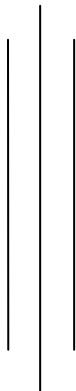


**BID DOCUMENT**

**For**

**Supply and Installation of 12,000 Nos. of Solar Street Lighting  
Systems and 250 Nos. of Solar High Tower Masts in Manipur**

**NIB No. MANIREDA/SHM & SSL/SASCI/2025-26/20**



**Under**

**Special Assistance to States for Capital Investment (SASCI) Scheme  
of the Ministry of Finance, Government of India**

**Submitted by:**

**The Manipur Renewable Energy Development Agency (MANIREDA)  
2<sup>nd</sup> Floor, South Block, Secured Office Complex, A.T. Line, Near Imphal Hotel,  
Imphal – 795001**

e-mail : [manireda99@yahoo.com](mailto:manireda99@yahoo.com)  
Website : [www.manireda.mn.gov.in](http://www.manireda.mn.gov.in)

(This tender document is having 38 pages including this page)

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Office of the  
MANIPUR RENEWABLE ENERGY DEVELOPMENT AGENCY (MANIREDA)  
(An Autonomous Govt. Institute under the Power Department)  
2<sup>nd</sup> Floor, South Block, Secured Office Complex, Near 2<sup>nd</sup> M.R. Gate, Imphal-Dimapur Road, Imphal-795001

**NOTICE INVITING BID**

NIB No.: MANIREDA/SHM & SSL/SASCI/2025-26/20 dated: 21/01/2026

Tenders are invited from reputed firms for 'Design, manufacture, supply, erection, testing and commissioning of

- i) 12,000 Nos. of Solar Street Lighting Systems at different districts of Manipur.
- ii) 250 Nos. of High Solar Tower Mast at different District Hospitals, CHCs and different Administrative Offices in Manipur.

including 5(five) years Maintenance and Performance Warrantee Contract (MPWC)'.

Last date & time for submission of Tender	Date & time for opening of Tender
11/02/2026 upto 12.00 Noon	11/02/2026 at 1.00 p.m.

Tender Document can be downloaded from the websites; [www.manipurtenders.gov.in](http://www.manipurtenders.gov.in) or [www.manireda.mn.gov.in](http://www.manireda.mn.gov.in). Prospective bidders are requested to remain updated for any amendments/modifications/cancellation, etc. in the bid document conditions/terms from time to time. No separate notifications will be given for such amendments/modifications in the print media (press) or intimated to the bidders separately.

N.B.: MANIREDA reserves the right to modify/ cancel the Tender without assigning any reason there of or without bearing any liability, whatsoever, consequent upon such decision.

Sd/-

(Dr. Shailesh Kumar Chourasia)  
Director/ Member Secretary, MANIREDA

**2. Tender Abstract**

<b>Sl. No.</b>	<b>Description</b>	<b>Particulars</b>
1.	Notice Inviting Bid (NIB) No.	MANIREDA/SHM & SSL/SASCI/2025-26/20 dated 21/01/2026
2.	Scope of work	'Design, manufacture, supply, erection, testing and commissioning of i) 12,000 Nos. of Solar Street Lighting Systems at different districts of Manipur. ii) 250 Nos. of High Solar Tower Mast at different District Hospitals, CHCs and different Administrative Offices in Manipur including 5(five) years Maintenance and Performance Warrantee Contract (MPWC)'.
3.	Place of issue & submission of bid documents and address for communication	Manipur Renewable Energy Development Agency (MANIREDA), 2 <sup>nd</sup> Floor, South Block, Secured Office Complex, Near 2 <sup>nd</sup> M.R. Gate, Imphal-Dimapur Road, Imphal – 795 001 Website : <a href="http://www.manireda.com">www.manireda.com</a> , E-mail : <a href="mailto:manireda99@yahoo.com">manireda99@yahoo.com</a>
4.	Last date & time of submission of bids	Date : 11 <sup>th</sup> Feb., 2026 Time : Till 12:00 noon
5.	Date & time of opening of Part - I (Technical Bid)	Date : 11 <sup>th</sup> Feb., 2026 Time : 1.00 p.m. Venue : Office of the Director, MANIREDA, 2 <sup>nd</sup> Floor, South Block, Secured Office Complex, Near 2 <sup>nd</sup> M.R. Gate, Imphal-Dimapur Road, Imphal.
6.	Date & time of opening of Part- II (Financial Bid)	Technically qualified bidders will be communicated the date & time of opening of Part-II (Price Bids) by MANIREDA.
7.	Cost of bid document (Non-refundable)	Bidders shall submit the Tender Cost of ₹10,000/- through online Transaction/NEFT/RTGS to the account of MANIREDA. Bank details provided in the Bid Document. The proof of payment (UTR Number / payment receipt) must be uploaded along with the Technical Bid.
8.	Earnest Money (Refundable)	Bidders shall submit the EMD amount of ₹83,00,000/- through Online Transaction/NEFT/ RTGS to the account of MANIREDA, and submit self-attested scanned copy mentioning transaction ID alongwith the technical bid.

