

**GETCO**

ગુજરાત એનર્જી ટ્રાન્સમિશન કોર્પોરેશન લિ.
Gujarat Energy Transmission Corporation Ltd.
ગુજરાત સરકારનું સાહસ Government of Gujarat Undertaking

CIRCLE OFFICE JUNAGADH

Add: 1st Floor, Office Building, 66KV Zanzarda SS Compound, Opp. Nandbava Gaushala, Dhandhusar Road, Zanzarda, Junagadh-362015.

E-mail: setrjunagadh.getco@gmail.com

N- Tender No. TCJND/2026-27/N-83

Tender for Survey, Design, Supply, Installation, Commission and maintenance of Solar PV System for 5 years as a rooftop at Control Room terrace of various Substations of Keshod, Kodinar and Junagadh AM division under Circle Office GETCO Junagadh. (Package -3)

Technical Bid (All relevant documents) and Price Bid both must be submitted online only. No physical bid accepted.

IMPORTANT NOTE:

IF BIDDER FAILED TO SUBMIT ANY OF THE REQUIRED DOCUMENT ALONG WITH THE ONLINE TECHNICAL BID AS PER QUALIFICATION REQUIREMENT, THEIR BID MAY BE REJECTED WITHOUT INTIMATION TO BIDDER.

HENCE, BEFORE QUOTE THE BID, BIDDER HAVE TO ENSURE THAT ALL THE DOCUMENTS ARE SUBMITTED ONLINE ALONG WITH TECHNICAL BID.

જો બિડર ઓનલાઇન ટેકનિકલ બિડ સાથે માંગેલા જરૂરી ડોક્યુમેંટ્સ માંથી કોઈપણ ડોક્યુમેંટ સબમિટ કરવામાં નિષ્ફળ જશે તો બિડરને જાણ કર્યા વિના તેમનું બિડ રદ થઈ શકે છે.

આથી ઓનલાઇન બિડ સબમિટ કરતાં પહેલા, બિડરે ખાતરી કરી લેવી કે તમામ જરૂરી ડોક્યુમેંટ્સ ઓનલાઇન ટેકનિકલ બિડ સાથે જોડેલા જ છે

NAME OF WORK: Tender for Survey, Design, Supply, Installation, Commission and maintenance of Solar PV System for 5 years as a rooftop at Control Room terrace of various Substations of Keshod, Kodinar and Junagadh AM division under Circle Office GETCO Junagadh. (Package -3)

Remark: The Scope of work covers cleaning and washing of the Photovoltaic modules regularly (Two times in a month to ensure annual capacity utilization factor of 17% during the five years CMC.

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Technical Bid

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Tender notice no. : TCIND/2026-27/N-83

Superintending Engineer, Transmission Circle GETCO Junagadh invites "On line Tenders" (e-tendering) for the work of **"Tender for Survey, Design, Supply, Installation, Commission and maintenance of Solar PV System for 5 years as a rooftop at Control Room terrace of various Substations of Keshod, Kodinar and Junagadh AM division under Circle Office GETCO Junagadh. (Package -3) "** from registered contractors in appropriate class and who has executed similar nature of work successfully as mentioned in Qualification requirement criteria given in the tender document. Bidders should fulfill 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 vnder 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.getcogujarat.com (for view & download only). Tender fee plus GST and EMD may be paid along with submission of tender by RTGS/NEFT/Online. "All the relevant documents of tender to be submitted online.

**The Superintending Engineer
Gujarat Energy Transmission Corporation Limited.,
Circle office GETCO - Junagadh,**

" NO COURIER SERVICE OR HAND DELIVERY" will be allowed.

Sr. No.	Name of Work	Estimated Cost Rs.	Time Limit	Tender Fee (include GST) Rs.	EMD amount	Appropriate class
1.	<i>Tender for Survey, Design, Supply, Installation, Commission and maintenance of Solar PV System for 5 years as a rooftop at Control Room terrace of various Substations of Keshod, Kodinar and Junagadh AM division under Circle Office GETCO Junagadh. (Package -3)</i>	9715342.10 including Tax	90 Days	5000+18 % GST 900.00 = 5900.00	80000.00	GEDA registered contractor

1	On line (e-tendering) tender/offer submission last date up to 16:00 hours only (This is mandatory)	06.10.2026
2	Date of opening of Tender Fee, EMD, and technical bid on line opening at 16:30 hrs. if possible	06.10.2026
3	Tentative Date of online opening of price bid	After Evolution of Technical Bid.

IMPORTANT:

1. All the relevant documents as per requirement of the tender to be submitted online i.e. Technical bid, Qualification requirement data, detail specification except Tender Fee plus GST as applicable, EMD Otherwise the offer will not be considered and no any further communication in the matter will be entertained.
2. Any deviation found in Data/Details/Documents in on line offer (e-tendering) submitted documents (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. Tender will be evaluated on Data/Details/Documents of the "on line" offer.
3. It is mandatory for all the bidders to submit their tender documents by on-line (e-tendering) in schedule time.

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4. 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, 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 corporation has every right to evaluate the bids accordingly and bidder cannot raise any objection against any point during evaluation.)
5. Bidders are requested to remain in touch with the web site for any amendment/ corrigendum or extension of due date etc.
6. No tender shall be accepted/opened in case of receipt after due date and time of tender, irrespective of delay due to any reasons and the Corporation shall not assume any responsibility for late receipt of tender.
7. The Earnest Money Deposit and tender fee plus GST as applicable will be accepted by NEFT/RTGS/Online payable at Junagadh drawn in favor of "**GUJARAT ENERGY TRANSMISSION CORPORATION LTD.**" Tender without EMD and tender fee plus GST as applicable shall be rejected.
8. 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.
9. **Suitable payment option can be selected for Tender Fee & EMD. Amount should be paid either by RTGS/NEFT/Online.**
payment through RTGS/NEFTOnline bidder has to mail following details:

Sr. No.	Required Details	
1	Name & Address of Bidder	
2	Bidder GST No.	
3	Tender Notice No. with due Dt.	
4	Mode of Transfer	
5	Ref. ID with Bank details	
6	Paid Amount	
7	Payment against (Tender Fee/EMD)	

Mail To,

1. aojunagadh.getco@gmail.com
2. cashierjunagadh.getco@gmail.com
3. cashier.junagadhcircle@gmail.com

Bidder has to provide all above details on the same date of payment so that receipt can be generated.

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

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

Yours faithfully,

Superintending Engineer (AM)

Transmission Circle office

GETCO Junagadh

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

Download Tender Documents in (PDF Format) which consists of:

Part-I: Commercial Terms & conditions

Part-II: Technical specifications & GTP'S, Schedule "A" indicating the quantity & drawings if any.

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

Note:

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 Infotower, S.G.Road,

Bodakdev Ahmedabad-380054 (Gujarat)

Toll Free: 1-800-233-1010 (Ext. 501, 512,516, 517, 525),

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Phone No. 079-26857315/316/317,

Fax: 079-26857321/ 40007533, Email: nprocure@gnvfc.net

GETCO Junagadh Circle Beneficiary Bank Detail Is As Under

1	Name of Account Holder	THE SUP ENG (TRANS) GETCO TR CIRCLE NON OPERATIVE A/C
2	Account Number	66000382476
3	Name Of Bank	STATE BANK OF INDIA
4	Branch Code	60445
5	Address Of Bank	ZANZARDA ROAD - JUNAGADH
6	IFSC Code	SBIN0060445
7	PAN No.	AABCG4029R
8	TAN No.	RKTG00895G
9	GST No.	24AABCG4029R2ZC

Payment of Earnest Money Deposit (EMD) and Tender Fee should be accepted by RTGS/NEFT/Online only along with Tender. Also submit bank payment proof i.e. Bank statement. If possible, please inform to our Account Department for the said payment through phone/email for verification.

1. Payment of Tender Fee

- Payment of Tender Fees can be accepted by RTGS/NEFT/Online.

2. Payment of Earnest Money Deposit (EMD)

- Payment of Earnest Money Deposit (EMD) can be accepted by RTGS/NEFT/Online.

3. Documents with Bid submission

- Bidder has to upload scanned copies of original (Notarized/ Self attested copies of original – as specified in tender documents) documents with bid and no physical documents to be called from bidder.

It shall be sole Responsibility of the bidder that the uploaded scanned documents (in PDF form) remain legible and should not be password protected.

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**GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
BARODA**

Date :

INTEGRITY PACT**OUR ENEAVOUR**

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 a the nation.

GETCO COMMITMENT

- ☐ To maintain the highest ethical standards in business and professional
- ☐ Ensure maximum transparency to the Satisfaction of stakeholders.
- ☐ To ensure to fulfill the terms of agreement / contract and to consider objectively the viewpoint of parties.
- ☐ To ensure regular and timely release of payment on due dates for work done.
- ☐ To ensure that no improper demand is made by employees or by anyone on our behalf.
- ☐ 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 ensure minimum hurdles to Vendors/ suppliers / contractors in complete of agreement / contract / work order.

PARTY'S COMMITMENT

- ☐ Not to bring pressure / recommendations outside GETCO to influence its decision.
- ☐ 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.
- ☐ To provide goods and / or services timely as per agreed quality and specifications at minimum cost of GETCO.
- ☐ To abide by the general discipline to be maintained in our dealings.
- ☐ To be true and honest in furnishing information including payment to agents / sub-agent.
- ☐ Not to divulge any information, business details available during the course of business relationship to others without the written consent of GETCO.
- ☐ Not to enter into carter / syndicate / understanding whether formal / non-formal so as to influence the price.

**Seal & Signature
(GETCO Authorized Signatory)**Name :
Designation :**Seal & Signature
(Party's Authorized Person)**

Name :

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Annexure-1 (to be upload online)		
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	

Stamp & Signature of contractor

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Annexure-2 (to be upload online)								
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	Actual 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								

Stamp & Signature of contractor

Annexure-3 (to be upload online)			
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			

Stamp & Signature of contractor

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ANNEXURE-4 (to be upload online)**Qualification Requirement Terms.**

Contractor must fill up below details

TENDER NOTICE No: TCJND/2026-27/N-83

1.	PRICES: [FIRM ONLY] (Please Specify YES / NO.)	
2.	PENALTY TERMS AGREED (Please Specify YES / NO.)	
3.	SECURITY TERMS AGREED: (Please Specify YES / NO.)	
4.	TENDER TERMS AGREED: (Please Specify YES / NO.)	
5.	VALIDITY Of the offer for 180 DAYS From the date of opening of the Technical Bid: AGREED: (Please Specify YES / NO.)	
6.	PAYMENT TERMS AGREED: (Please Specify YES / NO.)	
7.	MOBILE NOS., TELEPHONE NOS. & FAX NO:	
8.	Authorized person of the firm :	
9.	Name of the proprietor, partners, directors [as the case may be], along with address, telephone, fax no. etc.	

Signature of Tenderer

Company's Round Seal

Date :

Place:

ANNEXURE-5 (to be upload online)**(On the letter pad of the company)**

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

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

Ref: Tender Notice No. **TCJND/2026-27/N-83**

All bidders will have to furnish the following undertaking dully 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 / MGVCCL / UGVCL /
PGVCL.

Seal of the Firm

Signature of the Tenderer

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ANNEXURE-6 (to be upload online)
(On the letter pad of the company)

UNDERTAKING IN RESPECT OF REFERENCE TO NCLT UNDER INSOLVENCY & BANKRUPTCY CODE

Subject: - Undertaking in respect of reference to nclt under insolvency & bankruptcy code

Name of Work:

Tender No. TCJND/2026-27/N-83

In connection with above subject, I / We confirm that our firm is not declared in NCLT under Insolvency & Bankruptcy Code. Further, I / We also agree that, if any found NCLT under Insolvency & Bankruptcy Code, the offer shall be out rightly rejected without assigning any reason thereof.

(Seal, Sign & Name of Authorized Signatory of Bidder)

ANNEXURE-7 (to be upload online)
Declaration Of Conflict On Interest
(On the letter pad of the company)

To
The Superintending Engineer
Gujarat Energy Transmission Corporation Limited.,
Circle Office, Dhandhusar road, Opp. Nandbava Gaushala,
66KV Zanzarda substation,
Junagadh – 362 015

Ref: Tender Notice No: **TCJND/2026-27/N-83**

With reference to above your tender Notice No.....

For the work

of.....
.....
.....

We do not have any conflict of interest with any other bidder who has submitted the bid in this tender.

Yours Faithfully,

Stamp & Signature of contractor

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ANNEXURE -8**No deviation certificate****(On the letter pad of the company)****Sub:****Reference: Tender Notice no. : TCJND/2026-27/N-83**

In connection with the above subject and reference, I/ We confirm the following:

1. I / We, the under signed have read and examined the Tender Specifications in tender mentioned under reference along with the Commercial terms and conditions.
2. I / We, declare that our Technical Bid is strictly in line with the Tender specifications.
3. Further, I /We also agree that additional conditions / deviations, if any, found in the commercial terms & conditions, our offer shall be out rightly rejected without assigning any reason thereof.

Seal of the Firm**Signature of the Authorized
Representatives of the firm****Date:****ANNEXURE -9****Declaration Relationship with employee****(On the letter pad of the company)****ANNEXURE -10****UNDERTAKING FOR LABOUR LAWS****(On the letter pad of the company)**

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Technical Qualification requirement

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

1. Registration:

The bidder shall be strictly registered with GEDA. Document proof should be submitted.

2. Experience:

The Bidder should have designed, supplied, installed & commissioned Grid connected Solar PV Power Projects having aggregate capacity not less than **110 KW** in Residential/ commercial Sector during last three years in any Government department of Gujarat/ Semi government/Institute/Firm in Gujarat as main contractor.

Submit Work order and completion certificates, which includes Party details, Installer details and solar plant details.

