and digital zoom:** Digital zoom supports both on live and recorded videos.
- **Snapshots:** The snapshot of any camera in the tile can be taken and saved in the database for future investigation and evidence purposes.
- **Camera discovery:** IP cameras of different makes and models can be added automatically. Manual and bulk additions of cameras are also supported.

Reports:

A comprehensive reporting on the alarms, event logs, health status of the devices such as IP Camera, Server and Workstation are provided.



Type Test for Bullet Camera, PTZ Camera & NVR

(1) Following Type Test certificates shall be submitted in Technical specification for

IR bullet camera and PTZ camera.

S/n	Test Name	Type Test Standard	Confirmation (Tick ✓ any one)
1	Electrical Fast Transient/burst immunity test (EFT)	IEC 61000 – 4 - 4	YES / NO
2	Damped Oscillatory (1MHz & 100 KHz)	IEC 61000 – 4 – 18	YES / NO
3	AC Voltage Dips & Interruption and voltage variation immunity test	IEC 61000 – 4 – 11	YES / NO
4	Electrostatic immunity test	IECv61000 – 4 – 2	YES / NO
5	Power Frequency Magnetic Field	IEC 61000 – 4 – 8	YES / NO
6	Ripple on DC input Power Supply Port immunity test	IEC 61000 – 4 – 17	YES / NO
7	Immunity to conducted disturbance, induced by radio- frequency fields	IEC 61000 – 4-6	YES / NO
8	Radiated, radio-frequency, electromagnetic field immunity test	IEC 61000 – 4-3	YES / NO
9	Surge immunity test	IECv61000 – 4-5	YES / NO
10	Limits for harmonic current emission (equipment input current ≤ 16A per phase)	IEC 61000– 3-2	YES / NO
11	Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	IEC 61000– 3-3	YES / NO
12	Audio/Video, information and communication technology equipment-part 1: safety requirement	IEC 62368-1:2018	YES / NO
13	For FCC	47 CFR FCC Part 15-Sub part B (Class B) ANSI:2009	YES / NO
14	For IP66	IS/IEC 60529:2001 Clause No. 12.2,12.3,13.4,13.6,14.2.6,14.3	YES / NO
15	For Vibration	IEC 60068-2-6:2007	YES / NO
		IEC 62262:2002	YES / NO

***** The validity of Type Test shall be 7 years.**

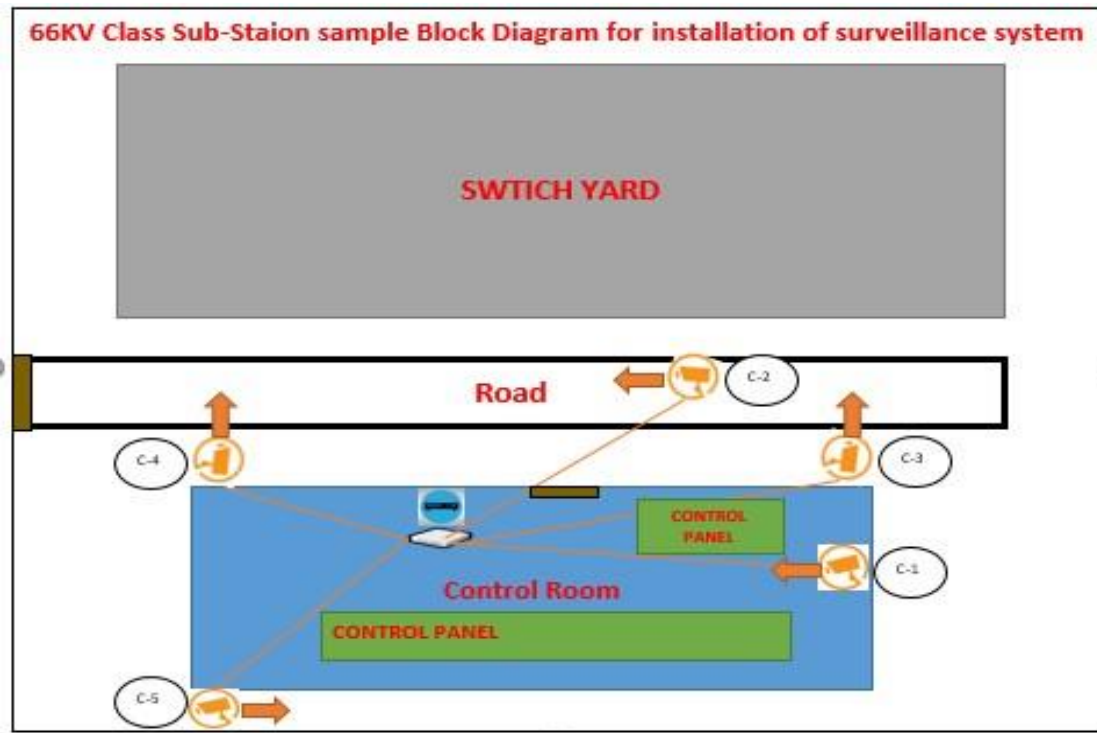
(2) Following Type Test certificates shall be submitted in Technical specification for NVR.:

S/n	Test Name	Type Test Standard	Confirmation (Tick V any one)
1	For CE (EMI-EMC)	IEC/EN 61000-3-3:2003 CISPR 22:2008 CISPR 24:2010 IEC/EN 61000-3-2:2005 + A1:2008 + A2:2009	YES / NO
2	For FCC	47 CFR FCC Part 15-Sub part B (Class B) ANSI:2009	YES / NO
3	For Safety	IEC/EN 60950-1:2005 + A1:2009+A2:2013	YES / NO

*****The validity of Type Test shall be 7 years.**

All Type test for Bullet camera, PTZ Camera & NVR are mandatory and submit along with GTP

Sample architectural drawing for installation of complete surveillance system





4G LTE N300 Wi-Fi Router

G403C

Key Features

- Ingeniously built to facilitate a smart home and a productive business or working environment, ideal for pop-up shops, smart classrooms, and streaming, etc.
- Share mobile 4G Internet connection with multiple devices at home to simultaneously work, stream, game, and more
- 4G LTE speed up to DL 150 Mbps and UL 50Mbps¹ and the support for Mobile IPv6 makes it future-proof
- 802.11n speed up to 300 Mbps¹ for a smooth and uninterrupted online experience
- 3 Fast Ethernet LAN ports and 1 Fast Ethernet WAN/LAN port provide high-speed wired connectivity
- Provides the latest WPA3™ encryption for network security
- 2x 5 dBi external antennas for cellular and 2x 5 dBi external antennas for Wi-Fi
- Supports up to 32 devices to simultaneously connect via Wi-Fi
- Device gets EN 303 645 cyber security certified



User Benefits



LTE Connectivity

Stays connected with LTE connectivity, even in areas without wired Internet



Wi-Fi Speeds up to 300 Mbps

Sufficient bandwidth for Internet surfing, email, and social media



WAN Failover

Switch to a backup Internet connection if the primary connection is lost



5 dBi Antennas

Equipped with 5 dBi external antennas for both LTE and Wi-Fi



Easy Setup

Just insert a SIM card for instant, fast Internet service without the need for physical cables and installation



Security & Privacy

Keep your network secure with WPA3™ Wi-Fi encryption and EN 303 645 security certification