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

9.	Time of completion	Within 12(Twelve) months from the date of issue of work order.
10.	Validity of offer	The offer shall remain valid up to 365 days from the due date of submission of offer.

**Note: The Tender Document Cost and the EMD can be paid through online mode in the following account and receipt / UTR Number shall be uploaded with the Technical Bid Document**

Account Holder's Name	Manipur Renewable Energy Development Agency(MANIREDA)
Name of Bank	Bank of India (BOI)
Account Number	504210110009560
IFSC Code	BKID0005042
Branch details	Paona Bazar, Opp. Friends Talkies, Imphal

## **CHAPTER - I**

### **Detailed Notice Inviting Bid (DNIB) :**

#### **1. Bid Document :**

- 1.1 This bid document comprises of total 38 pages including Proformas. In addition, any other documents/ instructions/amendments/revisions issued by MANIREDA to the bidder till the due date of opening of the bids shall also be deemed to be integral part of the bid document. Failure to furnish all the information as per the bid document in every respect will be at the bidder's risk.
- 1.2 The Technical Bids and Financial Bids will be opened on the date and time mentioned in the tender website in the Office of the Director, MANIREDA, 2<sup>nd</sup> Floor, South Block, Secured Office Complex, AT Line, Near Hotel Imphal, Imphal in presence of bidders or their authorized representatives. The representative should produce authorization letter to attend the bid opening meeting in the Proforma – 2.

#### **2. Cost of Bid Document :**

- 2.1 Bidders can download the bid document from the website of MANIREDA [www.manireda.mn.gov.in](http://www.manireda.mn.gov.in) or from Government portal [www.manipurtenders.gov.in](http://www.manipurtenders.gov.in) and submit online the cost of the bid document of Rs. 10,000/-, as applicable along with Technical Bid.
- 2.2 Bid submission without the cost of bid document will be rejected.

#### **3. Earnest Money :**

- 3.1 EMD for an amount of Rs. 83,00,000/- shall be submitted through online transaction/NEFT/ RTGS to the account of MANIREDA, and submit self-attested scanned copy mentioning transaction ID alongwith the technical bid.
- 3.2 Bidders failing to submit earnest money will be rejected.
- 3.3 The request for adjustment of earlier dues in place of earnest money will not be entertained.
- 3.4 The earnest money shall be returned to all unsuccessful bidders, within fifteen days from the date of placement of LOI/LOA to the successful bidder(s).
- 3.5 The earnest money shall be forfeited if –
  - a. Any bidder withdraws his bid or deviates from his offer during the validity period.
  - b. The successful bidder fails to furnish his acceptance of the Order within 15(fifteen) days of placement of LOI/LOA by MANIREDA.
  - c. The bidder fails to successfully complete the work within the stipulated time frame.

#### **4. Security Deposit / Performance Guarantee :**

- 4.1 The successful Bidder, who execute the agreement with MANIREDA for the work tendered, shall have to deposit a security amount equivalent to 3% of total work order value excluding MPWC against work order placed on them. The security deposit may be forfeited in case of non-execution of work against the work order placed.
- 4.2 Security Deposit may be deposited in the form of Demand Draft favoring Director, MANIREDA / Performance Bank Guarantee OR Earnest Money would be adjusted to 3% security deposit or refunded the

excess amount if the EMD happens to be more.

4.3 After one year of satisfactory installation and commissioning of the work, the security deposit shall be released.

**5. Submission of Bids :**

- 5.1 Bidders are advised to submit their bids **online only** strictly based on the specifications, terms and conditions contained in the bid document and subsequent revisions/amendments, if any.
- 5.2 No Hard copy shall be submitted.
- 5.3 All the Proformas must be on the bidder's official letterhead. Any change in wording of the Proforma will lead to rejection of the bid application.
- 5.4 The Bid Document without proper paging/ flags of Annexures /details will not be accepted.
- 5.5 Offers submitted without attestation will be rejected.