3. Electrical contractor license with latest validation.**Financial Qualification requirement:**

1. Payment of Tender fee and EMD By RTGS/NEFT/Online
2. Copy of active 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.
7. Attested copy of MSME registration (If applicable)
8. Declaration for Relationship with employee. **(Annex. 9)**
9. Under taking in respect of reference to NCLT under Insolvency & Bankruptcy Code.
The undertaking is to be furnished by the bidder in its bid as per the format attached and shall be deemed to be part of the bidding schedule and submitted along with QR Bid. **(Annex. 6)**
10. **ANNEXURE- 1 to 10 (duly signed copy) (All Declaration should be submitted as duly signed copy instead of just fixing image of signature on all the declaration.)**
11. **Technical bid (All pages of TENDER i.e. technical specification & condition etc. of TENDER with stamp & signature. Also, all the annexure must duly have filled by bidder/'s)**
12. Last 3-year Income Tax return

HR. Qualification:

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.

NOTE:- Along with above QUALIFICATION requirement, bidder should submit,

1. All documents should be submitted duly self-attested by the bidder in online through nProcure only.
2. તમામ જરૂરી દસ્તાવેજો, સ્વ-પ્રમાણિત કરી અને ફક્ત n-Procure માં જ ઓનલાઈન સબમિટ કરવાનાં રહેશે.

Superintending Engineer

**GETCO**

ગુજરાત એનર્જી ટ્રાન્સમિશન કોર્પોરેશન લિ.
Gujarat Energy Transmission Corporation Ltd.
ગુજરાત સરકારનું સાહસ Government of Gujarat Undertaking

CIRCLE OFFICE JUNAGADH

Add: 1st Floor, Office Building, 66KV Zanzarda SS Compound, Opp. Nandbava Gaushala, Dhandhusar Road, Zanzarda, Junagadh-362015.

E-mail: setrjunagadh.getco@gmail.com

GETCO, Circle Office, Junagadh.

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 **"Tender for Survey, Design, Supply, Installation, Commission and maintenance of Solar PV System for 5 years as a rooftop at Control Room terrace of various Substations of Keshod, Kodinar and Junagadh AM division under Circle Office GETCO Junagadh. (Package -3)"** 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 execution 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 work is to be carried out on 'Turn Key Basis' which includes survey, supply of SPV systems with all accessories and equipment, metering, installation, testing commissioning and maintenance services for 5 years, of the GEDA's identified sites with free replacement warranty on Spare parts against manufacturing defects for five years. also includes obtaining permission of concern DISCOM and Chief Electrical inspector (CEI) approvals. i.e
 - a) Survey of identified sites/ prospective beneficiaries of GEDA
 - b) Preparation of Detailed Project Report (DPR) of the proposed Proposal of SPV Power Plant.
 - c) Registration of the Project on GEDA online portal with necessary fees, Obtaining No objection certificate, net metering connectivity agreements from concerned DISCOM for grid connectivity and CEI's approval and payment of CEI Inspection Charges, Connectivity charges, Meter charges, Meter testing and SMC box charges etc EXCEPT charges for Strengthening of the DISCOM Network, if required.
 - d) The work covers Design, supply, installation, commissioning and comprehensive maintenance for FIVE years, including grid connectivity charges, meter charges etc.
 - e) Design, supply, civil work, erection, testing and commissioning of SPV grid connected Power Plant as per schedule given in the work order.
 - f) Installation of solar meter and bi-directional meters along with second line of protection in the system such as SPD etc
 - g) Installation of Remote Monitoring facility along with necessary dongle etc. for the period of 5 years.
 - h) The scope of the work covers cleaning and washing of the Photovoltaic Modules regularly (Two times in a month) to ensure annual capacity utilization factor of 17 % during the five years CMC.
- 10 **Periodical maintenance:**

The record of down time and up time and periodical maintenance at least in every quarter shall have to be maintained by the Empanelled Agency in register as well as computer based software and shall have Mandatorily to be submitted to GETCO Circle office at the end of every Quarter. Non submission of the report shall be considered as "Breach of Contract" and shall attract punitive actions like encashment of PBG will be applicable and the decision of GETCO shall be final in this regard.

Notices, Statements and other communications sent by GETCO through registered post or e-mail or fax to the EOI applicant / Empanelled Agency at his specified address shall be deemed to have been delivered to the EOI applicant.

 - **Installation of remote Monitoring facility along with necessary dongle etc. for the period of 5 Years.**
 - **The Scope of work covers cleaning and washing of the Photovoltaic modules regularly (Two times in a month to ensure annual capacity utilization factor of 17% during the five years CMC.**

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- 11. Grouting for structure of Solar Roof Top should be done with ceiling slab of building such that, no water leakage should occur from control room ceiling through the grouted leg. Also, water proofing chemical/cement should be used invariably for concreting of structure leg.**

Safety Clause

- 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.
- 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.40000/- 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: -

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

3. Safety Requirement:

- 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.
- During site visit by GETCO official of Executive Engineer and above rank, the following checks during execution of work shall be covered.
 - Safety equipment available and utilize.
 - Helmet.
 - Safety belt.
 - Safety shoes.
 - Live line Voltage detector
 - Safety procedure adopted.
 - Permit to work
 - Earthing at the place of work.
 - Adequate supervision.
 - T & P physical Check. (Healthiness and Quality)
 - P. P. rope.
 - Wire rope and sling.
 - Earthing rod
 - 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)**
 - 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.

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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.

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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 fire fighting 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.

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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.	

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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.

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Technical Specification

Tender for Survey, Design, Supply, Installation, Commission and maintenance of Solar PV System for 5 years as a rooftop at Control Room terrace of various Substations of Keshod, Kodinar and Junagadh AM division under Circle Office GETCO Junagadh. (Package -3)

The assorted rating of the solar rooftop system for which the rates shall be discovered are as follows.

Sr. No.	Division	Name of Substation	SRT in KW	Scheme
1	Junagadh	66KV Chuda	13.00	As per GETCO Corporate Office Letter No. 26-27/CE(AM)/SE(AM)/EE(R&M)/Solar Roof top/804 Dt. 05.08.2026
2	Junagadh	66KV Motibaug	13.00	
3	Junagadh	66KV Bhesan	17.00	
4	Junagadh	66KV Bilkha	12.00	
5	Junagadh	66KV Choki	13.00	
6	Junagadh	66KV Vadia	11.00	
7	Junagadh	66KV GIDC Junagadh	21.00	
8	Keshod	66KV Mangrol	14.00	
9	Keshod	66KV Veraval	19.00	
10	Keshod	66KV P. Patan	18.00	
11	Keshod	66KV Chorvad	15.00	
12	Kodinar	66KV Dudhala	10.00	
13	Kodinar	66KV Devli	10.00	
14	Kodinar	66KV Moradiya	10.00	
15	Kodinar	66KV Bhetali	13.00	
16	Kodinar	66KV Alampur	10.00	

Note:- (Project capacity will be considered in AC. Payment to Bidder will be done on AC Capacity Registered, DC Capacity Installed, and Inverter Installed, whichever will be less.)

The broad specifications of the system (Detailed Specifications are given in the Tender elsewhere) shall be as follows:

- Solar PV Modules:** - Mono Crystalline (Bi-facial) solar module not less than 520 Wp (i.e. 520Wp OR Higher Wp) each and having valid IEC certificate. (Certificate to be submitted on shortlisting of successful Tenders). **The PV Cell and the modules shall be of INDIAN MAKE.** Necessary documents in this regards must be provided to GEDA/GETCO. Solar PV Modules should be verified in Govt./DCR Portal.

The bidder shall be required to submit the Self declaration, regarding the Modules and Solar cells used under this supply are **"Made in India"**, from the concerned manufacturer of Solar Modules, before commissioning of the System. Such firm and Shortlisted bidder, those violate the requirement of Indian Make Solar Cell and Module shall be put under the black list, and or stop deal list as may be decided by the GEDA/GETCO.

Violation of norms of Domestic Content Requirement (DCR) Under Solar PV projects will lead to penalties and action as mentioned in office memorandum of MNRE GOI vide letter no. 283/2018-GRID SOLAR dated 20th February, 2018.

The ALMM list is published by the MNRE vide Notification No. 283/54/2018-Grid Solar-Part(1) Dated 30-12-2021 and the notification for the same is also published by the MNRE vide Notification No.

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283/54/2018-Grid Solar-Part(2) Dated 13-01-2022. The Model and Manufactures of the Module and Cell shall be from the ALMM only used in the SPV System in this project.

- 2) **Inverter:** - IEC certified inverter with in-built anti-islanding facility of Rated capacity plus minus 10% of the aggregate capacity of the modules.
- 3) **Mounting structure:** - The mounting (Rectangle pipe/square pipe / circular pipe) with requisite cross bars, nuts and bolts etc. shall be pre-galvanized or galvanized. The Rectangular /square / circular hollows pipe section used for the structures should have a minimum 2 mm. A certificate of a structural engineer certifying the strength and stability of the mounting structure to withstand the weight and wind speed of 150 km/hour throughout the life span of 25 years of the system, shall be submitted by the vendors. The ground clearance of the bottom most edge of solar panel shall not be less than 1200 mm.
- 4) AC, DC cable shall be of ISI mark and reputed make.
- 5) Lightning arrestor shall be provided for each of the Solar Rooftop installations. It shall be of ISI mark and reputed make.
- 6) The system cost shall be inclusive of supply of solar modules, invertors, mounting structure, AC DC cables in RPVC conduit as per requirement on location (Rate include supply of minimum AC Cable length Upto 30 Meter/Building), AC - DB, DC - DB, earthing, LA, Bidirectional meter, Solar AC Meter and its installation. No any differential/additional Charges for LT Bidirectional meter will be reimbursed.
The rate quoted per kW for each project should be inclusive of all taxes. No rate revision under this tender will be allowed in any circumstances.
- 7) The scope of regular cleaning of the modules for five years shall also be in the scope of Bidder. The Arrangement of required water etc for regular cleaning of the modules shall be in the scope of the Bidder.
- 8) **The payment terms towards the supply, Installation, commissioning and 5 years CMC shall be as follows:**
 - a) The contractor shall have to submit the RA bill of order to the concerned Deputy/Junior Engineer of sub-division of concerned division for payment **up to 50% amount** against supply of material.
 - b) **30% of the order value upon certification of GEDA/third party approved by GEDA and commissioning of the system upon installation of the bidirectional and solar meter and complete the installation process with uploading of all documents on GEDA online portal, or as may be specified.**
 1. Bills
 2. Installation certificate duly signed by beneficiary/GEDA official/third party showing its commissioning date (date of bi-directional meter installation)

Note: Performance Guarantee for 5 years –CMC:

You have to Submit 20% of the order value against the equivalent amount of performance bank guarantee/ Demand draft valid for a period of 5 years from the date of commissioning of the system. (date of meter Installation)

- 9) it shall be mandatory for the Vendor to visit the system installation site every 3month and submit a report to GEDA/Concern duly sign by the authority of beneficial agency/office for the system working satisfactorily, in prescribed format, including the electricity generation record of the solar meter and bi directional meter reading.

TECHNICAL SPECIFICATIONS FOR GRID CONNECTED SPV SYSTEMS

The specifications of SPV systems, for which EOI are invited, are as under. The self-certified Test Report(s) of each of the components/ systems mentioned shall be submitted before starting System installation. To ensure optimum performance of the solar installation and its related safety aspects, the provisions of the publication of GERMi on "Best Practices in Operation and Maintenance of Roof Top Solar PV systems in India" published in May, 2018 be followed.

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The proposed projects shall be commissioned as per the technical specifications given below. Any short comings will lead to cancelation of Empanelment as may be decided by GETCO. The specifications, in the GERC Regulation on Net Metering shall also be applicable.

1. DEFINITION:

A Grid Tied Solar Rooftop Photo Voltaic (SPV) power plant consists of SPV array, Module Mounting Structure, Power Conditioning Unit (PCU) consisting of Maximum Power Point Tracker (MPPT), Inverter, and Controls & Protections, interconnect cables, solar meter, bi-directional energy meter and switches. PV Array is mounted on a suitable structure. Grid tied SPV system is without battery and should be designed with necessary features to supplement the grid power during daytime. Components and parts used in the SPV power plants including the PV modules, metallic structures, cables, junction box, switches, PCUs etc., should confirm to the BIS, IEC, or international specifications, wherever such specifications are available and applicable.

Solar PV system shall consist of following equipment/components.

1. Solar Photo Voltaic (SPV) modules consisting of required number of Crystalline PV modules.
2. Inverter and Remote Monitoring System.
3. Module mounting structures.
4. Energy Meter.
5. Array Junction Boxes.
6. DC Distribution Box.
7. AC Distribution Box.
8. Protections – Earthing, Lightning, Surge.
9. Cables.
10. Drawing & Manuals.
11. Miscellaneous.

a. SOLAR PHOTOVOLTAIC MODULES:

1.1.1 The PV modules and Solar Cell used should be made in India. Necessary documents in this regards must be provided to GETCO.

Violation of norms of Domestic Content Requirement (DCR) UNDER Solar PV projects will lead to penalties and actions as mentioned in office memorandum of MNRE GOI vide letter no. 283/2018-GRID SOLAR dated 20th February, 2018 as under:

- a) Filing of criminal case under IPC 420 and related Sec.
- b) Blacklisting of developers for period of 10 years
- c) Forfeiting of relevant bank guarantee(s)
- d) Disciplinary case against the Officers of concerned CPSU/ State Govt.
- e) Any other action, in addition to those above

SPV Modules and Solar Cells must be used for this Scheme shall be domestically manufactured as per MNRE's requirement. The Empanelled Agencies shall require to submit the Self declaration, regarding the Modules and Solar cells used under the Scheme are "Made in India", from the concerned manufacturer of Solar Modules, supplied for this scheme of GoG/GOI, before commissioning of the System. Violation of this condition will be reported to the MNRE and GoG for taking actions against the Manufacturer of the Solar Modules and Empanelled Agency. Such firm and Empanelled Agency may be put under the black list or stop deal list as may be decided by the DISCOM Authority.