G403C



Technical Specifications

General	
Device Interfaces	• 3 x Fast Ethernet LAN ports • 1 x Fast Ethernet WAN/LAN port • 1 x WPS button • 1 x Reset button • 1 x Power button • 1 x SIM Card slot (Nano SIM: 4FF) • 1 x Power connector
Antenna Type	• 2 x 2.4 GHz WLAN fixed external antennas • 2 x LTE/3G fixed external antennas
IEEE Standards	• IEEE 802.11n/g/b • IEEE 802.3u/ab
Wi-Fi Data Rates ¹	• 2.4 GHz up to 300 Mbps
Data Signal Rates ¹	• LTE Downlink up to 150 Mbps/Uplink up to 50 Mbps • HSPA+ Downlink up to 21 Mbps/Uplink up to 5.76 Mbps
Frequency Support ²	• LTE: B1/B3/B5/B7/B8/B20/B28/B38/B40/B41 • WCDMA: B1/B5/B8 • GSM: 900/1800
Functionality	
Security Protocol	• None • WPA-PSK • WPA2-PSK • WPA3-PSK
Firewall	• Stateful Packet Inspection • Anti-spoofing Checking • IP/MAC Address Filtering • Port Forward, Virtual Server, DMZ, and VPN Pass-through
Software	
Device Management	Web UI
Physical	
LED	• Power • Status: Internet, WAN, LAN ports • LTE/3G, Wi-Fi, WPS
Dimensions	222 x 147 x 42 mm (8.74 x 5.79 x 1.63 in)
Weight	240 g (8.47 oz)
Power Adapter	12V/1.0A
Operating Temperature	-10 to 40 °C (14 to 104 °F)
Storage Temperature	-40 to 70 °C (-40 to 158 °F)
Operating Humidity	10% to 95% non-condensing
Storage Humidity	0% to 95% non-condensing
Certifications	• CE • NCC • RCM • RoHS
Ordering Information	
G403C	4G LTE N300 Wi-Fi Router

1. Maximum wireless signal rate derived from IEEE standard 802.11n/g/b/a specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors may adversely affect wireless signal range.

2. Supported frequency bands are dependent on regional variants and may not be available in all markets.

HQ | No. 289, Xinhua 3rd Road, Neihu District, Taipei 11494

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v1.00 WW





GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
Circle Gondal, Power House Comp, Station Plot, Gondal-360 311.
(CIN: U40100GJ1999SGC036018)
Phone No.(02825) 220121 (O)
Email: setrgondal.getco@gebmail.com
Web site: www.getcogujarat.com



A/T ACCEPTANCE LETTER: -

(TO BE SUBMITTED ON FIRM'S LETTER HEAD)

Ref. No.

Date:

To,

The Superintending Engineer (TR)

Gujarat Energy Transmission Corporation Ltd,

Power House Compound,

Station Plot

Gondal - 360 311

Sub: _____

Reference

(1) Tender No :-

(2) W.O No. : - _____

We hereby acknowledge, agree and accept your A/T under reference above with terms and conditions mentioned therein.

(Signature)

Designation _____



GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
Circle Gondal, Power House Comp, Station Plot, Gondal-360 311.
(CIN: U40100GJ1999SGC036018)
Phone No.(02825) 220121 (O)
Email: setrgondal.getco@gebmail.com
Web site: www.getcogujarat.com



Annexure-14

(UNDERTAKING IN REGARD TO STOP DEAL/BANNED FOR BUSINESS DEALING/BLACK LIST THEREOF IN FIRM LETTER PAD)

Sub: Undertaking in regard to Stop Deal/Banned for Business dealing/Black list thereof.

Ref: Tender No._____

(All bidders will have to furnish the following undertaking duly filled in, signed and stamped for each quoted item of the tender along with the technical bid.)

I/We _____ authorized signatory of M/s. _____ here by certify that M/s. _____ and their proprietor/any partner/any directors of the firm is not stop deal and/or banned for business dealing and/or black listed by GUVNL and/or their any subsidiary company viz. GSECL/GETCO/DGVCL/MGVCL/UGVCL/PGVCL.

Seal of the firm

Signature of the tenderer



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Application for refund of EMD

(TO BE SUBMITTED ON FIRM'S LETTER HEAD IN PHYSICAL FORM-SOFT COPY APPLICATION WILL NOT BE ENTERTAINED)

To,
Superintending Engineer (TR),
Transmission Circle,
GETCO, Gondal.

Sub :- Application for refund of EMD.

Respected sir,

I request your good self to refund my EMD for the tender mentioned below as soon as the prise bids are opened and if i/we am/are not the L1 for the same.The details are as under....

Tender No.

Tender ID

Name of work / Subject

EMD mount

EMD DD No., Date & Name of Bank

Name of bidder

Contact No

E mail Address

Bank detail for RTGS into which EMD is required
tobe refunded.

Thanking You,

Faithfully Yours,

(Name and Seal of bidder)



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Letter Head of party

**(This Performa should be submitted by party
on it's letter Pad along with Tech. Bid for RTGS)**

To,
The Superintending Engineer(Tr.),
GETCO, Transmission Circle,
Old power house, Station Plot,
Gondal.

Sub:- **Submission of detail regarding payments of our bills through RTGS/NEFT.**
Dear Sir,

Reference to subject cited above, the details of our Bank Account for payment of ours bills through RTGS/NEFT are as under.

Sr. No.	Particulars
1	Name of Party / Firm
2	Name of Bank
3	Account Number
4	Type of Account
5	Branch name & Address
6	Contact No. of Branch
7	IFSC No.
8	e-mail ID & cancelled Cheque (Original)

You are requested to do payment of bills through RTGS / NEFT.

Thanking you,

Yours Faithfully,

(Name & Seal of Bidder)

INTEGRITY PACT

Date:

OUR ENDEAVOUR

To create an environment where Business Confidence is built through Best Business Practices and is fostered in an atmosphere of trust and respect between providers of goods and services and their users for the ultimate benefit of society and the nation.

	<u>GETCO'S COMMITMENT</u>		<u>PARTY'S COMMITMENT</u>
○	To maintain the highest ethical standards in Business and professions.	○	Not to bring pressure recommendations From outside GETCO to influence its decision..
○ ○	Ensure maximum transparency to the satisfaction of stakeholders. Ensure to fulfill the terms of agreement/contract and to consider Objectively the view point of parties.	○ ○	Not to use intimidation, threat, inducement or pressure of any kind on GETCO OR ANY OF it's employees under any circumstances To be prompt and reasonable in fulfilling the Contract, agreement, legal obligations.
○ ○	Ensure regular and timely release of payments on due dates for work done. Ensure that no improper demand is made by employees or by anyone on our behalf.	○ ○	To provide goods and / or services timely as per agreed quality and specifications at minimum cost to GETCO. Abide by the general discipline to be Maintained in our dealings.
○ ○	To give maximum possible assistance to all the Vendors/ Suppliers/ Service Provider and other to enable them to complete the contract in time To provide all information to suppliers /contractors relating to contract / job which facilitate him to complete the contract / job successfully in time.	○ ○	To be true and honest in furnishing information. Not to divulge any information, business details available during the course of business relationship to others without the written consent to GETCO.
○	Ensure minimum hurdles to vendors / suppliers / contractors in completion of agreement / contract / work order.	○	Not to enter into carter / syndicate /understanding whether formal / non formal so as to influence the price.