**6. Mode of Submission of Bids :**

Bidders have to submit the Technical Bid online as stated below:

6.1 The bidder shall submit the following in Technical Bid;

- (i) Scanned copy of Tender Fee & EMD.
- (ii) Forwarding Letter- Proforma -1
- (iii) Authorization letter for attending Bid Opening Meeting - Proforma-2
- (iv) Information about the Bidding Firm- Proforma-3
- (v) Self-attested copies of Letters of Award (LoAs) / Contract Agreements along with corresponding Work Completion Certificates issued by the client, for works executed during the preceding five (5) years, for the following:
  - a) Supply, Installation and Commissioning of at least 10,000 (Ten Thousand) numbers of Solar Street Lights; and
  - b) Supply, Installation and Commissioning of at least 100 (One Hundred) numbers of Solar High Mast Lighting Systems.
- (vi) Test Report of components of Solar Street Lighting system viz.
  - a) Luminaries
  - b) LiFePO4 battery
  - c) Solar panel

Bidder should have Test Reports for complete systems from TUV / NABL / MNRE authorised testing centres not older than Jan 2025.
- (vii) Test Report of components of High Solar Tower Mast system viz.
  - a) Luminaries
  - b) LiFePO4 battery
  - c) Solar panel

Bidder should have Test Reports for complete systems from TUV / NABL / MNRE authorised testing centres not older than Jan 2025.
- (viii) A summarized sheet of turnover for last 5 yrs certified by registered Chartered Accountant.
- (ix) Letter of authorized dealer/service provider in Manipur (If any, or will be appointed by the successful bidder).
- (x) ISO 9001 certificate.
- (xi) ISO 14001 certificate.
- (xii) GST Registration Certificate of Company/Firm.

6.2 A person signing the bid document or any document forming part of the bid document shall be deemed to warrant that he has authority to bind such offer/ document and if on enquiry it appears that the person signing had no authority to do so, MANIREDA may, without prejudice to other civil and criminal remedies, cancel the bid/contract and hold the signatory liable for all costs and damages.

## **CHAPTER – II**

### **SCOPE OF WORK :**

#### **7. Scope of Work :**

The scope of work is to 'Design, manufacture, supply, erection, testing and commissioning of;

- (i) 12,000 Nos. of Solar Street Lighting systems and
- (ii) Installation of 250 Nos. of High Solar Tower Mast at different District Hospitals, CHCs and different Administrative Offices in Manipur"

including 5(five) years Maintenance and Performance Warrantee Contract (MPWC)

7.1 Details of sites will be intimated at the time of placement of the Work Order / before commencement of work.

7.2 MANIREDA reserves the right to amend the scope of work, accept or reject any or all the offers/bids, in part or in full or cancel/withdraw the invitation for bids without assigning any reasons whatsoever and in such case, the bidder/intending bidder shall have no claim arising out of such action. The Bidder shall carefully check the specifications and shall satisfy himself regarding the technical requirement and completeness of the equipment/system. MANIREDA shall examine whether the bid is complete in all respects and conform to the stipulated requirement of the technical specifications and tests reports. The bid having material deviation shall be rejected as being non-responsive. If any amendment in specification is made by MNRE during implementation of this project, the same shall be followed by MANIREDA.

7.3 The bidders should beforehand thoroughly familiarized with the site to be installed, incidental expenditures/charges on transportation, installation and maintenance expenses etc. They should also access the local conditions including prevailing law and order problems before submitting their offer. Any claim on change/increase in the rate/cost of the work due to any reason will not be entertained at any circumstances.

7.4 MANIREDA, if required, may at its discretion obtain clarifications on offers by requesting clarifications from any or all the bidders at any time prior to Financial Bid opening. Such request for clarification and the response shall be in writing.

7.5 It is not necessary to select the lowest quoted rate. MANIREDA reserves the right to decide the reasonable price/rate for successful implementation of the project.

7.6 The Financial Bid of only those bidders, whose Technical Bids are found qualified after evaluation, will be opened and evaluated. In case of deviation in the date and time of opening of the Financial Bid from what is given in the Bid Detail, the date & time for opening of the Financial Bid will be uploaded on MANIREDA website. Bidders are requested to visit the website ([www.manireda.mn.gov.in](http://www.manireda.mn.gov.in)) regularly and keep themselves informed.

7.7 The bidders shall be ranked **L1, L2, L3 etc.** The work order will be issued subject to the acceptance of the bidders to supply at approved rate. MANIREDA reserves the right to award more than one firm for execution.

#### **8. Price :**

8.1 The Bidder shall quote price as per Proforma – 8. Price quoted shall be firm & binding and shall not be subject to any variation whatsoever, on any account except for statutory variation on taxes & duties during contractual completion period.