In absence of the ALMM, the Empanelled Agencies shall have to submit self-declaration regarding domestically manufactured Cell and Modules used in the SPV System in this project. Whenever, the ALMM list published by the MNRE, the Model and Manufactures of the Module and Cell shall be from the ALMM only used in the SPV System in this project.

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The PV modules used must qualify to the latest edition of IEC standards or equivalent BIS standards, i.e. IEC 61215/IS14286, IEC 61853-Part I/IS 16170-Part I, IEC 61730 Part-1 & Part 2. For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701/IS 61701.

- a) The total solar PV array capacity should not be less than allocated capacity (kWp) and should comprise of solar **Mono Crystalline (Bi-facial) type modules of minimum 520 Wp**. Module capacity less than **520** watts shall not be accepted
- b) Protective devices against surges (SPD) at the PV module shall be provided. Low voltage drop bypass diodes shall be provided.-Surge Protective Device (SPD) of appropriate capacity & type shall be provided either in the inverter or in DC Junction Box for protection against surges. Low voltage drop bypass diodes shall be provided.
- c) PV modules must be tested and approved by one of the NABL accredited and BIS Approved test centers.
- d) The module frame shall be made of corrosion resistant materials, preferably having anodized aluminum.
- e) The bidder shall carefully design & accommodate requisite numbers of the modules to achieve the rated power in his bid.
- f) Solar PV modules of minimum fill factor 75%, to be used..
- g) Other general requirement for the PV modules and sub systems shall be the following:

- I. The rated power of solar PV module shall have maximum tolerance up to +3%.
- II. The peak-power point current of any supplied module string (series connected modules) shall not vary by +1% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case may be.

The peak-power point voltage of any supplied module string (series connected modules) shall not vary by + 2% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case may be.

- III. All electrical parameters at STC shall have to be provided.
- IV. Minimum certified PV module efficiency shall be +17 % for crystalline The temperature co-efficient power of the PV module shall be equal to or better than -0.45%/°C
- V. All PV modules should carry a performance warranty of >90% during the first 10 years, and >80% during the next 15 years. Further, module shall have performance warranty of >97% during the first year of installation. Degradation of module should not be more than 1 % per annum.

The PV modules shall be equipped with IP 65 or better protection level junction box with required numbers of bypass diodes of appropriate rating and appropriately sized output power cable of symmetric length with MC4 or equivalent solar connectors. The IP level for protection may be chosen based on following conditions:

- i. An IP 65 rated enclosure is suitable for most outdoor enclosures that won't encounter extreme weather such as flooding.
- ii. An IP 67 rated enclosure is suitable at locations which may encounter temporary submersion at depths of up to one meter.
- iii. An IP 68 enclosure is recommended if there may exist situations of submergence for extended periods of time and at substantial depths.
- iv.

- 1.1.3. Modules deployed must use a RF identification tag. The following information must be mentioned in the RFID used on each modules (This can be inside or outside the laminate, but must be able to withstand harsh environmental conditions).

- a) Name of the manufacturer of the PV module
- b) Name of the manufacturer of Solar Cells.
- c) Month & year of the manufacture (separate for solar cells and modules)
- d) Country of origin (separately for solar cells and module)
- e) I-V curve for the module Wattage, Im, Vm and FF for the module
- f) Unique Serial No and Model No of the module
- g) Date and year of obtaining IEC PV module qualification certificate.

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- h) Name of the test lab issuing IEC certificate.
- i) Other relevant information on traceability of solar cells and module as per ISO 9001 and ISO 14001
- j) Nominal wattage +3%.
- k) Brand Name, if applicable.

Other details as per IS/IEC 61730-1 clause 11 should be provided at appropriate place. The actual Power Output Pmax shall be mentioned on the label pasted on the back side of PV Module. In addition to the above, the following information should also be provided:

- i. Polarity of terminals or leads (color coding is permissible) on junction Box housing near cable entry or cable and connector.
- ii. The Maximum system voltage for which the module is suitable to be provided on the back sheet of the module.

1.1.4. Warranties:

- a) **Material Warranty:**
 - i. Material Warranty is defined as: The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a period not less than five (05) years from the date of commissioning.
 - ii. Defects and/or failures due to manufacturing
 - iii. Defects and/or failures due to quality of materials
 - iv. Non conformity to specifications due to faulty manufacturing and/or inspection processes. If the solar Module(s) fails to conform to this warranty, the manufacturer will repair or replace the solar module(s), at the Owners sole option.
- b) **Performance Warranty:**
 - i. The predicted electrical degradation of power generated not exceeding 20% of the minimum rated power over the 25 year period and not more than 10% after ten years period of the full rated original output.

2. ARRAY STRUCTURE:

The mounting structure steel shall be as per latest IS 2062: 2011 and hot dip galvanization of the mounting structure shall be in compliance of latest IS 4759.

Module Mounting Structure (MMS):

- 3.1. Supply, installation, erection and acceptance of module mounting structure (MMS) with all necessary accessories, auxiliaries and spare part shall be in the scope of the work.
- 3.2. Module mounting structures can be made from two types of materials. They are Hot Dip Galvanized Iron or Hot Dip Galvanized Mild Steel (MS). However, MS will be preferred for raised structure.
- 3.3. MMS Steel shall be as per latest IS 2062:2011 and galvanization of the mounting structure shall be in compliance of latest IS 4759.
- 3.4. All bolts, nuts, fasteners shall be of stainless steel of grade SS 304 or hot dip galvanized, panel mounting clamps shall be of aluminum and must sustain the adverse climatic conditions. Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts.
- 3.5. The module mounting structures should have angle of inclination as per the site conditions to take maximum insolation and complete shadow-free operation during generation hours. However, to accommodate more capacity the angle of inclination may be reduced until the plant meets the specified performance ratio requirements.
- 3.6. The Mounting structure shall be so designed to withstand the speed for the wind zone of the location where a PV system is proposed to be installed. The PV array structure design shall be appropriate with a factor of safety of minimum 1.5.

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- 3.7. The upper edge of the module must be covered with wind shield so as to avoid build air ingress below the module. Slight clearance must be provided on both edges (upper & lower) to allow air for cooling.
- 3.8. Suitable fastening arrangement such as grouting and calming should be provided to secure the installation against the specific wind speed. The Empanelled Agency shall be fully responsible for any damages to SPV System caused due to high wind velocity within guarantee period as per technical specification.
- 3.9. The structures shall be designed to allow easy replacement, repairing and cleaning of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels. Necessary testing provision for MMS to be made available at site.
- 3.10. Adequate spacing shall be provided between two panel frames and rows of panels to facilitate personnel protection, ease of installation, replacement, cleaning of panels and electrical maintenance.
- 3.11. The structure shall be designed to withstand operating environmental conditions for a period of minimum 25 years.
- 3.12. The Rooftop Structures maybe classified in three broad categories out of one as follows
 - I. **RCC Elevated structure:** It can be divided into further three categories:
 - A. **Minimum Ground clearance (300MM – 1200 MM)**
 - a. The structure shall be designed to allow easy replacement of any module and shall be in line with site requirement. The gap between modules should be minimum 30MM.
 - b. Base Plate – Base plate thickness of the Structure should be 5MM for this segment.
 - c. Column – Structure Column should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be **80MM** in Web side and 40MM in flange side in Lip section.
 - d. Rafter - Structure rafter should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be **80MM** in Web side (y-axis) and 40MM in flange side (x-axis).
 - e. Purlin - Structure purlin should be minimum 2MM in Lip section. The minimum section should be 60MM in Web side and 40MM in flange side in Lip section.
 - f. Front/back bracing – The section for bracing part should be minimum 2MM thickness.
 - g. Connection – The structure connection should be bolted/welded completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.
 - h. For single portrait structure, the minimum ground clearance should be 500MM.
- 3.13. Material standards:
 - i. Design of foundation for mounting the structure should be as per defined standards which clearly states the Load Bearing Capacity & other relevant parameters for foundation design (As per IS 6403 / 456 / 4091 / 875).
 - ii. Grade of raw material to be used for mounting the structures so that it complies the defined wind loading conditions (As per IS 875 - III) should be referred as follows (IS 2062 – for angles and channels, IS 1079 – for sheet, IS 1161 & 1239 for round pipes, IS 4923 for rectangular and square hollow section)
 - iii. Test reports for the raw material should be as per IS 1852 / 808 / 2062 / 1079 / 811.
 - iv. In process inspection report as per approved drawing & tolerance should be as per IS 7215.
 - v. For ascertaining proper welding of structure part following should be referred:
 - a. D.P. Test (Pin Hole / Crack) (IS 822)
 - b. Weld wire grade should be of grade (ER 70 S - 6)
 - vi. For ascertaining hot dip galvanizing of fabricated structure following should be referred: -
 - a. Min coating required should be as per IS 4759 & EN 1461.
 - b. Testing of galvanized material
 - Pierce Test (IS 2633)
 - Mass of Zinc (IS 6745)
 - Adhesion Test (IS 2629)
 - CuSO4 Test (IS 2633)
 - Superior High Grade Zinc Ingot should be of 99.999% purity (IS 209) (Preferably Hindustan Zinc Limited or Equivalent).
 - vii. Foundation Hardware – If using foundation bolt in foundation then it should be as per IS 5624.

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- 3.14. Design Validation- The Structure design and drawing should be duly verified by a licensed Structural designer before installation for all types of structure arrangements including the extension made, as per specification.
- 3. JUNCTION BOXES (JBs):**
- The junction boxes are to be provided in the PV array for termination of connecting cables. The Junction Boxes (JBs) shall be made of GRP/FRP/Powder Coated aluminium /cast aluminium alloy with full dust, water & vermin proof arrangement. All wires/cables must be terminated through cable lugs. The JBs shall be such that input & output termination can be made through suitable cable glands. **Suitable markings shall be** provided on the busbars for easy identification and cable ferrules will be fitted at the cable termination points for identification.
 - Copper bus bars/terminal blocks housed in the junction box with suitable termination threads Conforming to IP65 standard and IEC 62208 Hinged door with EPDM rubber gasket to prevent water entry. Single /double compression cable glands should be provided.
 - For array junction box/ PV combiner box, Empanelled Agency may also provide polyamide glands and MC4 Connectors. The rating of the junction box shall be suitable with adequate safety factor to interconnect the Solar PV array
 - Suitable markings shall be provided on the bus bar for easy identification and the cable ferrules must be fitted at the cable termination points for identification.
 - Junction boxes shall be mounted on the MMS such that they are easily accessible and are protected from direct sunlight and harsh weather.
- 4. DC DISTRIBUTION BOX (DCDB):**
- May not be required for small plants, if suitable arrangement is available in the inverter.
- DC Distribution Box (DCDB) to receive the DC output from the PV array field.
 - DC DBs shall be dust & vermin proof conform having. IP 65 or better protection, as per site conditions.
 - The bus bars are made of EC grade copper of required size. Suitable capacity MCBs/MCCB shall be provided for controlling the DC power output to the inverter a long with necessary surge arrestors. MCB shall be used for currents up to 63 Amperes, and MCCB shall be used for currents greater than 63 Amperes
- 5. AC DISTRIBUTION BOX (ACDB):**
- AC Distribution Panel Board (DPB) shall control the AC power from PCU/inverter, and should have necessary surge arrestors. Interconnection from ACDB to mains at LT Bus bar while in grid tied mode.
 - All switches and the circuit breakers, connectors should conform to IEC60947:2019, part I, II and III/ IS60947 part I, II and III.
 - The changeover switches, cabling work should be undertaken by the bidder as part of the project.
 - All the Panel's shall be metal clad, totally enclosed, rigid, floor mounted, air -insulated, cubical type suitable for operation on three phase / single phase, 415 or 230 volts, 50 Hz
 - The panels shall be designed for minimum expected ambient temperature of 45 degree Celsius, 80 percent humidity and dusty weather.
 - All indoor panels will have protection of IP54 or better. All outdoor panels will have protection of IP65 or better as per site conditions.
 - Should conform to Indian Electricity Act and CEA safety regulations (till last amendment).
 - All the 415 AC or 230 volts devices / equipment like bus support insulators, circuit breakers, SPDs, VTs etc., mounted inside the switchgear shall be suitable for continuous operation and satisfactory performance under the following supply conditions.
 - Variation in supply voltage: $\pm 10\%$ as per CEA/State regulations.
 - Variation in supply frequency $\pm 3\text{ Hz}$ as per CEA/State regulations.
 - The inverter output shall have the necessary rated AC surge arrestors, if required and MCB/ MCCB. RCCB shall be used for successful operation of the PV system, if inverter does Not have required earth fault/residual current protection.
- 6. PCU/ARRAY SIZE RATIO:**
- The recommended the solar PV array capacity in KW shall be in a range of 100%-110% of inverter capacity. i.e if the Inverter Capacity is 5 KW, then the Solar PV array capacity should be from 5 KW to 5.5 KW.

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7. Inverter and Remote Monitoring System :-**i. Marking:**

All the Inverters should contain the following clear and indelible Marking Label & Warning Label as per IS16221 Part II, clause 5. The equipment shall, as a minimum, be permanently marked with:

- The name or trade mark of the manufacturer or supplier;
- A model number, name or other means to identify the equipment,
A serial number, code or other marking allowing identification of manufacturing location and the manufacturing batch or date within a twelve month time period.
- Input voltage, type of voltage (a.c. or d.c.), frequency, and maximum continuous current for each input.
- Output voltage, type of voltage (a.c. or d.c.), frequency, maximum continuous current, and for a.c. outputs, either the power or power factor for each output
- The Ingress Protection (IP) rating
- As per IS 16221

Marking shall be located adjacent to each fuse or fuse holder, or on the fuse holder, or in another location provided that it is obvious to which fuse the marking applies, giving the fuse current rating and voltage rating for fuses that may be changed at the installed site.