Seal & Signature
(GETCO's Authorized Signatory)

Name :
Designation:

Seal & Signature
(Party's Authorized Person)

Name :
Designation:



GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
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Format for LOA (Letter of Acceptance)

(To be submitted on firms letter-pad. Duly stamped & signed)

Ref. No. _____

Date : _____

To,
Superintending Engineer (TR)
Gujarat Energy Transmission Corporation Ltd
Circle Office,
Gondal – 360311

Sub: Latter of acceptance of LOI

Ref: AT/LOI No: _____, dated _____

We hereby agree, admit and acknowledge the receipt of your above referred Acceptance of Tender for the **Work of Erection of 66KV equipment, structures, earthing, installation, control wiring, yard Lighting, Control-Room Electrification & Supply & installation of furniture and supply and installation of CCTV Camera etc. at Haripar (Kerala) S/S..** We hereby further agree to all the terms and conditions mentioned in the tender, LOI and A/T unconditionally.

Thanking You,
Yours faithfully,

for _____

(Authorized Signature)
Designation _____
(Official Stamp)



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Price Bid



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GUJARAT ENERGY TRANSMISSION CORPORATION LTD.

ESTIMATE

Name of Work : Work of erection of 66KV equipment, structures, control wiring, yard Lighting, Installation of Earthing, Control-Room Electrification, providing and fixing of furniture & Supply , installation and commissioning of CCTV camera surveillance systemetc. at 66KV HARIPAR (KERALA) Sub-Station.

SCHEDULE B-1: MAIN ERECTION

Sr. No	Description of work/Supply	Unit	TOTAL QTY	Rate	Amount
1	Erection of equipments of any type / make with required all spares & accessories as per supplier's manual and FQP, including individual & interpole wiring of for all mentioned voltage class switchyard (as per respective technical specifications & relevant special conditions) suitable for all type of bus configurations. Scope includes the dragging / loading / unloading of same from site store to erection site. c) 66KV Breakers without crane permitted.	Set of 3 Pole	4.00	5535.00	22140.00
2	Erection of CT/PT/CVT on Erected structure including complete dragging/loading/unloading of same with crane only from site store to erection site and fixing of required clamps, connectors & accessories as per instruction of Engineer-in-charge d) 66 kV CT / PT / CVT (without crane permitted)	Per Phase	18.00	623.00	11214.00
3	Erection of surge arrester with counter on Erected structure including complete dragging/loading/unloading of same with crane only from site store to erection site and fixing of required clamps, connectors as per instruction of Engineer-in-charge d) 66 kV LA (without crane permitted)	Per Phase	12.00	415.00	4980.00
4	Erection of Double break isolator (All make) with earth blade on its erected structure consisting of 3 base channels with solid core porcelain insulator including interconnected piping with operating mechanism and accessories with final adjustment for simultaneous mechanical & electrical operating for opening & closing. The rates are inclusive of dragging / loading /unloading of the same from site store to erection site as per instructions of Engineer-in-charge. a) 66 kV Isolator (without crane)	Set of 3 Phase	2.00	3459.00	6918.00
5	Same as item No. 4. but . without earth blade complete. a) 66 kV Isolator (without crane)	Set of 3 Phase	7.00	2491.00	17437.00



6	Erection of Solid core porcelain/ composite polymer Bus post insulator on its erected structure complete, fixing of accessories and shifting of same including loading /unloading from its site store to erection site. d) 66 Kv	Per No	8.00	277.00	2216.00
7	Laying of any size of 11/22kV XLPE cable including excavation of trench 300 mm wide & 600 mm deep including laying and filling up sand of 100 mm layer from bottom & bricks on three side of cable & refilling the trench with murram/soil & ramming etc. Required bricks, sand, power cable marker/ C.I. /G.I. plate etc. will have to be supplied by the contractor. Rates are inclusive of shifting of cable drum to the site from S/S site store. Drum should be handled only by jacking to avoid damage to cables.	Mtr	20.00	138.00	2760.00
8	Laying of any size of 11/22 KV XLPE cable in ready made cable trench or in open space. Rates are inclusive of shifting of cable drum to the site from S/S site store. Drum should be handled only by jacking to avoid damage to cables.	Mtr	570.00	63.00	35910.00
9	Erection of S/S & Equipment structure including punching of nut bolts. Rates are inclusive of shifting of same up to erection site from its s/s Store. 66 KV	MT	25.50	2491.00	63520.50
10	Erection of 66/22kV or 66/11kV Class power transformer with complete mounting of all the accessories i.e bushings, radiators, conservator tank etc. as per OEM approved drawing including laying of cable between all accessories mounted on the transformer / marshalling KIOSK. Filling and filtration of oil with filter machine as per direction of Engineer-in-charge, manufacturer engineer or as per instruction manual of the equipment. All necessary toold tackles, required filter machine, Hydralic Jack, Vacuum pump etc. required for transformer erection shall be provided by the contractor. Filtration of oil will be in scope of the contractor for the transformer.				0.00
	i) 5 MVA	No	0.00	12452.00	0.00
	ii) 10 MVA	No	0.00	20754.00	0.00
	iii) 15 MVA	No	0.00	24905.00	0.00
	iv) 20 MVA	No	2.00	31754.00	63508.00
11	Stringing of Bus complete in all respect with fixing of all fittings, insulators sag compensating plate/spring and all accessories as per the instruction of Engineer –In-Charge c) Single Moose/ AL-59 /Zebra conductor	Rmt r / Pha se	150.00	63.00	9450.00
12	Preparing and fixing of required length of jumpers in the switchyard on respective Bus & equipments, tensioning & dressing of jumpers complete as per instructions of Engineer –in –charge c) Single Moose/AL-59/Zebra/Panther conductor	Rmt r Per Pha se	325.00	16.00	5200.00