8.2 The price should be inclusive of all taxes, duties, levies, incidental charges etc. as on date.

## **CHAPTER – III**

### **ELIGIBILITY CRITERIA :**

#### **9. Eligibility and Qualification Criteria :**

9.1 A Registered Company/ Firm/ Corporation/ Joint Venture (JV) legally registered in India. Valid registration documents must be submitted.

If the bidder is a Joint Venture (JV), the following requirements must be fulfilled:

##### **1. Technical Eligibility (Work Experience Requirements)**

1.1 Due to the distinct nature of the scope—Solar Street Lighting Systems (SSL) and Solar High Tower Masts (SHTM)—the JV may nominate separate Lead Partners/Members for each system.

##### **1.2 The following conditions shall apply:**

###### **SSL Technical Lead:**

One designated JV partner shall individually meet 100% of the Work Experience Requirements specified in the tender for Solar Street Lighting Systems (SSL).

###### **SHTM Technical Lead:**

A second designated JV partner—either the same entity as the SSL Technical Lead or another partner—shall individually meet 100% of the Work Experience Requirements specified for Solar High Tower Masts (SHTM).

##### 1.3 The JV Agreement shall clearly and unambiguously specify:

- The partner responsible for meeting the Work Experience Requirement for SSL.
- The partner responsible for meeting the Work Experience Requirement for SHTM.

##### **2. Financial Eligibility**

The JV members shall collectively meet 100% of the Financial Eligibility Criteria specified in the tender.

##### **3. Roles, Liability, and Authority**

All JV members shall be jointly and severally liable for the entire execution of the Contract. The Lead Partner, as nominated in the JV Agreement, shall have full authority to act on behalf of the JV in all tender-related and contract-related matters.

##### **4. Evaluation by MANIREDA**

MANIREDA reserves the right to evaluate the capacity and capability of the JV, including :

- Verification of documents, Facility inspections, Assessment of technical, financial, and resource capabilities.
- This evaluation shall be conducted to ensure the JV can successfully execute the full scope of work.

##### **5. Restriction**

Consortium of firms is not permitted. Only JVs of maximum 3 partner firms meeting the above criteria shall be eligible to bid.

Cumulative Experience of the Bidders should be of executing contracts of Solar Street Lighting systems and High Solar Tower Mast (installed & commissioned). The Bidders should have installed and commissioned at least 10,000 Nos. For Solar Street Lighting systems and 100 Nos. for High Solar Tower Mast whose work order issued in the name of the bidder.

**9.2 Minimum Turnover :**

- Minimum Average Annual Turnover (MAAT) of the Bidder for best three years out of last five financial years of the bidder should not be less than 30% of the estimated amount of the package.
- This must be the individual company's standalone turnover.
- A summarized sheet of turnover, certified by a practicing Chartered Accountant/Statutory Auditor along with corresponding annual accounts, must be enclosed.
- The Net Worth for the last financial year should be positive. ("Net Worth" shall be calculated as per the Companies Act, 2013).

**9.3 The Bidder should have registered office/authorized dealer/service network in Manipur. Details of the authorized dealer viz. name, address, contact no. both mobile and landline, e-mail ID etc. should be enclosed.**

- Bidders who do not have service network in Manipur should be willing to appoint within 15 days from the date of Work Order and the details should be submitted. A self declaration on the same should be submitted with the Bid document.
- Trained manpower, proper infrastructures with adequate spares should be maintained in the office for smooth execution of MPWC.

**9.4 The Bidder should have valid GST registration certificate. A copy of which should be enclosed.**

**Other Terms and Conditions:**

1. The bidder shall submit OEM Authorization Certificates for the following components along with the Technical Bid.
  - Luminaries
  - LiFePO<sub>4</sub> Batteries
  - PV Panels

If the bidder itself is the Original Equipment Manufacturer (OEM) for any of the above components, a self-declaration confirming that the bidder is the manufacturer of the respective item(s) shall be submitted in place of the OEM Authorization Certificate.

2. Bidder need to submit ISO 9001:2015, ISO 14001:2015, ISO 45001:2018,CE Certificate
3. Test Report of components of Solar Street Lighting system and Solar High Tower Masts viz.
  - i) Luminaries
  - ii) LiFePO<sub>4</sub> battery
  - iii) Solar panel

Bidder should have Test Reports for complete systems from TUV / NABL / MNRE authorised testing centres not older than Jan 2025.