Particulars	Details
Switching devices	IGBT/MOSFET
Control	Microprocessor /DSP
Nominal AC output voltage	For 3-phase/ 1phase :- 415V / 240 V
Output frequency	50 Hz
Grid Frequency Synchronization range	+ 3 Hz or more
Ambient temperature considered	-20° C to + 50° C
Humidity	95 % Non-condensing
Protection of Enclosure	IP-65(Minimum).
Grid Frequency Tolerance range	+ 3 or more
No-load losses	Less than 1% of rated power
Inverter Efficiency(minimum)	(Above 10 kW) Peak Efficiency At least 97%, measure as per IEC 61683 Euro Efficiency At least 96%, measure as per IEC 61683 (Below 10 kW) Peak Efficiency At least 96%, measure as per IEC 61683 Euro Efficiency At least 95%, measure as per IEC 61683
THD	<3%
PF	>0.9
Communication interface	RS 485 with Modbus
Display type	LCD for data display. LCD / LED for status display
Protections	- Over voltage (both input and output) - Over current (both input and output) - Over/Under grid frequency - Over temperature - Short circuit - Lightening - Surge voltage induced at output due to external source - Anti-islanding

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Recommended Alert/Indications	• Inverter ON • Grid ON • Inverter Under / Over Voltage • Inverter Overload • Inverter Over Temperature
Recommended LCD Display on Inverter	• Output power (W) • Daily Energy (Wh) • cumulative energy (Wh) • DC voltage (V) • DC current (A) • AC voltage (V) • AC frequency (Hz) • AC current (A) • Cumulative hours of operation (h).

- The inverter shall have an RS-485 interface and support communication of its operational parameters and logs over Modbus protocol. The register mapping/memory mapping of the inverter data shall be made available by the Empanelled Agency from the inverter supplier to the DISCOMs/GUVNL.
- Three phase PCU/ inverter shall be used with each power plant system above 6KW and In case of 6 KW or less Capacity single phase/3pahse inverter shall be used as per market availability. In case of capacity addition of existing Solar plant, if the existing inverter is required to be replaced, the cost same is to be borne by consumer up on mutual agreement with Agency and consumer.
- The output of power factor of PCU/ inverter is suitable for all voltage ranges or sink of reactive power, inverter should have internal protection arrangement against any sustain fault in feeder line and against the lightning on feeder.
- Built-in meter and data logger to monitor plant performance through external computer shall be provided.
- The power conditioning units / inverters should comply with applicable IEC/equivalent BIS standard for efficiency measurements and environmental tests as per standard codes IEC 61683/IS 61683 and IEC 60068-2(1,2,14,30) /Equivalent BIS Std.
- The charge controller (if any) / MPPT units environmental testing should qualify IEC 60068-2(1, 2, 14, 30)/Equivalent BIS std. The junction boxes/enclosures should be IP 65(for outdoor)/ IP 54 (indoor) and as per IEC 529 Specifications.
- The PCU/ inverters should be tested from the MNRE approved test centers /NABL /BIS /IEC accredited testing- calibration laboratories. In case of imported power conditioning units, these should be approved by international test houses. Valid type test report shall be submitted by the empanelled agency before commissioning of the SPV System.
- All inverters shall be IEC 61000 compliant for electromagnetic compatibility, harmonics, Surge, etc.
- Maximum Power Point Tracker (MPPT) shall be integrated in the PCU/inverter to maximize energy drawn from the array.
- The PCU/ Invertor shall have overloading capacity of minimum 10%
- The allowable capacity of inverter shall be (+15/-10 %) of registered AC Capacity.

8. INTEGRATION OF PV POWER WITH GRID:

- The output power from SPV would be fed to the inverters which converts DC produced by SPV array to AC and feeds it into the main electricity grid after synchronization.
- In the event of a power failure on the electric grid, it is required that any independent power-producing inverters attached to the grid turn off in a short period of time. This prevents the DC-to-AC inverters from continuing to feed power into small sections of the grid, known as "islands." Powered islands present a risk to workers who may expect the area to be unpowered, and they may also damage grid-tied equipment. The Rooftop PV system shall be equipped with islanding protection. In addition to disconnection from the grid (due to islanding protection) disconnection due to under and over voltage conditions shall also be provided.

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- A manual disconnect 4 pole isolation switch beside automatic disconnection to grid would have to be provided at utility end to isolate the grid connection by the utility personnel to carry out any maintenance. This switch shall be locked by the utility personnel.
- 9. **DATA ACQUISITION SYSTEM / PLANT MONITORING**
 - i. Data Acquisition System shall be provided for each of the solar PV plant.
 - ii. Remote Monitoring and data acquisition through Remote Monitoring System software at the GETCO location with latest software/hardware configuration and service connectivity for online / real time data monitoring/control complete to be supplied and operation and maintenance/control to be ensured by the Empanelled Agency. Provision for interfacing these data on GETCO server and portal in future shall be kept as per requirement.
 - iii. Empanelled agency shall ensure that Inverter should have provision of remote monitoring of inverter data through sim card or through Wi-Fi. Required website/mobile app platform, where the user (Consumer) can access the data, should be provided/explained to consumer while installation by Empanelled Agency. The facility of in-built wifi module or communication through sim-card should also be explained to the consumer. Recurring cost of sim card/Data pack for communication shall be borne by consumers. All the inverter data should be made available to GETCO for monitoring by giving web access by sharing the user ID and password. SIM-card cost, Periodic data charges towards data pack and Internet/Wifi connectivity for maintaining Remote Monitoring System shall be the responsibility of Beneficiary.
- 10. **METERING:**
 - a) The bi-directional electronic energy meter (0.5S class) shall be installed for the measurement of Import/Export of energy in co-ordination with GETCO.
 - b) Reverse power relay shall be provided by bidder (if necessary), as per the local DISCOM requirement.

A Roof Top Solar (RTS) Photo Voltaic (PV) system shall consist of following energy meters:

- i. Net meter: To record import and export units
- ii. Generation meter: To keep record for total generation of the plant.
- 3.15. The installation of Generation meters including CTs & PTs, wherever applicable, shall be carried out by the Empanelled Vendor as per the terms, conditions and procedures laid down by the concerned GERC/GETCO.

11. POWER CONSUMPTION:

- a) Regarding the generated power consumption, priority need to give for internal consumption first and thereafter any surplus power can be injected in to the grid.

12. PROTECTIONS

The system should be provided with all necessary protections like earthing, Lightning, and grid islanding as follows:

12.1. LIGHTNING PROTECTION:

- i. The SPV power plants shall be provided with lightning & over voltage protection, if required. The main aim in this protection shall be to reduce the overvoltage to a tolerable value before it reaches the PV or other sub system components. The source of over voltage can be lightning, atmosphere disturbances etc.
- ii. The entire space occupying the SPV array shall be suitably protected against Lightning by deploying required number of Lightning Arrestors (LAs). Lightning protection should be provided as per NFC17-102:2011/IEC 62305 standard.
- iii. The protection against induced high-voltages shall be provided by the use of Metal Oxide Varistors (MOVs)/Franklin Rod type LA/Early streamer type LA.
- iv. The current carrying cable from lightning arrestor to the earth pit should have sufficient current carrying capacity according to IEC 62305. According to standard, the minimum requirement for a lightning protection system designed for class of LPS III is a 6 mm² copper/ 16 mm² aluminum or GI strip bearing size 25*3 mm thick). Separate pipe for running earth wires of Lightning Arrestor shall be used.

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12.2. SURGE PROTECTION

- i. Internal surge protection, wherever required, shall be provided.
- ii. It will consist of three SPD type-II/MOV type surge arrestors connected from +ve and -ve terminals to earth.

12.3. EARTHING PROTECTION

- i. The earthing shall be done in accordance with latest Standards.
- ii. Each array structure of the PV yard, Low Tension (LT) power system, earthing grid for switchyard, all electrical equipment, inverter, all junction boxes, etc. shall be grounded properly as per IS 3043-2018.
- iii. All metal casing/ shielding of the plant shall be thoroughly grounded in accordance with CEA Safety Regulation 2010. In addition, the lightning arrester/masts should also be earthed inside the array field.
- iv. Earth resistance should be as low as possible and shall never be higher than 5 ohms.
- v. separate three earth pits shall be provided for individual three earthing viz.: DC side earthing, AC side earthing and lightning arrester earthing.

12.4. GRID ISLANDING:

- i. In the event of a power failure on the electric grid, it is required that any independent power-producing inverters attached to the grid turn off immediately. This prevents the DC-to-AC inverters from continuing to feed power into small sections of the grid, known as "islands." Powered islands present a risk to workers who may expect the area to be unpowered, and they may also damage grid-tied equipment. The Rooftop PV system shall be equipped with Anti islanding features. In addition to disconnection from the grid (due to islanding protection) disconnection due to under and over voltage conditions shall also be provided.
- ii. A manual disconnect 4 / 2 pole isolation switch (RCCB may also be used) beside automatic disconnection to grid would have to be provided at utility end to isolate the grid connection by the utility personnel to carry out any maintenance.

13. CABLES

Cables of required size to be used in the system shall have the following characteristics:

- i. Shall meet IEC 60227/IS 694, IEC 60502/IS1554 standards
- ii. Temp. Range: -10°C to +80°C.
- iii. Voltage rating 660/1000V
- iv. Excellent resistance to heat, cold, water, oil, abrasion, UV radiation
- v. Flexible
- vi. Sizes of cables between array interconnections, array to junction boxes, junction boxes to Inverter etc. shall be so selected to keep the voltage drop (power loss) of the entire solar system to the minimum. The cables (as per IS) should be insulated with a special grade PVC compound formulated for outdoor use.
- vii. **Cable Routing/ Marking:** All cable/wires are to be routed in a RPVC pipe/ GI cable tray and suitably tagged and marked with proper manner by good quality ferule or by other means so that the cable easily identified.
- viii. The Cable should be so selected that it should be compatible up to the life of the solar PV panels i.e. 25 years.
- ix. The ratings given are approximate. All the cables required for the plant are to be provided by the bidder. Any change in cabling sizes if desired by the bidder/approved after citing appropriate reasons.
- x. Multi Strand, Annealed high conductivity copper conductor PVC type 'A' pressure extruded insulation or XLPE insulation. Overall PVC/XLPE insulation for UV protection Armoured cable for underground laying. All cable trays including covers to be provided. All cables conform to latest edition of IEC/equivalent BIS Standards as specified below: BoS item / component Standard Description Standard Number Cables General Test and Measuring Methods, PVC/XLPE insulated cables for working Voltage up to and including 1100 V, UV resistant for outdoor installation IS / IEC 69947. Aluminium cable may be used on the AC-side of the PV system.

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- xi. The size of each type of DC cable selected shall be based on minimum voltage drop however; the maximum drop shall be limited to 1%.
- xii. The size of each type of AC cable selected shall be based on minimum voltage drop however; the maximum drop shall be limited to 2 %.
- 14. CONNECTIVITY**
The maximum capacity for interconnection with the grid at a specific voltage level shall be as specified in the GERC regulation for Grid connectivity and norms of DISCOM and amended from time to time.
- 15. DRAWINGS & MANUALS:**
 - i. Operation & Maintenance manual/user manual, Engineering and Electrical Drawings shall be supplied along with the each power plant. The manual shall include complete system details such as array lay out, schematic of the system, inverter details, working principle etc. Step by step maintenance and troubleshooting procedures shall be given in the manuals and provided to the beneficiary.
 - ii. ISI marked (wherever applicable) and reputed makes equipment be used.
- 16. SOLAR PV SYSTEM ON THE ROOFTOP**
The Solar PV system on the rooftop of the premises will be installed for PV capacity permitted by GETCO as per regulation issued by GERC.
- 17. SAFETY MEASURES:**
The bidder shall take entire responsibility for electrical safety of the installation(s) including connectivity with the grid and follow all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA Safety Regulation 2010 etc.
- 18. DOCUMENTATION:**
Operation & Maintenance manual / user manual shall be supplied along with the each power plant. The manual shall include complete system details such as array lay out, schematic of the system, inverter details, working principle etc. Step by step maintenance and troubleshooting procedures shall be given in the manuals and provided to the beneficiary.
- 19. SHADOW ANALYSIS:**
The shadow analysis report with the instrument such as Solar Pathfinder or professional shadow analysis software of each site has to be submitted by Bidder and shall be his responsibility to educate the user to install the system only in shadow free space. Lower performance of the system due to shadow effect shall be the responsibility of the bidder and shall be liable for penalty for lower performance.