13	Installation of earthing strips/MS Round bar in any kind of soil except Rocky (HR/SR) soil as per earthing philosophy of GETCO► Grid Earthing:- 1) including digging of 600mm depth and 450mm wide trench. 2) Cutting, bending, laying and fixing of Earthing grid conductor.3) 75x10mm / 50x6mm GI strip: Fixing of two bolt at each straight joints and lap welding, removing oxide films formed during welding, applying two coats of red oxide and black powder after welding and applying zinc rich paint on welded joints.4) 25/32/36/40mm dia MS Rod: Lap welding at each straight & cross joints, removing oxide films formed during welding, applying two coats of red oxide and black powder after welding and applying zinc rich paint on welded joints.5) including supply of red oxide paint, black powder, HDGI Nuts & bolts as per specification.6) Back filling of the trench with yellow/ Normal soil.► Structures and Equipment Earthing:- 1) including digging of 600mm depth and 450mm wide trench. 2) Cutting, bending as per required shape, laying and fixing of riser from grid to structure and equipments.3) lap welding, removing oxide films formed during welding, applying two coats of red oxide and black powder after welding and applying zinc rich paint on welded joints including supply of HDGI Nuts & bolts for all connections including supporting to structures etc. as per specification.4) Back filling of the trench with yellow/ Normal soil. b) 50 x 6 mm GI strip / MS round bar up to and including 25mm	Mtr	3595.0 0	43.00	154585.00
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14	Installation of earthing strips/MS Round bar in Rocky (HR/SR) soil as per earthing philosophy of GETCO ► Grid Earthing:- 1) including digging of 600mm depth and 450mm wide trench. 2) Cutting, bending, laying and fixing of Earthing grid conductor. 3) 75x10mm / 50x6mm GI strip: Fixing of two bolt at each straight joints and lap welding, removing oxide films formed during welding, applying two coats of red oxide and black powder after welding and applying zinc rich paint on welded joints. 4) 25/32/36/40mm dia MS Rod: Lap welding at each straight & cross joints, removing oxide films formed during welding, applying two coats of red oxide and black powder after welding and applying zinc paint on welded joints. 5) including supply of red oxide paint, black powder, HDGI Nuts & bolts as per specification. 6) Back filling of the trench with yellow/ Normal soil. ► Structures and Equipment Earthing:- 1) including digging of 600mm depth and 450mm wide trench. 2) Cutting, bending as per required shape, laying and fixing of riser from grid to structure and equipments. 3) lap welding, removing oxide films formed during welding, applying two coats of red oxide and black powder after welding and applying zinc rich paint on welded joints including supply of HDGI Nuts & bolts for all connections including supporting to structures etc. as per specification. 4) Back filling of the trench with yellow/ Normal soil. <u>b) 50 x 6 mm GI strip / MS round bar up to and including 25mm</u>	Mtr.	300.00	164.00	49200.00
15	Providing Bore type earthing with drilling of minimum 200mm dia bore upto following mentioned depth in Rocky (HR/SR) Soil as per earthing philosophy of GETCO. 1) Work includes inserting 20/25mm dia MS Rod (for 66kV S/S) / 40 mm dia MS Rod (for EHV S/S) in bore depth and to be connected to the earthing grid at junction point by proper welding at both end. 2) This includes cutting, fabrication & welding of flat. 3) Refilling and compression of surrounding areas with Normal/yellow soil, ground enhancement material etc. wherever applicable as per approved Soil strata and earthing design calculation. 4) Required G.I. Earthing strip/ MS rods will be supplied by GETCO Free of Cost. 5) Earthing material like Normal/yellow soil, ground enhancement material (0.5CMT/Meter depth), water, etc. shall be supplied by contractor.				



	a) 18 Mtr Depth	No	20.00	5229.00	104580.00
16	Supply,Installation,Testing and commissioning of maintenance free treated earth electrodes suitable for NORMAL SOIL as per drawing No. GETCO/E/STD/P-021 (1 OF 2) R3 dated 29-05-2020 and technical specifications GETCO/E/TS-Maintenance free earth pits/R1 dated 04-06-15 for 66/11 kV substations with ground enhancement material/ back fill / grounding compound as per IEEE 80-2000 Clause 14.5 (d) and as per part-7 of IEC-62561 Using Copper bonded earth electrode (with 250 micron copper coating) having 24 mm dia (min) and 3000 mm length which shall be capable of handling STC of 25 KA-1 sec. Work also includes Providing BB masonry inspection chamber(manhole) incl. light type CI cover.	No	46.00	13893.00	639078.00
17	Erection of control panel relay panel or C/R panel or RTC panel including grouting of panel, jointing with adjoining panels including required fabrication for entry of control cables and complete vermin proofing. Job includes supply of required bolts, nuts etc. and shifting of panel from S/S site store to work site. d) 66 KV	No	6.00	691.00	4146.00
18	Erection of 11KV CB panel of any make including grouting, jointing with adjoining panels & horizontal , vertical levelling including required fabrication in control panel or required stone cutting in flooring for entry of power cable, control cable, including interpanel wiring and complete vermin proofing. Job includes supply of required bolts, nuts etc. and shifting of panel from S/S site store to work site.	No	10.00	2076.00	20760.00
19	-DO- but for LT panel GETCO including fixing of all switches bus bars etc.	No	1.00	968.00	968.00
20	Erection of battery charger of any make as per manufacturer's instruction manual including grouting, vermin proofing.	No	1.00	968.00	968.00
21	Erection of station transformer of 22 KV or 11 KV / 430 V on its plinth / Erected DP Structure , grouting of foundation bolts, fixing of channels, danger board etc. including connection with power cable LV cable terminations including shifting from S/S site store to plinth / Erected DP Structure as per the instruction of engineer in charge.	No	1.00	2214.00	2214.00
22	Fabrication for erection of any Equipment/Structure/panel or anywhere in s/s & F.B. at other end as per Inst. Of E.I.C.	L.S. (Ma x.)	1.00	4992.00	4992.00
23	Erection of support structure for 11kV Power cable termination at 11kV bushing for 10/15/20MVA power transformer as per Drawing No.:- GETCO/E/06S-STD/11kV STR-A2-02. 1) Material for supporting structure will be supplied free of cost by GETCO. 2) Necessary wooden clamps with required nut-bolt-washers & HDPE rubber piece for packing etc. as per drawing shall be supplied by the contractor.	No	2.00	998.00	1996.00



	3) Job also includes miNo.r fabrication if required as per instruction of EIC.				
24	Erection of support structure for station transformer as per GETCO Drawing No.:- GETCO/E/06S-STD/11kV STR A3-03. 1) Necessary wooden clamps with required nut-bolt-washers & HDPE rubber piece for packing etc as per drawing shall be supplied by the contractor. 2) Job also include erection of required 11kV LA, D.O. Fuse and any miNo.r fabrication if required as per instruction of EIC. 3) Material for supporting structures, DO Fuse and 11kV LA will be supplied by GETCO Free of Cost.	No	1.00	2196.00	2196.00
25	Providing & fixing Set of following Items on erected 11KV support structure system for power cable of 66/11KV Transformer as per GETCO drawing No. GETCO/E/06S-STD/SPL-028A,R3 Dtd.26.10.2016 . and instruction of EIC. 1) Allu. alloy bus bar of size 120X20X2000 mm with heat shrinkable anti tracking tubing: 03 Nos. 2) 11KV SRI of PCD 127 mm - 18 No 3) Copper laminated fusion welded flexible jumper of size 100 X 10 X 600 mm having 2000 Amp capacity : 03 No 4) Bi Metalic Plate (Al/Cu):03Nos 5)11KV Heat Shrinkable anti tracking Sleeve on Al Bus bar of all three Phase:08 mtrs 6) Including required GI/SS nut-bolt and washer of good Quality for fitting support structure. 7) All live parts shall be coverd with heat shrinkable MV insulated tape/sleeve. Note:- Safe Clearance/ Safety protection to be required as per EIC instruction/ AM Inspection instruction.	Set	2	32498.00	64996.00
26	Erection of 11KV D.P. Structure GETCO Drawing No: GETCO/E /06S-STD/11 KV- STR- A1-01 & Drawing No: GETCO/E /06S-STD/11 KV- STR- A4-04 1) Job includes erection of 11kV A/B Switches, 11kV LA, jumpering between 11kV cable to 11kV bus, etc. on erected structure. 2) Material for DP structure, AB switches, PI and conductor for jumpers will be supplied free of cost by GETCO. 3) Necessary wooden clamps with required nut-bolt-washers & HDPE rubber piece for packing etc. to hold 11kV power cable as per drawing shall be supplied by the contractor. 4) Job also includes miNo.r fabrication if rquired as per instruction of EIC.	No	10.00	2196.00	21960.00