Quality Certification, Standards and Testing for Grid-Connected Rooftop Solar PV Systems/Power Plants

Solar PV Modules/Panels	
IEC 61215 and IS 14286	Design Qualification and Type Approval for Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
IEC 61701:2011	Salt Mist Corrosion Testing of Photovoltaic (PV) Modules
IEC 61853- 1:2011 / IS 16170-1:2014	Photovoltaic (PV) module performance testing and energy rating –: Irradiance and temperature performance measurements, and power Rating.
IEC 62716	Photovoltaic (PV) Modules – Ammonia (NH3) Corrosion Testing (as per the site condition like dairies, toilets etc)

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IEC 61730-1,2	Photovoltaic (PV) Module Safety Qualification – Part 1: Requirements for Construction, Part 2: Requirements for Testing
IEC 62804	Photovoltaic (PV) modules – Test method for detection of potential-induced degradation. IEC 62804-1: Part 1: Crystalline Silicon
Solar PV Inverters	
IEC 62109 or IS : 16221	Safety of power converters for use in photovoltaic power systems – Part 1: General requirements, and Safety of power converters for use in photovoltaic power systems Part 2: Particular requirements for inverters. Safety compliance (Protection degree IP 65 or better for outdoor mounting, IP 54 or better for indoor mounting)
IS/IEC 61683 latest (as applicable)	Photovoltaic Systems – Power conditioners: Procedure for Measuring Efficiency (10%, 25%, 50%, 75% & 90-100% Loading Conditions)
IEC 60068-2 /IEC 62093 (as applicable)	Environmental Testing of PV System – Power Conditioners and Inverters
IEC 62116:2014/ IS16169	Utility-interconnected photovoltaic inverters - Test procedure of islanding prevention measures
Fuses	
IS/IEC 60947 (Part 1, 2 & 3), EN 50521	General safety requirements for connectors, switches, circuit breakers (AC/DC): 1) Low-voltage Switchgear and Control-gear, Part 1: General rules 2) Low-voltage Switchgear and Control-gear, Part 2: Circuit Breakers 3) Low-voltage switchgear and Control-gear, Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units 4) EN 50521: Connectors for photovoltaic system-Safety requirements and tests
IEC 60269-6:2010	Low-voltage fuses - Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems
Solar PV Roof Mounting Structure	
IS 2062/IS 4759/AA6063 T6	Material for the structure mounting
Surge Arrestors	
BFC 17-102:2011/ NFC 102:2011/ IEC 62305	Lightening Protection Standard
IEC 60364-5-53/ IS 15086-5 (SPD) IEC 61643- 11:2011	Electrical installations of buildings - Part 5-53: Selection and erection of electrical equipment - Isolation, switching and control Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods
Cables	
IEC 60227/IS 694, IEC 60502/IS 1554 (Part 1 & 2)/ IEC 69947 (as applicable)	General test and measuring method for PVC (Polyvinyl chloride) insulated cables (for working voltages up to and including 1100 V, and UV resistant for outdoor installation)
BS EN 50618	Electric cables for photovoltaic systems (BT(DE/NOT)258), mainly for DC Cables

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Earthing /Lightning	
IEC 62561/IEC 60634 Series (Chemical earthing) (as applicable)	IEC 62561-1: Lightning protection system components (LPSC) - Part: Requirements for connection components IEC 62561-2: Lightning protection system components (LPSC) – Part 2: Requirements for conductors and earth electrodes IEC 62561-7: Lightning protection system components (LPSC) - Part 7: Requirements for earthing enhancing compounds
Junction Boxes	
IEC 60529	Junction boxes and solar panel terminal boxes shall be of the thermo-plastic type with IP 65 or better protection for outdoor use, and IP 54 or better protection for indoor use

Superintending Engineer

GETCO, Circle Office, Junagadh.

Guarantee and CMC: -**(a) Guarantee**

The Grid connected Solar Photovoltaic System for the project supplied, installed and commissioned shall be guaranteed by the empanelled agency for a minimum period of 5- years from the date of successfully commissioning of the last system, in regard to quality of design, material, workmanship, quality of process/ manufacturing, performance, efficiency, installation, etc.

In the event any defect is found or developed in the system within guarantee period, shall be rectified/replaced by the Empanelled Agency at his own expense promptly.

In case the defects are not rectified within 2 (Two) days of the receipt of the complaint by the Empanelled Agency, GETCO shall have full liberty to rectify such defect or undertake such repairs as may be necessary to restore the system in working condition at the risk and cost of the Empanelled Agency.

The expenditure so incurred by GETCO shall be deducted from EOI applicant's pending claims, security, etc. and if necessary may be recovered in other mode provided under the law. In the event of failure of the complete system, if necessary, the whole system shall be replaced by the Empanelled Agency promptly.

(b) CMC: - Comprehensive Maintenance Contract for 5 years:- (Resolving Complaints related to defects/ non-working / poor performance of the system)

This EOI Document cover Five-year Comprehensive Maintenance Contract under the scope of EOI applicant.

The Five-year comprehensive Maintenance Contract shall include comprehensive on-site guarantee and warranty for all materials and components of the system under the project as mentioned above in para no (a).

During this CMC period the Empanelled Agency has to repair/replace the defective part/s or the material/s or any or all Components of the System to make it in working condition without loss of performance or degradation in efficiency and without compromising safety aspects free of cost within 48 (Fort eight) Hours of time limit as soon as the complaint is received from the GETCO. Also the Empanelled Agency has to undertake regular/periodical preventive maintenance of the system to avoid any future fault in the system and to improve the solar yield.

During the CMC period, the inverter monitoring, monitoring and controlling, shall be done by EOI applicant. Hence necessary reports shall be submitted by the EOI applicant in the soft/hard copies periodically to the concern authority of the GETCO as and when asked.

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a) Logging of complain:

The record of each and every complaint received and resolve with down time and up time shall have to be maintained by the Empanelled Agency in register as well as computer based software and shall have to be submitted to GETCO office In each quarter.

- b) While doing repairing or rectification work, the Empanelled Agency's technician or any person is not authorized to work on GETCO's electric line of 11 KV and LT having potential danger of electricity. In case the defects are not rectified within 2 (Two) days from the receipt of the complaint by empaneled agencies than penalty of Rs 200 per day is applicable till the complaint is resolved.

In case of rectification required due to natural disaster i.e. earthquake, Storm, Heavy rain, flood etc, Agency should be completed rectification work within one month after receiving complaint. If after one month plant is not in service with his full capacity, the loss of energy shall be compensated by the agency to GETCO considering previous month generation and prevailing DISCOM tariff during the year.

This penalty shall be payable to GETCO, in case of empaneled agency failed to pay the same, it will be recovered from the PBG or may be recovered in other mode provided under the law. In the event of failure of the complete system, if necessary, the whole system shall be replaced by empaneled agencies within 15 days failing which 0.5% per day plus Taxes (if any) and cess on the particular project value subject to maximum of 10% of the project value plus applicable taxes (if any) and cess to be recovered from the PBG.

(C) Generation Guarantee:

The Capacity utilization factor CUF of the solar power plant shall not be less than 17% on annual basis, during the five CMC period. The Capacity Utilization factor (CUF) shall be maintained at 17% with respect to the AC Capacity of PV system and necessary efforts shall be made to achieve it by the bidder without any claim i.e. weather/climate change or other support not available. In case the system fails to attain the required CUF annually, the system shall be deemed to underperforming. The calculation of the CUF shall be on the generation recorded by the **Solar system AC energy meter**. The shortfall of energy to achieve 17% CUF on the yearly basis shall be compensated by the bidder to GETCO at the rate equivalent to the prevailing DISCOM tariff during the year. Failing which GETCO may invoke the entire performance bank Guarantee.

GUIDELINES FOR AGENCY:

1. It is mandatory for EOI applicant to have valid test report of SPV Modules and grid tie inverters with similar or larger capacity from MNRE approved laboratories.
2. The program implementation guidelines of the MNRE, as declared from time to time, for SPV program shall be applicable and followed at all times.
3. The technical specification, scope of work for which EOI Document is invited are furnished in EOI Document
4. The quantity mentioned in the EOI Document is only indicative and not final. Payment will be done only for the actual quantity executed.
5. Cost of Comprehensive Maintenance during Guarantee and warrantee period and Insurance of system for 5 years is required to be included in the quoted prices.
6. The Empanelled Agency shall be responsible for overall project management, system integration and testing to complete all criteria for successful functioning of the Grid connected Solar PV plant, but not limited to the functions laid down in this document.
7. The above cited requirements are only indicative. The owner reserves the right to requisition any other relevant information and also reserves the right to reject the Bid proposal of any Bidder, if in the Owner's opinion the Qualification data is incomplete and Bidder is not qualified to perform the Contract satisfactorily.
8. **Bidding Costs**

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All costs/expenses in the preparation and submission of the Bid (including any post Bid discussions/presentations) shall be fully borne by the Bidder. Owner will not be responsible/liable for these costs irrespective of the course and conclusion of this Bidding.

- 2.0 The above cited requirements are only indicative. The owner reserves the right to requisition any other relevant information and also reserves the right to reject the Bid proposal of any Bidder, if in the Owner's opinion the Qualification data is incomplete and Bidder is not qualified to perform the Contract satisfactorily.

3.0 Bidding Costs

All costs/expenses in the preparation and submission of the Bid (including any post Bid discussions/presentations) shall be fully borne by the Bidder. Owner will not be responsible/liable for these costs irrespective of the course and conclusion of this Bidding.

B. BID DOCUMENTS**4.0 Details of Documents**

- 4.1 The following Bid documents apart from Invitation to Bid detail the material and equipment specifications/characteristics, the bidding procedures and the terms & conditions of contract:

- a. Instructions to Bidders (ITB-Part I)
- b. General Conditions of Contract (GCC-Part I)
- c. Erection Conditions of Contract (ECC-Part I)
- d. Special Conditions of Contract (SCC-Part I)
- e. Technical Specifications (TSP-Part IIA)
- f. Technical Data Sheets (TDS-Part IIB)
- g. Bid Form and Price Schedules (BF/PS-Part IV)

5.0 Knowing the Bid Documents

- 5.1 Every intending Bidder is to examine and understand all instructions, forms, terms, conditions and specifications in the Bid Documents and fully know himself all the conditions and contents therein, which may in any manner, affect the scope & content of work and the costs thereof. Submission of a Bid not substantially responsive to the Bid Document in all respects and/or failure to furnish all information required by the Bid Document may entail rejection of the Bid at the Bidder's risk.

6.0 Clarifications on Bid Documents

- 6.1 In case an intending Bidder finds any discrepancy or omission in the documents and specifications or is in doubt as to the true meaning of any part, he shall make a request, in writing not later than the date of pre Bid discussion, to the owner in triplicate. The owner will issue explanations, interpretations and clarifications as deemed fit in writing as a response to this request. On receipt of such interpretations/clarifications, the Bidder may submit his Bid within the date and time stipulated in the Bid invitation. All such explanations, interpretations and clarifications from the Owner shall be deemed as part of Bid Documents and shall invariably accompany the Bidder's proposal.

- 6.2 Any verbal/telephonic clarifications and information given by the Owner or his employee (s) or his representative(s) will not in anyway be binding on the Owner.

7.0 Amendment of bidding document:

- 7.1 At any time prior to the deadline for submission of Bids the Owner may, for any reason, whether at his own initiative or in response to a clarification requested by the intending Bidder, modify the Bidding Document with amendment(s).
- 7.2 The amendment will be notified in writing or Fax /web site to all intending Bidders who have received the Bidding Document at the address contained in the letter of request for issue of bidding document from the Bidders. Owner will bear no responsibility or liability arising out of non-receipt of the same in time or otherwise.

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7.3 In order to afford prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Owner may, at his discretion, extend the deadline for the submission of bids.

7.4 Such amendments, clarifications etc. shall be binding on bidders and will be given due consideration by the Bidders while they submit their bids and shall invariably enclose such documents as a part of the bid.

C. PREPARATION OF BIDS**8.0 Language of Bid:**

8.1 The Bid prepared by the Bidder and all correspondence and documents relating to the Bid, exchanged by the Bidder and the Owner, shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in another language so long as accompanied by an English translation of its pertinent passages. Failure to comply with this may disqualify a bid. For purposes of interpretation of the bid, the English translation shall govern.

8.2 Bid Format

Bidders have to make the Bid in the formats furnished with this Document. Verbatim without adding any printed/typewritten text of their own.

9.0 Local Conditions:

9.1 It will be imperative on each Bidder to fully inform himself of all local conditions and factors, which may have any effect on the execution of the Contract covered under these documents and specifications. The Owner shall not entertain any request for clarifications from the bidders, regarding such local conditions.

9.2 It must be understood and agreed that such factors have properly been investigated and considered while submitting the proposals. No claim for financial adjustment to the Contract awarded under these specifications and documents will be entertained by the owner. Neither any change in the time schedule of the Contract nor any financial adjustments arising thereof shall be permitted by the Owner, which are based on the lack of such clear information or its effect on the cost of the works to the Bidder.

10.0 Documents comprising the Bid:

10.1 The Bidder shall complete the Bid form inclusive of Price Schedules; Technical Data Requirements etc. furnished in the Bidding Documents, indicating, for the services to be rendered, a brief description of services, quantity and price.

10.2 The Bidder shall also submit documentary evidence to establish that the Bidder meets the Qualification Requirements as detailed in Clause 2.0 above and Special Conditions of Contract (including Clause 11 of ITB).

10.3 All Tender Documents/ formats are to be returned completed and filled in all respects and signed by the Company Authorized Signatory wherever specified.

10.3 The Bid Guarantee shall be furnished in a separate cover in accordance with clause specific ITB.

11.0 Scope of the proposal

11.1 The Scope of the proposal shall be on the basis of a single Bidder's responsibility, completely covering all the equipment erection and other installation services specified under the accompanying Technical Specifications. It will include among others as specified therein the following: -

- a) Pre-assembly, if any, erection, testing and commissioning of all the equipments.
- b) Reliability tests and performance and guarantee tests on completion of commissioning.

11.2 As specified in the Special Conditions of Contract, no deviation whatsoever to certain conditions of the bidding documents permitted by the Owner and therefore, the Bidders are advised that while making Bid

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Proposals and quoting prices these conditions may appropriately be taken into consideration. Bidders are required to furnish a certificate in this regard as per the format provided in Special Conditions of Contract in a separate sealed envelope containing Bid security, which shall accompany the Technical Bid. Any Bid not accompanied by such certificate shall be rejected by the Owner and shall not be opened.

11.3 Bids not covering the above cited entire scope of works may be treated as incomplete and hence rejected.

11.4 The Bidder shall complete all the schedules & annexure in the Bid Proposal Sheets, Technical Data Sheets and specified elsewhere. The Qualifying Data should be filled in the required schedule of Bid Proposal Sheets.

12.0 Bid Price:

12.1 The Bidder shall indicate percentage above/below of total bid price indicated in the appropriate price schedules, enclosed in bid proposal sheets for erection, and other services it proposes to furnish under the contract. **The % above/below indicated shall be inclusive of Survey, Design, Supply, Installation, Commission and maintenance of Solar PV System for 5 years and inclusive of all taxes and duties applicable on required inputs and services**

12.2 The Bidder shall specifically note that the Tenders are invited on percentage rate increase/decrease based in relation to unit rates of tender price schedule.

12.3 If the Supplier/Contractor has opted for the Composition scheme of GST, the same must be clearly specified with valid Declaration & Certificate from Department. In the event of withdrawal/cessation of the Supplier from Composition scheme during the tenure of the contract, the rate (i.e. price) mentioned in the price bid shall be final and any additional GST will have to be borne by the tenderer himself. In no case additional amount towards GST or otherwise will be paid / reimbursed to supplier/contractor. Further Statutory Variation clause will not be applicable in case of Supplier / Contractor has opted for Composition Scheme under GST.

Also, please mention separate applicable HSN / SAC Code and rate of GST and Cess as applicable for each item of Goods/Service. If not specifically mentioned, then COMPANY will have the option to take the prices as exclusive of taxes and duties at maximum higher slab rates for the evaluation of the tenders.

The offered prices to be indicated in online mode of tender in the format given (i.e. Schedule-B). The price bid submitted in physical mode shall not be considered.

Every bidder shall inform their GSTIN No. of the registered place(s) wherefrom the bidder intends to supply the goods / services, meaning thereby the bidder has to supply the goods / services from the relevant declared / registered place of supply only.

3.0 Price Basis:

13.1 The Price shall be quoted on **firm basis**.

13.2 The Price quoted by the bidder shall remain fixed during the bidder's performance of the contract and shall not be subject to variation on any account saving for change in quantity. A bid submitted with an **adjustable price quotation shall be treated as non-responsive and rejected**.

GENERAL COMMERCIAL CONDITIONS: -

1. The Gujarat Energy Transmission Corporation Ltd., Junagadh hereinafter called 'GETCO' / 'OWNER' intends to receive bids for **"Tender for Survey, Design, Supply, Installation, Commission and maintenance of Solar PV System for 5 years as a rooftop at Control Room terrace of various Substations of Keshod, Kodinar and Junagadh AM division under Circle Office GETCO Junagadh. (Package -3)"** 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. Bidders are requested to pay an earnest money deposit **(As per GETCO purchase policy)** by RTGS/ NEFT/Online only on any Nationalized Bank at Junagadh for the amount as specified in the tender notice. **Payment of EMD in form of Cheque shall not be accepted.**

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Gujarat Energy Transmission Corporation Ltd.
ગુજરાત સરકારનું સાહસ Government of Gujarat Undertaking

CIRCLE OFFICE JUNAGADH

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E-mail: setrjunagadh.getco@gmail.com

- 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 5.0% of the order value on placing the order.** The contractor will have to pay **entire S.D i.e 5.0% by demand draft / BG of any Nationalized/Scheduled Bank as per approved format' within 10 days from the date of the issue of LOI.**

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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

(A) Guarantees issued by following banks will be accepted as SD on permanent basis:

i. All Nationalized Banks.

(B) Guarantees issued by following Banks will be accepted as SD for the period up to 31.03.2027. The validity cut-off date in GR is with respect to date of issue of Bank Guarantee irrespective of date of termination of Bank Guarantee.

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 Sahkari Bank Ltd.
30. Rajkot Nagrik Sahkari Bank Ltd
31. Saraswat Co-Operative Bank Ltd
32. SBPP Co-operative Bank Ltd.
33. SVC Co-Operative Bank Ltd.
34. The Cosmo Co-Op Bank Ltd.
35. The Gujarat State Co-Operative Bank
36. The Surat District Co-Operative 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-operative Bank
42. The Banaskantha Mercantile Co-op. Bank
43. Gujarat Gramin Bank

Bank Guarantee of other than above mentioned banks towards, Performance Bank Guarantee for Supply, Erection & Warranty will not be acceptable.

The security deposit will be refunded only after the receiving NOC for completion of work by In-charge engineer, finalization of final bill and on submission of Performance guarantee for five years.

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Agency has to submit refund application for refund of security deposit after completion of guarantee period or finalization of final bill whichever is later to Circle office and one copy to Sub Division / Division office for issuance of NOC before expiry of BG (Wherever SD is submitted in the form of BG). Security deposit will be refunded after receipt of NOC from concern division offices.

9. **Contract Period:** - The time allowed for overall completion the work is **90 (Ninety) Days** from the date of issue of work order. failing which the penalty ½% plus Taxes (If any) per week or part thereof on delayed portion of work and / or supply value subject to ceiling of 10% of the total contract value will be imposed.

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.

For different site location, you have to provide separate gang for timely completion of work.

10. **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.

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(VI) "GST may be paid along with the RA Bills and you have to submit the CA Certificate and Undertaking signed by authorised 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.

11. WELFARE CESS: -

- 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
- 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.

OR

If you had not employed on any day of the preceding twelve months, ten or more building workers in any building or other construction work as prescribed under the provisions of Building & Other Construction Workers' Welfare Cess Act, 1996. Due to that the provisions of Building & Other Construction Workers' Welfare Cess Act, 1996 is no applicable and labour department is not giving registration under Building & Other Construction Workers' Welfare Cess Act, 1966. So they are insisting for waiver of registration under Building & Other Construction Workers' Welfare Cess Act, 1996. In those cases, you have to furnish the following documents with respect to each order placed and site wise.

- Annexure-1 on the stamp paper of Rs. 100 duly notarized.
 - Annexure-2 duly acknowledged by labour department.
- The above documents (copy enclosed) should be submitted before passing 1st RA bill.
- 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.
 - 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.
 - 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.
 - 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.
 - Welfare cess shall be reimbursed on production of proof of such payments made by the contractor to the appropriate department as per rules. Payment should be made through cheque only and afterward for 10 Days Bank statement should be produce at the time of reimbursement of welfare cess.**
 - If the R.A. Bill happens to be first and final bill, then before release of payment, contractor has to submit documentary evidence of registration under Welfare Cess Act and evidence of payment of welfare cess.**

12. 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.

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13. **Also the successful bidder will have to execute Agreement on stamp paper of value Rs.300/- at our Transmission Circle, GETCO, Junagadh before commencement of works as per GETCO's prescribed Performa. The cost of stamp paper will be borne by the contractor.**
14. 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.
15. 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.
16. **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, GETCO, Junagadh.**
17. 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.
18. GETCO shall deduct the Income-Tax and other taxes as per prevailing rules from each and every bill.
19. **No part rate or reduced rate shall be allowed in final bill.**
20. **No higher rate or revised rate will be applicable for the work, if work is held up/ closed due to whatever so reasons.**
21. **GETCO will not pay any idle charge for any site conditions or any circumstances.**
22. **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**
23. **Billing and Payment Terms:**
All Payment made during the contract shall be on account payments only. The payment will be made on fulfillment of all his liabilities under the contract and production of work completion certificate of the substation in-charge, after following the procedure of GETCO.
 - (a) The contractor shall have to submit the RA bill of order to the concerned Deputy/Junior Engineer of sub-division of concerned division for payment up to 50% amount against supply of material. **Payment will be done by EE(AM) Keshod/Kodinar/Junagadh.**
 - (b) **30% of the order value upon certification of GEDA/third party approved by GEDA and commissioning of the system upon installation of the bidirectional and solar meter and complete the installation process with uploading of all documents on GEDA online portal., or as may be specified**
 1. Bills.
 2. Installation certificate duly signed by beneficiary/GEDA official/third party showing its commissioning date (date of bi-directional meter installation)
 - (c) Balance 20% of order value against the equivalent amount of performance bank guarantee valid for a period of 5 years from the date of commissioning of the system (Date of meter installation).
 - (d) If net payable amount is more than Rs 10.0 Lacs, payment will be released from circle office/corporate office. The payment will be made by RTGS/NIFT only
 - (e) The payment will be released within 60 days. However, in case of any delay due to any eventuality no interest charges shall be paid. The payment will be made by RTGS/NIFT only
 - (f) 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.
 - (g) 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.
The VMS portal also provides 'real time' tracking of invoice status to monitor the process of submissions and receive timely updates

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- (h) The final bill will be submitted to the **Keshod/Kodinar/Junagadh** Division and payment will be done by the **Keshod/Kodinar/Junagadh** (AM) Division.

(i) 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;

24. 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.
25. 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.
26. 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.
27. The erection work should be commenced immediately from the date of receipt of instructions from office and should be completed within thereafter.
28. 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.
29. Tenderer will be qualified only who have submitted all the required documents as mentioned in tender notice.
30. **In case of any dispute/ doubt, the decision of Superintending Engineer, GETCO, Junagadh. shall be unchallengeable, final and binding to the contractor.**
31. The contractor has to remain in close day to day contact with Engineer in charge of work who will issue detailed instruction for the commencement of the work.
32. 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.
33. All other general terms and conditions as prevailing in the GETCO shall be applicable to the contract.
34. **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.**
35. 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.
36. 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.
37. **Tender offer without payment of EMD required certificate, documents, list of tools, tackles, equipments etc. required for execution of job will be out rightly rejected without assigning any reason thereof and decision of Superintending Engineer, GETCO, Junagadh will be final and unchallengeable.**
38. 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

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- 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.
39. 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.
 40. Specification in any items mentioned in tender are subject to change without any prior notice and binding to the contractor.
 41. 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.
 42. 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.
 43. **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.**
 44. No subcontractor, Power of Attorney shall be allowed without prior approval of competent authority.
 45. 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.
 46. No tools, tackles, manpower, crane facilities etc. will be provided by the GETCO.
 47. **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.**
 48. **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, Junagadh** 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.
 49. 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.
 50. 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.
 51. 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.
 52. 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.
 53. 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.

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Gujarat Energy Transmission Corporation Ltd.
ગુજરાત સરકારનું સાહસ Government of Gujarat Undertaking

CIRCLE OFFICE JUNAGADH

Add: 1st Floor, Office Building, 66KV Zanzarda SS Compound, Opp. Nandbava Gaushala, Dhandhusar Road, Zanzarda, Junagadh-362015.

E-mail: setrjunagadh.getco@gmail.com

54. 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.

55. 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.

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

57. 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.

58. 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.

59. EMPLOYMENT OF LABOUR

59.1 The Contractor will be expected to employ on the work only his regular skilled employees with experience of his particular work. No person below the age of eighteen years shall be employed.

59.2 All traveling expenses including provisions of necessary transport to and from Site, lodging, allowances and other payments to the Contractor's employees shall be the sole responsibility of the Contractor.

59.3 In case the Owner becomes liable to pay any wages or dues to Labour or any Government agency under any of the provisions of the Minimum Wages Act, Workmen Compensation Act, Contract Labour Regulation Abolition Act or any other law due to act of omission of the Contractor, the Owner may make such payment and shall recover the same from the Contractor's bills.

60. FACILITIES TO BE PROVIDED BY THE CONTRACTOR**60.1 Tools, tackles and scaffoldings**

The Contractor shall provide all the construction equipment's; tools, tackles and scaffoldings required for pre-assembly, erection, of the Breaker, Bus-bar Gantry etc, covered under the Contract. He shall submit a list of all such materials to the Engineer before the commencement of work at Site. These tools and tackles shall not be removed from the Site without the written permission of the Engineer.

60.2 First-aid

The Contractor shall provide necessary first-aid facilities for all his employees, representatives and workmen working at the Site. Enough number of Contractor's personals shall be trained in administering first-aid.

60.4 Cleanliness

60.4.1 The Contractor shall be responsible for keeping the entire area allotted to him clean and free from rubbish, debris etc. during the period of Contract. The Contractor shall employ enough number of personnel to keep the work area clean. Materials and stores shall be so arranged to permit easy cleaning of the area. In areas where equipment might drip oil and cause damage to the floor surface, a

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suitable protective cover of a flame resistant, oil proof sheet shall be provided to protect the floor from such damage.

61. PRE-COMMISSIONING TRIALS AND INITIAL OPERATIONS

The pre-commissioning trials and initial operations of the equipment erected by the Contractor shall be carried out in presence of contractor and is deemed considered as part of the work completion. If it is anticipated that the above test may prolong for a long time, the Contractor's workmen required for the above test shall always be present at Site during such tests and trials.

62. 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.

63. Definition of Terms :

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

64. Contractor's Default :

72.1 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.**

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.

65. The Gujarat Energy Transmission Corporation Limited does not bind itself to accept the lowest or any tender. The Superintending Engineer, reserves the right to reject any or all tender without signing any reasons whatsoever and decision of the Superintending Engineer, Junagadh will be final and unchallengeable.

66. CONTRACTOR'S MATERIALS BROUGHT TO SITE

66.1 The Contractor shall bring to Site all equipment, components, parts, 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

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permission of the Engineer. The Contractor shall nevertheless be solely liable and responsible for any loss or destruction thereof and damage thereto.

- 66.2 The Owner shall have a lien on such goods for any sum or sums which may at any time be due or owing to him by the Contractor, under, in respect of or by reasons of the Contract. After giving a fifteen (15) days notice in writing of his intention to do so, the Owner shall be at liberty to sell and dispose off any such goods, in such manner as he shall think fit and to apply the proceeds in or towards the satisfaction of such sum or sums due as aforesaid.
- 66.3 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.

67. 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.

68. Workmen's Compensation Insurance

This insurance shall protect the Contractor against all claims applicable under the Workmen's Compensation Act, 1948 (Government of India). This policy shall also cover the Contractor against claims for injury, disability, disease or death of his or his Sub-Contractor's employee, which for any reason are not covered under the Workmen's Compensation Act, 1948. The liabilities shall not be less than:

Workmen's	:	As per statutory
Compensation		Provisions
Employee's	:	As per statutory
Liability		Provisions

68.1 Comprehensive General Liability Insurance

The insurance shall protect the Contractor against all claims arising from injuries, disabilities, disease or death of members of public or damage to property of others, due to any act of omission on the part of the Contractor, his agents, his employees, his representatives and Sub-Contractors or from riots, strikes and civil commotion.