27	Loading, Transporting & Unloading of all material for 66 kV substation like Structure, indoor & out door Equipments, DP Structure, earthing materials, Battery set, fire wedge, GI/MS scrap, all other required materials, etc. in all respect for Substation & opposite end feeder bay from Store (Any store either const. div. or R & M store within respective Zone) to Sub Station Site. This job also includes crediting balance materials at respective construction division store at No. extra cost.	Job	1.00	51720.00	51720.00
28	Supply & laying of 1 CoreX25mm ² , armoured Copper Cable, multi-strand flexible of approved make ISI marked in ready made trench and/or PVC pipe from Battery Charger to Battery Set including termination at both side as per inst. of EIC.	Mtr	40.00	199.00	7960.00
29	Providing and fixing of Radium sticker for outdoor and Indoor Equipment Identification like LA, Isolator, Circuit Breaker, Transformer, CT, PT, MK Box, C&R Panels, 11kV Panel board etc	Sq.ft	10000.00	2.00	20000.00
30	Providing and Fixing of fire stand made from 75mm dia GI pipe A class ISI mark heavy duty having 5ft width and 4ft height as per inst of Engr. In charge 1) Work includes cutting, drilling, welding of pipe as required. Fabrication and supply of 16mm dia meter hook size required for hanging the buckets. 2) 4 Nos. of fire buckets are to be provided by the contractor. 3) Fire stand should be grouted with excavation of pit size 300mm x 300mm-2 Nos. of 600mm depth with 1:3:6 mix mulling 300mm in height including leveling of stand. 4) The fire stand is to be painted with post box red colour of approval quality as per instruction of EIC. 5) All required approved material including cement, sand, metal etc are to be provided by contractor.	Job	1.00	4992.00	4992.00
31	Labour charge for fixing of 11kV XLPE Indoor/Outdoor cable kit of any make for 11kV, 3C x 95 sqmm to 300 sq.mm XLPE power cable. Cable kit will be provided by GETCO.	No	24.00	748.00	17952.00
32	Providing & Fixing of Aquaguard Total Reviva Water R.O. Plant including Commissioning & Testing and also with required peripherals for installation of plant as per site condition (1) Dimension: 320 X 275 X 410 mm (2) Weight : 8 KG (3) Water flow : 8 to 12 LPH (4) Input power : 230V AC (5) RO membrane : TFC spiral You have to provide guarantee for the 12 month from the installation.	No	1.00	6889.00	6889.00



33	Providing and fixing of ISI mark Rubber Matting sheet Suitable for 11kV Class As per following specification. Reference IS:15652-2006 with latest amendment. Suitable for Voltage Class :B Max Use Voltage : 11kV AC proof voltage : 22kV Dielectric strength : 45kV Leakage current : < 10 micro ampere Colour RED/BLUE Make : Vardhman or equivalent (Rubberhouse India) Width :1 mtr. Thickness :2.5 mm. Surface :Chequered on one side and other side plain. NOTE: Contractor has to supply Rubber Matting sheet as per IS:15652-2006 with latest amendment specification and shall submit test certificate for routine test as per relevant IS	sq. mtr	20.00	4492.00	89840.00
34	Providing & fixing of reputed make ISI mark Fire Extinguisher with latest amendment in standards as per following capacity Note: Contractor shall submit Test certificate for routine test as per relevant IS.				0.00
	a) Chemical powder 9 kg	No	2.00	6301.00	12602.00
	b) CO2 type - 6.5Kg	No	2.00	7047.00	14094.00
	c) CO2 type - 22.5Kg	No	2.00	17817.00	35634.00
	d) Mechanical foam type - 50Ltr	No	1.00	14499.00	14499.00
TOTAL - 1 (SCHEDULE B - 1)					1594074.50
SCHEDULE B - 2 : CONTROL WIRING					
Sr. No	Description of work/Supply	Unit	TOTAL QTY	Rate	Amount
35	Preparing of complete schedule of wiring for line/ transformer bays in triplicate. necessary drawing will be provided by the GETCO. Schedule should be approved by EE or DE in charge. a) 66kV Bay	Bay	4.00	1996.00	7984.00
36	Laying of 1.1 KV PVC armored copper/ aluminum cable inside Hume pipe/cable trench including binding/clamping of cable with GI wire as per requirement including supply and fixing of identification tags on both ends and at distance every 10 mtr for following size.				
	a) 2C x 2.5mm Sq., 2C x 3.5mm Sq., 4C x 2.5mm Sq., 7Cx2.5mm Sq., 4C x 4mm Sq. copper control cable or any equivalent size of all LT cable	Per RMtr	2450.00	6.00	14700.00
	b) 12C x 2.5mm Sq., 12C x 4 mm Sq., 12C x 6 mm Sq., 19C x2.5mm Sq., 27C x 2.5 mm Sq. copper control cable, 3.5 C or 4 C x 10 mm sq. , 70 mmsq. aluminium armoured or unarmoured LT Power cable.	Per RMtr	1550.00	10.00	15500.00



37	Laying of 1.1KV PVC armoured copper / aluminium cable in ground by digging trench of suitable width and 450 mm depth in any type of soil including binding / clamping of cable with GI wire as per the requirement including the supply and fixing of identification tags on both ends and at distance every 10 mtrs.				
	a) 2C x 2.5mm Sq., 2C x 3.5mm Sq., 4C x 2.5mm Sq., 7Cx2.5mm Sq., 4C x 4mm Sq. copper control cable or any equivalent size of all LT cable	Per RMt r	140.00	21.00	2940.00
	b) 12C x 2.5mm Sq., 12C x 4 mm Sq., 12C x 6 mm Sq., 19C x2.5mm Sq., 27C x 2.5 mm Sq. copper control cable, 3.5 C or 4 C x 10 mm sq. , 70 mmsq. aluminium armoured or unarmoured LT Power cable.	Per RMt r	60.00	26.00	1560.00
38	Termination of Control Cable at Panel / M.K./ Equipments including supply of required size of Double compression type metal glands , lugs, ferrules, PVC Binding Tape, Buttons, Cable ties , etc. for following size of cables.				
	a) Up to 7 Core Control Cable.	End	180.00	199.00	35820.00
	b) As above but for Above 7 Core Control Cable. ,	End	70.00	349.00	24430.00
39	Providing & installation and commissioning of remote control switch board for ON/OFF control of all 11kv panel at operator table with supply of good quality metal sheet box (18 SWG) size 450 x 450 x 125 mm with door, 20 nos standard ISI make and rating industrial push botton, indication lamp(LED), terminal connectors fixed on c-type channel, etc. with installing accept/reset arrangement with required ISI marked copper flexible wire size 2.5 Sq. mm including complete wiring in PVC pipe and fixing on wall as per inst. of EIC.only 19/27 core x 2.5 sqmm cable supply by GETCO.	Job	1.00	6489.00	6489.00
40	Providing & fixing of all weather proof, cold rolled steel sheet floor mounted fixed type single door grey color Main AC Dist box having size 900x600x250 MM with door closing arrangement and necessary rubber gasket. Contractor has to supply following materials with box along with necessary mounting and wiring. (1) L&T/Anchor/Havells Make 100A,4P MCCB - 1 No. (2) L&T/Anchor/Havells Make 63A,4P MCB - 2 Nos. (3) 100 A Copper Bus-Bar Link - length 6 inch size & 25 x 3 MM - 4 Nos. (4) Tinned Earth Bus 25 x 3 MM Length - 32 Inch - 1No. (5) 25 & 16 sqmm Cu. flexible cable - 4 & 8 Meter respectively. (6) Required Nos. of Cu. Lugs , etc. as per instruction of EIC.	No	1.00	20650.00	20650.00

	GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED Circle Gondal, Power House Comp, Station Plot, Gondal-360 311. (CIN: U40100GJ1999SGC036018) Phone No.(02825) 220121 (O) Email: setrgondal.getco@gebmail.com Web site: www.getcogujarat.com	
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41	Providing and fixing of all weather proof, cold rolled sheet steel junction box for CVT & PT, CT terminations with 30 Nos. of disconnecting type, 'Elmex' make CATDM 4 or equivalent type connectors and required no of fuses, links etc.as per instruction of Engineer-in-charge, approved schedule of cable.	No	6.00	21549.00	129294.00
TOTAL - 2 (SCHEDULE B - 2)					259367.00
SCHEDULE B - 3 : YARD LIGHTING					
Sr. No	Description of work/Supply	Unit	TOTAL QTY	Rate	Amount
42	Providing & fixing of all weather proof, cold rolled sheet steel AC Panel - 2 for Yard-Light AC supply having (1) 63A 4P MCB : 01 No. (2) MCX-12A contactor : 01 No. (3) Digital Timer : 01 No. (4) 20A TPN MCB : 06 Nos (5) Indication lamp " 03 Nos (6) Push Butten : 02 Nos (7) Terminal Connector as per site requierment and other detail as per drawing enclosed including grouting & Necessary fabrication of GI Angle or fixing on GI Structure, including earthing with main grid as per instruction of EIC.	No	1.00	24732.00	24732.00
43	Supplying & laying of following size Control/ L.T. power cable in readymade cable trench or by excavating in any type of soil cable trench size 300mm wide 600mm depth and refilling the same as per the direction of EIC. Item Includes the cable laying upto termination box with clamps & proper clamping of cable on gantries by GI pipe & glands as per direction. Item includes providing & supply of bircks, sand as per requirement. The L.T power cable to be provided by contractor as under :As per ISI 1554 (Part-I). 3.5 Core x 50 mm2 Alluminium cable -Armoured, from distribution X'mer to Main Distribution Board near dist. X'mer and from MDB to indoor LT panel board (LTPB) - both 2 runs.	Mtr	90.00	292.00	26280.00
44	Supplying & laying of following size Control/L.T power cable of FINOLEX or equivalent ISI make in readymade cable trench or by excavating in any type of soil cable trench size 300mm wide and 600mm depth and refilling the same as per the direction of EIC. Item Includes the cable laying up to termination box with clamps & proper clamping of cable on gantries by GI pipe & glands as per direction. Item includes providing & fixing of bricks, sand as per requirement to protect cables . The L.T power cable to be provided by contractor as under :As per ISI 1554 (Part-I). 4 Core x 25 mm2 Aluminium cable -Armored, from LT panel board (LTPB) to Yard Light AC MK (AC Panel-2)., AC Panel 1 in C.R. and yard AC Box.	Mtr	60.00	175.00	10500.00

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45	-- do -- 4C x 4mm ² Copper cable - Armoured, from yard-light AC panel-2 to all yard-light fixture junction boxes on LM & street light pole & Station transformer to Colony & LT panel to watchman cabin. Note: Cable laying work either in ready made cable trench or by excavating in any type of soil if required (Only laying. Cable will be supplied by GETCO)	Mtr	450.00	19.00	8550.00
46	-- do -- 4C x 2.5mm ² Copper cable - Armoured, from yard-light AC MK (AC panel-2) to all junction boxes on post top lantern. Note: Cable Laying work either in ready made cable Trench or by excavating in any type of soil if required.(Only laying. Cable will be supplied by GETCO)	Mtr	125.00	19.00	2375.00
47	Providing & erection of 4.5 Mtr. long swaged type welded GI tubular post top lantern pole on the foundation in any type of soil as per inst. of E.I.C. confirming to relevant IS and as per attached Drawing No. GETCO/E/STD/LTG.POLE -R2, DT-24-12-2019	No	4.00	6988.00	27952.00
48	Supply and fixing of Pole/Wall/Structure mounted FRP junction box of any standard reputed make of required size with clamp, providing 1 SPN MCB, of 16 A having short ckt breaking capacity of 10kA peak of standard ISI make like L&T/ANCHOR/MDS/HAVELLS & 2 Nos. of stud type connector of standard make like Connectwell. The cable glands & lugs are also included for both incoming & outgoing cables Amp. of standard make like MDS/HAVELLS.	No	25.00	748.00	18700.00
49	Providing and fixing of Single Piece Cast Aluminium with full frame with Acrylic Cover integrated luminaries Energy Efficient flood light luminaries on swaged pole / GI structure by providing required fabrications, of Philips/CGL/Bajaj/GE/Osram make, suitable for 1 x 250 Watt HPSV/T with allied accessories such as Capacitor igniter, ballast, control gear box etc, 4 core 2.5 sqmm double insulated flexible stranded wire should be used from control gear fittings to approved SMC type junction box as per inst. of E.I.C.	No	17.00	11576.00	196792.00
50	Providing & Fixing of LED Street Light Fixtures (1X120W) (CGL Cat No. LSTO120/CDL 120W or equivalent under Cat-II or above as per R&B SOR), 4-core 2.5mm ² double insulated flexible stranded wire should be used from control gear fittings to approved SMC type junction box as per inst. of E.I.C.	No	2.00	9593.00	19186.00
51	Providing & fixing of 1x40W LED Post Top Lantern fixtures (CGL Cat No. LPTO-40/CDL 40W or equivalent under Cat-II or above as per R&B SOR) complete fitting in all respect and 4 core x 2.5 mm ² double insulated PVC flexible copper cable from control gear fitting to SMC junction box as per instruction of E.I.C. (4 No. are to be provided on Main gate & 3 No. are to be provided on 4.5Mtr Tubular pole)	No	6.00	7556.00	45336.00
TOTAL - 3 (SCHEDULE B - 3)					380403.00