The hazards to be covered will pertain to all the works and areas where the Contractor, his Sub-Contractors, his agents and his employees have to perform work pursuant to the Contract.

The above are only illustrative list of insurance covers normally required and it will be the responsibility of the Contractors to maintain all necessary insurance coverage to the extent both in time and amount to take care of all his liabilities either direct or indirect, in pursuance of the Contract.

69. UNFAVOURABLE WORKING CONDITIONS

The Contractor shall confine all his field operations to those works, which can be performed without subjecting the equipment and materials to adverse effects during inclement weather conditions, like monsoon, storms etc. and during other unfavorable construction conditions. No field activities shall be performed by the Contractor under conditions, which might adversely affect the quality and efficiency thereof, unless special precautions or measures are taken by the Contractor in a proper and satisfactory manner in the performance of such Works and with the concurrence of the Engineer. Such unfavorable

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construction conditions will in no way relieve the Contractor of his responsibility to perform the Works as per the schedule.

70. PROTECTION OF MONUMENTS AND REFERENCE POINTS

The Contractor shall ensure that any finds such as relic, antiquity, coins, fossils, etc. which he may come across during the course of performance of his Works either during excavation or elsewhere, are properly protected and handed over to the Engineer. Similarly, the Contractor shall ensure that the bench marks, reference points, etc, which are marked either with the help of Engineer or by the Engineer shall not be disturbed in any way during the performance of his Works. If any work is to be performed which disturbs such reference the same shall be done only after these are transferred to other suitable locations under the direction of the Engineer. The Contractor shall provide all necessary materials and assistance for such relocation of reference points etc.

71. WORK & SAFETY REGULATIONS

- 71.1 The Contractor shall ensure proper safety of all the workmen, materials, plant and equipment belonging to him 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 the Engineer, as he may deem necessary.
- 71.2 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 in this regard.
- 71.3 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 produced as and when desired by the Engineer or by the person authorized by him.
- 71.4 The Contractor shall provide suitable safety equipment of prescribed standard to all employees and workmen according to the need.
- 71.5 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. For erection, good and standard quality of material only shall be used by the Contractor.
- 71.6 The Contractor shall not interfere or disturb electric fuses, wiring and other electrical equipment belonging to the Owner or other Contractors under any circumstances, whatsoever, unless expressly permitted in writing by to handle such fuses, wiring or electrical equipment
- 71.7 Before the Contractor connects any electrical appliances to any plug or socket belonging to the other Contractor or Owner, he shall:
- Satisfy the Engineer that the appliance is in good working condition;
 - Inform the Engineer of the maximum current rating, voltage and phases of the appliances;
 - Obtain permission of the Engineer detailing the sockets to which the appliances may be connected.
- 71.8 The Engineer will not grant permission to connect until he is satisfied that;
- The appliance is in good condition and is fitted with suitable plug;

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- b. The appliance is fitted with a suitable cable having two earth conductors, one of which shall be an earthed metal sheath surrounding the cores.
- 71.9 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.
- 71.10 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 sufficient quantity of tools will have to be provided by the Contractor to electricians/workmen/officers.
- 71.11 In case any accident occurs during the construction/ erection or other associated activities undertaken by the Contractor thereby causing any minor or major or fatal injury to his employees due to any reason, whatsoever, it shall be the responsibility of the Contractor to promptly inform the same to the Engineer in prescribed form and also to all the authorities envisaged under the applicable laws.
- 71.12 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.
- 71.13 The Contractor shall not be entitled for any damages/compensation for stoppage of work due to safety reasons as provided in Para 31.18 above 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.
- 71.14 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 to himself and his fellow employees.
- c) Employees must not leave naked fires unattended. Smoking shall not be permitted around fire prone areas and adequate fire fighting 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.
- j) Requirements of ventilation in underwater working to licensed and experienced divers, use of gum boots for working in slushy or in inundated conditions are essential requirements to be fulfilled.
- 71.15 The Contractor shall follow and comply with all 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 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/- : These are applicable for death per person |
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b. Major injuries or accident causing Rs. 20,000/- : injury to any person, whosoever.

25% or more permanent disablement per person to Workmen or employees

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 Workmen's Compensation Act and rules framed there under or any other applicable 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.

72. CODE REQUIREMENTS

The erection requirements and procedures to be followed during the installation of the equipment shall be in accordance with the relevant Codes and accepted good engineering practice, the Engineer's drawings and other applicable Indian recognized codes and laws and regulation of the Government of India.

73. Calculation of differential Price & Cost Compensation for Deviations.

The Differential Price to be added to the Bid Price of each bid during evaluation and comparison shall be derived as under:

Differential Price (DP) = $n_1F_1 + n_2F_2 + \dots + n_nF_n$, where $F_1, F_2, \dots, F_n$ are the various factors in Indian Rupees per unit of parameter differential or deficiency in the equipment and services offered as stipulated in these specifications: $n_1, n_2, \dots, n_n$ are the respective parameter differential or deficiency in the corresponding units to be determined from the Bidder's proposal. The above factors and corresponding units of parameter differential are derived from the Technical Specifications, Data sheets and/or Special Conditions of Contract.

Deviations from the Bidding Documents in so far as practicable will be converted to a Rupee value (D) and from the Bidding Document while evaluating the bids. In determining the Rupee value of the deviations the Owner will use parameters consistent with those specified in the specifications and documents and or other information as necessary and available to the Owner.

74. Comparison of Bids

The bids shall be compared on the basis of lump sum prices (i.e., for erection services to be rendered as quoted by the Bidder) for the entire scope of the proposal as defined in the Bidding Document.

For comparison purposes all the evaluated bid prices shall be in Indian Rupees as under:

$$W = Q + DP + D$$

Where

W = Total Comparison Price

Q = Bid Price quoted by the bidder in Indian Rupees (Value Of erection cost including other components if any.)

DP = Different price in Indian Rupees calculated as above

D = Cost compensation for deviations calculated as above.

All evaluated bid prices of all the bidders shall be compared among themselves to determine the lowest evaluated bid and, as a result of this comparison, the lowest bid will be selected for the award of the Contract.

75. DISPUTE RESOLUTION MECHANISM**1. Amicable settlements**

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Any dispute, difference, controversy or claim between the parties arising out of or relating to this contract with reference to the construction, interpretation, breach, termination or validity thereof (hereinafter referred to as "the dispute") shall, upon the written request of either party be referred to the authorized representatives of the disputing parties for resolution. The authorized representatives shall promptly meet and attempt to negotiate in good faith a resolution of the dispute within thirty days of the service of the request.

2. Arbitration

If the parties fail to amicably resolve the disputes or differences or contrary claims as indicated herewith in sub clause (1) of Clause 75 arising under or in connection with the present works contracts, whether pertaining to works contracts alone or works and procurement both, the same shall be referred to arbitration under the Gujarat Public Works Contracts Disputes Arbitration Tribunal Act, 1992.

Superintending Engineer
GETCO, Circle Office, Junagadh.

: SPECIAL COMMERCIAL CONDICATION FOR BIDDER:-**1. TAKING DELIVERY AND INSURANCE:-**

- 1.1 The Contractor has to open site store and ensure for safe custody of all the stored materials at his own cost.
- 1.2 **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, equipments 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.**

2.0 INSURANCE

- 2.1 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.
- 2.2 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.

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- 1.3 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.

1.0 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 Subject work beyond contractual cutoff date stated as per stipulated delivery period shall be subject to the penalty ½% per week or part thereof on delayed portion of work and / or supply value subject to ceiling of 10% of the total contract value will be imposed.

Note: In case 100% erection of solar rooftop completed but delay due to statutory permissions, penalty levied as under

- In case of successful application is submitted for statutory permissions by contractor within time limit then delay is not pertain to Contractor
- In case of unsuccessful application or after time limit application made for statutory permissions by contractor then delay up to the date of successful application pertain to contractor & penalty of ½% per week or part thereof on delayed portion considering delay amount is 50% of order value.
- Here successful application means application not rejected.
- This clarification does not limit the liability of contractor for getting all application from authority within prescribe time limit.

*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 contractor under this contract or any other contract with GUVNL and / or its subsidiary companies.*

4.0 "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

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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 or 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.

5. Termination of Contract

In case of contractor fails to deliver the stocks or any consignment thereof within contractual period of delivery or in case the stores are found not in accordance with prescribed specification and/or the approved sample, the GETCO shall exercise its discretionary power either:

- A. To recover, from the contractor as agreed, by way of penalty clause above, or
- B. To purchase from elsewhere after giving due notice to the contractor on account and at the risk of the contractor for such stores not so delivered or other similar description without canceling the contract in respect of the consignment not yet due for delivery or
- C. To cancel the contract

In the event of the risk purchase of stores of similar description, the opinion of the GETCO shall be final. In the event of action taken under clause above, the contractor shall be liable to pay for any loss which the GETCO may sustain on that account, but the contractor The decision of the GETCO shall be final as regards to the acceptability of stores supplied by the contractor and the GETCO shall not be required to give any reason in writing or otherwise at any time for rejection of the stores shall not be entitled to have any saving on such purchases made against default.

6. TERMINATION OF CONTRACT ON OWNER'S INITIATIVE

6.0 The Owner reserves the right to terminate the Contract either in part or in full due to reasons other than those mentioned under clause entitled 'Contractor's Default'. The Owner shall in such an event give fifteen (15) days notice in writing to the Contractor of his decision to do so.

6.1 The Contractor upon receipt of such notice shall discontinue the work on the date and to the extent specified in the notice, make all reasonable efforts to obtain cancellation of all orders and Contracts to the extent they are related to the work terminated and terms satisfactory to the Owner, stop all further sub-contracting or purchasing activity related to the work terminated, and assist Owner in maintenance, protection, and disposition of the works acquired under the Contract by the Owner.

In the event of such a termination the Contractor shall be paid compensation, equitable and reasonable, dictated by the circumstances prevalent at the time of termination.

6.2 If the Contractor is an individual or a proprietary concern and the individual or the proprietor dies and if the Contractor is a partnership concern and one of the partners dies then unless the Owner is satisfied that the legal representatives of the individual Contractor or of the proprietor of the propriety concern and in the case of partnership, the surviving partners, are capable of carrying out and completing the Contract the Owner shall be entitled to cancel the Contract as to its in completed part without being in any way liable to payment of any compensation to the estate of deceased Contractor and/or to the surviving partners of the Contractor's firm on account of the cancellation of the Contract. The decision of the Owner that the legal representatives of the deceased Contractor or surviving partners of the Contractor's firm cannot carry out and complete the Contract shall be final and binding on the parties. In the event of such cancellation the Owner shall not hold the estate of the deceased Contractor and/or the surviving partners

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Gujarat Energy Transmission Corporation Ltd.
ગુજરાત સરકારનું સાહસ Government of Gujarat Undertaking

CIRCLE OFFICE JUNAGADH

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E-mail: setrjunagadh.getco@gmail.com

of the estate of the deceased Contractor and/or the surviving partners of the Contractor's firm liable to damages for not completing the Contract.

7.0 Relationship with employee: -

Every bidder should, at the time of submission of bid. Give a declaration as under

"If any bidder company/firm, the interest (i.e. Shareholding in Company and share in partnership firm) of any employee of the tendering company or his/her relative as defined in Section 2(77) of the Company's act 2013 is 10% or more, the tendering Company will not deal with such Company/Firm at all."

Tendered therefore, must specifically disclose this fact in his technical bid. Non-disclosure of such facts would immediately disqualify the tenderer for further dealing with the tendering company.

8.0 Conflict of Interest among Bidders/ Agents

A bidder shall not have conflict of interest with other bidders for particular quoted item. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. **The bidder found to have a conflict of interest shall be disqualified.**

A bidder may be considered to have a conflict of interest with one or more parties in this bidding process for particular quoted item, if:

- a) they have proprietor/ partner(s)/ Director(s) in common; or
- b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or
- c) they have the same legal representative/ agent for purposes of this bid; or
- d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder; or
- e) bidder participates in more than one bid in this bidding process. Participation by a bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ assemblies from one bidding manufacturer in more than one bid.
- f) in cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/ dealer. There can be only one bid from the following:
 1. The principal manufacturer directly or through one Indian agent on his behalf; and
 2. Indian/ foreign agent on behalf of only one principal.
- g) a Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid;
- h) in case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/ management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business.
- i) Bidder shall not act in contravention/ violation to the provisions of competition act, as amended from time to time.

Every bidder should, at the time of submission of bid, give a declaration, that bidder shall not have conflict of interest with other bidders, as above.

9.0 Use of Call before you dig (CBUD) App

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All the excavators/excavating agencies engaged by "GETCO (Gujarat Energy Transmission Corporation Limited) must self-register "Call Before you Dig (CBUD) " app as excavator.

All digging agencies/Contractors must be mandated to do any type of digging/excavation only after prior intimation through CBUD Mobile app.

Responsibility for correctness of the information submitted in the bid lies with bidder. If any information furnished in the bid is proved to be false at a later date, GETCO reserve right to reject the bid and the bid will not only be rejected but the bidder will be BLACKLISTED as per GUVNL Policy

Note: Contractor has to bring the Cement, Reinforcement Steel, Structural Steel etc. from Approved Brand List Published on GETCO's website Only.

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. Cutting, bending, welding, brazing, wherever necessary is to be done by the contractor.
4. 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.
5. 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.
6. 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.
7. **Electricity Rules:** -All the works shall be carried out in accordance with latest rules under Electricity Act.
8. **Testing:** - Complete installation shall be put to the necessary test as required and shall be got approved by Government Electrical Inspector.
9. **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.
10. **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.
11. **Contractor shall purchase all brought out items as per Schedule-B with taking prior approval from Executive Engineer (AM), GETCO, Keshod/Kodinar/Junagadh. Any item without approval shall not be permitted and GETCO shall not be responsible for accept such items.**

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12. 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.