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SCHEDULE B - 4 : CONTROL ROOM INDUSTRIAL ELECTRIFICATION

Sr. No	Description of work/Supply	Unit	TOTAL QTY	Rate	Amount
52	Providing and fixing of DBS as AC Panel - 1 for CR of ISI marked Powder coated Pearl DBS of ivory color , wall mounting, Double door Distribution board of L&T, Heggarr or higher make fitted with 63Amp Phase Bus bar, Earth / Neutral Bars and inter connecting wires with removable bottom gland plates for all power cable entry from bottom with DIN Channel ,incoming contact and 1No. - 63Amp TPN MCB 'C' Series, 6Nos. - 20A SP MCB 'C' Series and 13Nos. - 10A SP MCB 'C' Series All MCBs are L&T, Anchor or Higher make only. Complete in all respect and as per instruction of EIC.	No	1.00	6738.00	6738.00
53	Supplying & Laying Sub-main lines of 3X2.5 mm ² (two for P & N and one for Earthing) copper PVC insulated wiew of ISI brand in suitable standard make steel conduit pipe having minimum 1.5 mm thickness of approved brand with ISI brand with clmpes with it's associated accessories for various circuits amanating from AC panel 1.as per inst. of E.I.C.	Rmt r	180.00	125.00	22500.00
54	Point wiring for control room tube lights, fans, exhaust fans, fency lights, water tight bulck head lights with PVC insulated 660 V grade standard copper wire in ISI make GI conduct pipe 20 mm dia and 1.6 mm wall thickness size fitted with sadles on the wall/ceiling. Size of wire shall be with 3C x 1.5 sq.mm PVC insulated copper wire for phase and neutral and earth wire [Green] and 5 Amp Anchor/Roma or any equivalent switch as per specification with 16 guage M.S. box. The box shall be covered with 3 mm thick decorative mat finish hylum sheet. The work is all inclusive of supply and fixing of required materials as afore said [like GI conduct pipe , sadles , swithces , Steel box , ceiling Rose , flexible copper wire etc] to complete point wiring with each fixture to be earthed by SWG-12 stranded copper conductor having green color as per direction and instructions of E.I.C.	Poin t	70.00	1298.00	90860.00
55	Providing, fixing & termination for Emergency D.C. supply arrangement. This job includs supply & laying of 2C x 2.5 mm ² Copper armoured cable from battery charger to SBDC, fixing & providing SBDC & complete wiring with supply of wire & D.C. lamp (110V D.C., 100 watt-4 Nos.) in standard steel conduit pipe as per inst. of E.I.C.	Job	1.00	4492.00	4492.00



56	Providing and Fixing points wiring in GI. Conduit size 20 mm dia and 1.6 mm wall thickness with single PVC insulated 2.5 Sqmm. copper wire of ISI standard good quality using 1.5mm thick suitable size ISI mark Anchor brand 15 Amp. 250 Volt, 5-pin plug socket as separate plug point with shock proof accessories incl. indication lamp; erected on separate decorative mat finish hylum sheet board on wall with providing adequate green earthing wire as per specification and instruction of Engineer Incharge.	Poin t	8.00	1213.00	9704.00
57	---- Do ---- as above but with singal PVC insulated 3Cx1.5 sq. mm.copper wire of ISI mark plug socket for 5A domestic use separate plug pointas per direction and instruction of E.I.C.	Poin t	8.00	814.00	6512.00
58	---- Do ---- as above but looped on same board i.e. No separate board, plug socket for 5A domestic use as per direction and instruction of E.I.C.	Poin t	10.00	199.00	1990.00
59	Providing & Fixing of Ceiling Fan of 1400mm sweep Bajaj/Crompton / Orient/ usha / Cinni make (ISI approved). Fan is to be purchased from authorised dealer. Flexible wiring using twin core double PVC 48/0.2 mm copper flexible cord of suitable & approved make and size from ceiling rose upto fan terminal & supply and fixing of energy saver regulators, extra GI pipe of required size and length for lowering of fan if required as per instruction of EIC.	No	9.00	1797.00	16173.00
60	Providing & Fixing of 50 W LED Lighting Fixture (CGL Cat No. LCTLR-50-FO-CDL 50W or equivalent under Cat-II or above as per R&B SOR), 4-core 2.5mm2 double insulated flexible strended wire should be used from control gear fittings to approved SMC type junction box as per inst. of EIC.	No	24.00	5059.00	121416.00
61	Providing and fixing of 41.5W LED Lighting Fixture (CGL Cat No. LPFC-36-CDL 41.5W or equivalent under Cat-II or above as per R&B SOR) as per instruction of EIC.	No	4.00	3154.00	12616.00
62	Providing and fixing of 40W (1X4) LED Lighting fixtures as per drawing (in office area & Porch Area) (CGL Cat No. LCTLSN-40-CDL (1X4) 40W or equivalent under Cat-II or above as per R&B SOR) as per instruction of EIC.	No	4.00	3417.00	13668.00
63	Providing & fixing of 30W LED Street Light Bulkhead (CGL Cat No. LSTO-30-CDL 30W or equivalent under Cat-II or above as per R&B SOR) on out side C/R building and inside cable trench in C/R including wiring from ceiling rose to fixture with suitable size of PVC insulated ISI marked copper wire only as per Instruction of EIC.	No	8.00	2678.00	21424.00
64	Providing and fixing of heavy duty exhaust fan in battery room size 18" of Make GEC/KHAITAN/ CROMPTON/ BAJAJ incl. M.S. louver shutter of Fan & necessary wall finishing works and applying bird proof net on outside wall with required arrangement for rain water sealing and necessary conection from ceiling rose as per Direction and instruction of EIC.	No	1.00	3494.00	3494.00

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65	Providing & Fixing of Electric bell with bell switch near officer's table. All materials must be ISI mark and approved by EIC.	No	1.00	149.00	149.00
66	Providing and fixing of 18W LED Lighting Fixture (CGL Cat No.. LCTL-18-CDL 18W or equivalent under Cat-II or above as per R&B SOR) as per instruction of EIC	No	6.00	1281.00	7686.00
67	Providing & Fixing of G.I. 1.5Mtr Long, 16MM Dia Lightning Rod (Spike) for Lightning Protection of Control Room Buiding as per Instruction of EIC as shown in Drawing No.. GETCO/E/STD/DSLSP-66kV CR- R0 Dtd. 26.10.17	No	4.00	141.00	564.00
68	Providing & fixing of 50x6 mm GI Flat for Control Room DSLP Protection. The work is to be carried out as per Drg. No.. GETCO/E/STD/ DSLP-66kV CR, R0 dated:26.10.17 as per inst. of EIC. The rates are including fixing of clamps on wall which is to be fabricated from 50X6 GI Strip. (GI Strip will be supplied by GETCO Free of Cost)	RMt r	140.00	296.00	41440.00
69	Providing & fixing of Wall Mounted Fan Crompton / Orient/ PSPO / Usha / Cinni (must be ISI approved). including wiring from ceiling rose to Fan terminals of by using twin core flexible PVC to PVC 48 / 0.2 mm copper cord of suitable & approved size & fixing of Fan regulator.	No	1.00	1597.00	1597.00
TOTAL - 4 (SCHEDULE B - 4)					383023.00

SCHEDULE B - 5 : SUPPLY OF FURNITURE

Sr. No .	Description of work/Supply	Unit	TOTAL QTY	Rate	Amount
70	Supply of Steel Chair 'S' type, overhanging arm with cushion with cane seat/ 1"x16" gauge round pipe frame complete as per instruction of EIC & procurement from Adult training center for blind,Ahmedabad , Samanvay Saranjam-Rajkot, Saurashtra Rachnatmak Samiti, Rajkot, Udyog Bharti-Gondal or any other Govt. approved organization only.	No.	2.00	1850.00	3700.00
71	Supply of Steel Rack of size 36"x30"x12" (3' x 2.5'x1') with three partitions, prepared with 20 gauges as per instruction of EIC & procurement from Adult training center for blind,Ahmedabad , Samanvay Saranjam-Rajkot, Saurashtra Rachnatmak Samiti, Rajkot, Udyog Bharti-Gondal or any other Govt. approved organization only.	No.	1.00	2100.00	2100.00
72	Supply of Steel Table of size 54"x30"x30" (4.5' x 2.5' x 2.5') one side three drawers, one side shelf 1x18 gauge square pipe with Nova PAN Prelaminated top complete with locking arrangement to drawers & self as per instruction of EIC & procurement from Adult training center for blind,Ahmedabad , Samanvay Saranjam-Rajkot, Saurashtra Rachnatmak Samiti, Rajkot, Udyog Bharti-Gondal or any other Govt. approved organization only.	No.	1.00	8750.00	8750.00
73	Supply of Computer Table from prelaminated board with Key board facility and drawer with locking facility with continuous printer out facility & mouse tray and also with	No.	1.00	7200.00	7200.00

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	special tray for CPU & UPS having size 42"x24"x30" complete as per instruction of EIC & procurement from Adult training center for blind, Ahmedabad, Samanvay Saranjam-Rajkot, Saurashtra Rachnatmak Samiti, Rajkot, Udyog Bharti-Gondal or any other Govt. approved organization only.				
74	Supply of Steel revolving Chair, revolving & tilting, low back high type seat with foam rubber 3" in seat 2" in back with good quality raxine cover, five legs. Chromium plated frame complete as per instruction of EIC & procurement from Adult training center for blind, Ahmedabad, Samanvay Saranjam-Rajkot, Saurashtra Rachnatmak Samiti, Rajkot, Udyog Bharti-Gondal or any other Govt. approved organization only.	No.	1.00	4600.00	4600.00
75	Supply of Steel Cupboard, of size 78"x36"x18" four partition, door & Shelves 20 gauge complete as per instruction of EIC & procurement from Adult training center for blind, Ahmedabad, Samanvay Saranjam-Rajkot, Saurashtra Rachnatmak Samiti, Rajkot, Udyog Bharti-Gondal or any other Govt. approved organization only.	No.	1.00	9200.00	9200.00
TOTAL - 5 (SCHEDULE B - 5)					35550.00

SCHEDULE B - 6 : Supply, installation and commissioning of CCTV camera surveillance system

Sr. No.	Description of work/Supply	Unit	TOTAL QTY	Rate	Amount
76	Supply of IP Bullet Camera (2MP) with bracket & mounting accessories, as per technical specification and tender terms and conditions.	No	6.00	8395.35	50372.10
77	Supply of IP PTZ Camera (2MP) with bracket & mounting accessories, as per technical specification and tender terms and conditions.	No	1.00	68488.78	68488.78
78	Supply of Network Video Recorder (8 Ch) in built 6 TB SURVEILLANCE HDD, as per technical specification and tender terms and condition.	No	1.00	27063.57	27063.57
79	Supply of POE SWITCH 8 Port with 02 nos SFP port with 02 SFP module, as per technical specification and tender terms and condition.	No	1.00	34198.51	34198.51
80	Supply of 32" LED Monitor With Wall Mount Bracket, as per technical specification and tender terms and condition	No	1.00	33152.87	33152.87
81	Supply of 1 KVA UPS, as per technical specification and tender terms and condition.	No	1.00	24258.40	24258.40
82	Supply of Powder coated 9 U RACK, as per technical specification and tender terms and condition	No	1.00	10874.84	10874.84
83	Supply of 4 Pair, CAT-6, Armoured cable, as per technical specification and tender terms and condition.	MTR	400.00	80.66	32264.00
84	Supply of armored 4 core, 2.5 sq.mm with standard copper conductors power cable, as per technical specification and tender terms and condition.	MTR	50.00	96.80	4840.00



85	Supply of Standard ISI marked weather proof Junction box, as per technical specification and tender terms and condition	No	6.00	529.37	3176.22
86	Supply of HDPE pipe, as per technical specification and tender terms and condition	MTR	250.00	50.42	12605.00
87	Supply of 3 mtrs Long GI Pole (Conical/polygonal), as per technical specification and tender terms and condition.	No	1.00	13285.75	13285.75
88	Laying of 4- Pair CAT-6 armour cable and Power Cable in PVC / HDPE pipe with all necessary accessories as per technical specification and tender terms and condition.	RMT R	400.00	14.12	5648.00
89	Installation and commissioning charges for CCTV surveillance system including providing & Mounting Stand for LED and brackets for IP Bullet/PTZ camera, Patch cord, LIU, power adopter, HDMI cable, connectors, required splicing of cable etc. as per tender terms and condition.	Job	1.00	3690.49	3690.49
90	Supply, installation and commissioning of 4G LTE N300 Wi-Fi Router (G403C) with following technical configuration. Device Interfaces:- • 3 x Fast Ethernet LAN ports, 1 x Fast Ethernet WAN/LAN port, 1 x WPS button, 1 x Reset button, 1 x Power button, 1 x SIM Card slot (Nano SIM: 4FF), 1 x Power connector. Antenna Type:- • 2 x 2.4 GHz WLAN fixed external antennas, 2 x LTE/3G fixed external antennas. IEEE Standards:- IEEE 802.11n/g/b, IEEE 802.3u/ab. Wi-Fi Data Rates1:- 2.4 GHz up to 300 Mbps. Data Signal Rates1:- LTE Downlink up to 150 Mbps/Uplink up to 50 Mbps, HSPA+ Downlink up to 21 Mbps/Uplink up to 5.76 Mbps. Security Protocol:- None, • WPA-PSK, • WPA2-PSK, • WPA3-PSK. Firewall:- Stateful Packet Inspection, Anti-spoofing Checking, IP/MAC Address Filtering, Port Forward, Virtual Server, DMZ, and VPN Pass-through. Device Management:- Web UI LED:- Power, Status, Internet, WAN, LAN ports, LTE/3G, Wi-Fi, WPS Dimensions:- 222 x 147 x 42 mm (8.74 x 5.79 x 1.63 in) Weight :- 240 g (8.47 oz) Power Adapter :- 12V/1.0A Operating Temperature:- -10 to 40 °C (14 to 104 °F) Storage Temperature:- -40 to 70 °C (-40 to 158° F) Operating Humidity:- 10% to 95% non-condensing Storage Humidity:- 0% to 95% non-condensing Certifications:- CE,NCC,RCM,RoHS	NO	1.00	4238.00	4238.00
TOTAL - 6 (SCHEDULE B - 6)					328156.53
SUB - TOTAL - 1 (SCHEDULE B - 1)					1594074.50
SUB - TOTAL - 2 (SCHEDULE B - 2)					259367.00
SUB - TOTAL - 3 (SCHEDULE B - 3)					380403.00
SUB - TOTAL - 4 (SCHEDULE B - 4)					383023.00
SUB - TOTAL - 5 (SCHEDULE B - 5)					35550.00
SUB - TOTAL - 6 (SCHEDULE B - 6)					328156.53
TOTAL(1+2+3+4+5+6)					2980574.03
ADD : 9%CGST					268251.66

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	ADD : 9%SGST	268251.66
	GRAND TOTAL	3517077.35
	ADD : 1%Welfare Cess	35170.77
	GRAND TOTAL	3552248.12

NOTE: -Welfare tax 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.

CERTIFICATE

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