13. CONTRACTOR'S FIELD OPERATION

3. 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.
4. 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.

14. 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.

15. 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.

16. 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.

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 _____ 2026. 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 the _____

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Rs. _____ value _____ of
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

_____ issued 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.

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- e. 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.
- f. 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

- g. 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 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.

CONTRACT AGREEMENT

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

This Agreement is made at Junagadh the _____ day of _____ in the Christian Year Two thousand Twenty Five 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

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have been signed by Shri _____ on behalf of the contractors and by **SE GETCO JUNAGADH** 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 GETCO do 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.

3. DISPUTE RESOLUTION MECHANISM

1. Amicable settlements

Any dispute, difference, controversy or claim between the parties arising out of or relating to this contract with reference to the construction, interpretation, breach, termination or validity thereof (hereinafter referred to as "the dispute") shall, upon the written request of either party be referred to the authorized representatives of the disputing parties for resolution. The authorized representatives shall promptly meet and attempt to negotiate in good faith a resolution of the dispute within thirty days of the service of the request.

2. Arbitration

If the parties fail to amicably resolve the disputes or differences or contrary claims as indicated herewith in sub clause (1) of Clause 3 arising under or in connection with the present works contracts, whether pertaining to works contracts alone or works and procurement both, the same shall be referred to arbitration under the Gujarat Public Works Contracts Disputes Arbitration Tribunal Act, 1992.

SCHEDULE

List of documents forming part of the contract :

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1. GETCO's Tender Specification No. _____ and contractor's offer opened on dated ____/____/2026.
2. GETCO order No. _____ Dtd. ____ / ____ / 2026
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 hereto 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, Race Course, BARODA - 390 007.

In the presence of name , Full addressed and

Signature :

(1) _____

(2) _____

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
As per Commercial Terms and Condition of Tender]

To,

**GETCO****ગુજરાત એનર્જી ટ્રાન્સમિશન કોર્પોરેશન લિ.
Gujarat Energy Transmission Corporation Ltd.**

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The Superintending Engineer (AM)
Gujarat Energy Transmission Corporation Ltd,
Circle office,
Junagadh.BG. No. _____
Issue Date _____
Expiry Date _____
Amount _____

We, _____ (Name of the Bank and Address of the person 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 **GETCO** 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 be 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 under this Bank Guarantee are made to us 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 nosSignature of the
Bank's Authorized Signatory
With Official Round Seal

**Note: The banks shall be the Banks recognized/notified by the Finance Department,
Government of Gujarat(GOG) from time to time.**

PARTY TO TAKE NOTE PLEASE BEFORE SUBMITTING THEIR BANK GUARANTEES

1. A/T no. and date to be written on every page, of Bank Guarantee & its Extension.
2. If B/G amount is more than Rs.50, 000/-, kindly take sign of two bank officer with their respective Employee code no.
3. Valid Confirmation letter of the concerned Bank in an approved format should be attached with every Bank Guarantee & its Extension.
4. Stamp paper should be valid & recent one and date of issuing of stamp paper should not be beyond six months, in any case.
5. Round seal and signature of two Bank officers should be affixed on every B/G paper.

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Gujarat Energy Transmission Corporation Ltd.
ગુજરાત સરકારનું સાહસ Government of Gujarat Undertaking

CIRCLE OFFICE JUNAGADH

Add: 1st Floor, Office Building, 66KV Zanzarda SS Compound, Opp. Nandbava Gaushala, Dhandhusar Road, Zanzarda, Junagadh-362015.

E-mail: setrjunagadh.getco@gmail.com

PERFORMA, SHOWING THE DETAILS OF SITE VISIT DONE BY AGENCY BEFORE QUOTING THE TENDER.

[Tenderers shall submit in the Format detailed here under]

Sr. No.	Name of firm	Name of Authorized representative of firm who has visited the site.	Qualification	Designation / post holding in company.	Remarks.
(a)	(b)	(c)	(d)	(e)	(f)

(Format for Guarantee Card)**FORMAT FOR GUARANTEE CARD TO BE SUPPLIED WITH EACH GRID CONNECTED SOLAR PV SYSTEM**

1	Name & Address of the Empanelled Agency	
2	Name & Address of DISCOM	
3	Name & Address of BENEFICIARY CONSUMER NO	
3	Date of Commissioning of the system	
4	Details of PV Module (s) supplied in the System Make (Name of the EOI applicant): Model Serial No(s) Wattage of the PV Module (s) under STC Guarantee valid up to	
5	Details of PCU/Electronics & other BOS items: System Make (Name of the EOI applicant) Model Serial No(s) Guarantee valid up to	
6	Designation & Address of the person to be Contacted for claiming Guarantee obligations	
7	Local Service Centre Address: Mobile no e-mail id :-	

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The grid tied solar system is warranted for its performance for a period of five years and the Empanelled Agency/Supplier (undersigned) undertakes to replace the components which do not perform as per specifications, due to manufacturing defect, at no cost to the beneficiary as per EOI Conditions.

(Signature)

(SEAL)

Name & Designation,

Name & Address of the Agency

Date:

Place

(During the guarantee period **GETCO** reserves the right to cross check the performance of the systems with the minimum performance levels specified in the EOI Document specifications).

QUARTERLY MAINTENANCE & SERVICING REPORT

1. DETAILS OF SOLAR PHOTOVOLTAIC SYSTEM INSTALLED

1. Supplied by :
2. Date of installation :
3. Servicing period: From to

2. USER PROFILE

1. Name and address of User:

3. TECHNICAL DETAILS

1. Module Capacity, make and serial numbers:
2. Inverter Capacity, make and serial no.

4. CHECK OF THE PRODUCT

1. Correct inclination and orientation of SPV panel :
2. Cleaning of dust from SPV panel :
3. Interconnection of modules, charge controller etc.:
4. Fuse of charge controller:
5. Working of inverter

5. DIFFICULTIES IN OPERATION/ PROBLEM FACED BY USER:

6. DIAGNOSIS DETAILS/ REPAIR ACTION:

7. DATE ON WHICH SYSTEM WAS LAST ATTENDED:

8. IT IS MANDATORY TO SUBMIT INSTALLATION WISE QUARTERLY ENERGY GENERATION DATA TO RESPECTIVE GETCO OFFICE.

9. AS PER SCOPE OF WORK PANEL CLEANING WORK DONE 02 TIMES IN THE MONTHS CARRIED OUT YES / NO ?

10. REMARKS:

User Name & Signature

Technician's Name & Signature

Date:

(with rubber stamp)

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Project completion Report for individual Grid connected Solar PV plant

Preform-A (by the installer)

Sr. No.	Component	Observation
1	Sanction No & Date	
2	Category: Nodal Agency / Channel partner	
2.1	In case of Nodal Agency, Name and Complete Address of installer:	
3	Site / Location Longitude/ Latitude Type (Bore well / open well etc.)	
4	Solar PV Array Capacity:	
4.1	Make of Modules Whether imported or indigenous?	
4.2	IEC certificate : Agency Date of issue Validity (Enclose a copy of IEC certificate)	
4.3	Whether RFID tag is pasted or not? If so, tag is inside or outside. If not, the reason? Type of RFID	
5	Support Structures/	
5.1	Indigenous or imported	
5.2	Tracking System/ Fix (No tracking) Manual	
5.3	Seasonal Tilt Angle adjustment provided or not?	
6	Grid-Tie inverter details	
6.1	Motor Pump set Capacity (h. p.) (Beneficiary's)	
7	Electronics / controls	
7.1	MPPT provided or not? If yes, provide details	

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7.2	Details of Inverter	
8	Monitoring Mechanism for the installed System	
8.1	Technical Person Trained to maintain the system Name of the person with Mobile no.	
9	Date of Commissioning (Enclose test certificate of System as per MNRE requirement)	

Declaration

It is to certify that all the components / sub systems and materials including junction boxes, cables, distribution boards, switches, circuit breakers used in the system are as per GETCO requirement.

Sign With seal

Date:

Place:

Preform -B (By the customer i.e. GETCO)

**GETCO**

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It is to certify that all information given above is true and correct to best of my knowledge

Sr.	Component	Observation
1	Name of Office With consumer Name , Consumer No, Contracted Load	
2	Location with GPS Lat &Long	
	Capacity(kWp)	
3	Whether training was provided by installer for operation and maintenance	
4	Whether the following documents were provided or not	
	I-V curves of all modules	
	Inverter manual	
	Guarantee card for system	
5	Date of handing over of the system	
6	Cost breakup	Total project cost:

(User signature and stamp)

Date:

Place:

Performa -C Inspection report (by The Engineer In Charge)

Sr. No.	Component	Observation
1	Site / Location with Complete Address	
2	Capacity of system Installed (kWp)	

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3	Whether the system was installed in shadow free area or not? If not mention the details	
	Any inter module shading exists or not	
	Whether the modules contains information about company name, serial no and year manufacturing inside	
	RIFD pasted inside or outside	
4	Electronics / controls	
	Whether the information given in part A is same or found any deviation	
6	Structures:- tracking / fix	
7	Cables Make and size	
8	User Feed Back	
9	Any Specific problem	

1. Signature of inspecting Officer and date

List of enclosures:

1. Copy of invoice billed to user
2. List of serial no. of modules installed in the system
3. Test certificates of the components
4. Statement of expenditure
5. Original Color photographs

Signature of the EO applicant

Seal of the Firm

Format for LOI Letter of Acceptance

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

Ref. No.

Date :

To,
Superintending Engineer
Gujarat Energy Transmission Corporation Ltd
Circle Office, **Junagadh**

**GETCO**

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E-mail: setrjunagadh.getco@gmail.com

Junagadh – 362015

Sub: Letter 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 **Tender for Survey, Design, Supply, Installation, Commission and maintenance of Solar PV System for 5 years as a rooftop at Control Room terrace of various Substations of Keshod, Kodinar and Junagadh AM division under Circle Office GETCO Junagadh. (Package -3).** 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)

A/T ACCEPTANCE LETTER:
(TO BE SUBMITTED ON FIRM'S LETTER HEAD)

Ref. No.
Date:
To,
The Superintending Engineer
Gujarat Energy Transmission Corporation Ltd,
Power House Compound,
Station Plot
Junagadh – 362015
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 _____

Application for refund of EMD
(This Performa should be submitted by party
along with Tech. Bid)

To,
The Superintending Engineer
Transmission Circle,
GETCO, Junagadh

Date:

Sub: - Application for refund of EMD

**GETCO**

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E-mail: setrjunagadh.getco@gmail.com

Respected Sir,

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

Sr. No.	Description	Detail to be submitted by party.
1	Tender No.	
2	Tender ID	
3	Name of Work/Subject	Tender for Survey, Design, Supply, Installation, Commission and maintenance of Solar PV System for 5 years as a rooftop at Control Room terrace of various Substations of Keshod, Kodinar and Junagadh AM division under Circle Office GETCO Junagadh. (Package -3)
4	EMD Amount	80000.00
5	EMD DD No., Date of EMD & Name of Bank	
6	Name of Bidder	
7	Contact No.	
8	E-mail address	

Thanking you,
Faithfully yours,

(Name & Seal of Bidder)

(This Performa should be submitted by party
along with Tech. Bid for RTGS)

Ignore if already submitted to concern office

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

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	

**GETCO**

ગુજરાત ઊર્જા ટ્રાન્સમિશન કોર્પોરેશન લિ.
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E-mail: setrjunagadh.getco@gebmail.com

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



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Price Bid

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Schedule-B

Subject: Tender for Survey, Design, Supply, Installation, Commission and maintenance of Solar PV System for 5 years as a rooftop at Control Room terrace of various Substations of Keshod, Kodinar and Junagadh AM division under Circle Office GETCO Junagadh. (Package -3)

Sr No.	Description of Materials	Capacity in KW	Unit	Rate	Total
	Survey, Design, Supply, Installation, Commission and maintenance of Solar PV System for 5 years as a rooftop at Control Room/Office Building terrace of following substation/Offices				
1.	66kV Chuda S/s	13.00	Per KW.	43795.90	569346.70
2.	66kV Motibaug S/s	13.00	Per KW.	43795.90	569346.70
3.	66kV Bhesan S/s	17.00	Per KW.	43795.90	744530.30
4.	66kV Bilkha S/s	12.00	Per KW.	43795.90	525550.80
5.	66kV Choki S/s	13.00	Per KW.	43795.90	569346.70
6.	66kV Vadia S/s	11.00	Per KW.	43795.90	481754.90
7.	66kV GIDC Junagadh S/s	21.00	Per KW.	43795.90	919713.90
8.	66kV Mangrol S/s	14.00	Per KW.	43795.90	613142.60
9.	66kV Veraval S/s	19.00	Per KW.	43795.90	832122.10
10.	66kV P. Patan S/s	18.00	Per KW.	43795.90	788326.20
11.	66kV Chorvad S/s	15.00	Per KW.	43795.90	656938.50
12.	66kV Dudhala S/s	10.00	Per KW.	46896.90	468969.00
13.	66kV Devli S/s	10.00	Per KW.	46896.90	468969.00
14.	66kV Moradiya S/s	10.00	Per KW.	46896.90	468969.00
15.	66kV Bhetali S/s	13.00	Per KW.	43795.90	569346.70
16.	66kV Alampur S/s	10.00	Per KW.	46896.90	468969.00
Sub Total					9715342.10
Rates with All taxes					Inclusive
Total Amount					9715342.10
In Words : Rupees Ninety Seven Lacs Fifteen Thousand Three hundred Forty Two Rs. and Ten Paise Only.					

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.

Superintending Engineer
GETCO, Circle Office, Junagadh.

CERTIFICATE

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

Stamp & Signature of contractor