4. Bidders shall submit valid BIS Certification for the following :

- i) LiFePO<sub>4</sub> batteries used in solar street lights or high masts in India, conforming to IS 16270:2023 and IS 16046 (Part 2):2018.
- ii) LED luminaires conforming to IS 10322 (Part 5/Sec 3):2012 (or the latest applicable version).
- iii) PV modules conforming to the IS 14286 Series: 2023 for performance and durability, harmonized with IEC 61215 and IEC 61730 Series (Part 1 & 2).

Manufacturers of PV modules must be listed in the MNRE approved List of Models and Manufacturers (ALMM) to be eligible for government projects and sales in India. Use of Domestic Content Requirement (DCR) compliant modules is mandatory. The serial numbers of all solar panels shall be uploaded on the NISE Solar DCR Portal for verification

- 5. Bidders must submit a declaration confirming that all supplied PV modules shall be DCR-compliant.
- 6. LM 79 & LM 80 reports need to be submitted along with the technical bid.
- 7. Bidder/OEM must be assessed by any authorized Third Party Agency.

## **CHAPTER - IV**

### **PAYMENT TERMS :**

#### **10. Terms of Payment :**

10.1 70% of the total work order value (excluding installation, commissioning and MPWC cost) shall be released against delivery of goods in full and in good condition subject to availability of fund and after submission of :-

- (i) Certificate of supply of complete systems of solar power plant received by the consignee as specified.
- (ii) Commercial invoice of the supply made in triplicate.
- (iii) Copy of delivery challan/transportation challan/lorry receipt.
- (iv) Material Inspection Clearance Certificate (MICC).

\*\*\* A portion of the amount shall be released to the successful firm as Advance Mobilization for procurement of the systems, subject to availability of fund.

10.2 25% of the contract price (excluding MPWC charges) and 100% of installation, commissioning charges shall be paid against duly verified completion report with successful installation and commissioning including erection and testing of the systems after submission of the following documents:

- (i) Certificate of installation, commissioning and testing of solar power plant.
- (ii) Verification of Certificate of Commissioning and testing from the consumer/beneficiary countersigned by officer concerned.
- (iii) Photographs of the systems installed.
- (iv) All payments shall be released by MANIREDA through e-payment through RTGS/account transfer for which the following mandatory information is to be furnished from the consumer;

Name of the Firm to whom payment is to be made	Name of bank	Bank Branch address	Account Number	Type of account	MICR Code	IFSC code	PAN No.

10.3 5% of the amount (excluding MPWC) will be released to the party after completion of 1 year warranty period subject to completion of installation of all systems and submission of PCR with requisite documents.

#### **10.4 Performance Guarantee :**

- (i) The contractor has to deposit @5% of the project cost (excluding MPWC cost) as Performance Guarantee in terms of irrevocable Bank Guarantee for the tenure of the contract including MPWC period. For the successful bidders, the EMD submitted may also be adjusted as part of the Performance Guarantee, but the firm has to submit the balance in the form of BG to make requisite 5% Performance Guarantee. If the Solar system fails to confirm to the laid down systems specifications or any deviation/compromise has been observed in the system specifications etc., the performance guarantee deposit of the firm shall be forfeited.
- (ii) MPWC charges shall be released on 5 equal yearly installments on satisfactory performance. The record of performance sheet/metering system duly attested by the Beneficiaries shall be submitted to MANIREDA on quarterly basis, by 15th of the next month.

## **CHAPTER - V**

### **11. General Terms and Conditions :**

- 11.1 No Claim or Compensation for Submission of Tender.
- 11.2 The bidder whose bid is not accepted shall not be entitled to claim any costs, charges, expenses and incidental incurred by him through or in connection with his submission of bid, even though MANIREDA may decide to withdraw the notice inviting bid.

### **12. Validity of Offer :**

- 12.1 Unless otherwise specified, the bidder shall keep his tender valid initially for a period of 365 days from the due date of submission of the offer.

### **13. Award of Contract/Work Order :**

- 13.1 The contract/work order shall be awarded to the bidder whose Financial Bid was acceptable and who is selected by the competent authority of the Tender Committee to undertake the work at the approved rate.

### **14. Effective Date of Contract :**

- 14.1 The effective date of commencement of execution of the order by the selected contractor shall be the date of issue of the Purchase/Work Order whichever is earlier.

### **15. Contract Price :**

- 15.1 The total contract price should include a detailed break up of cost for supply of each materials such as panels, control electronics, controllers, batteries, mechanical components, etc. including 5 years MPWC in Proforma – 8. The price shall be for the total scope as defined in this document.
- 15.2 The income tax shall be deducted as applicable at the existing rate.
- 15.3 During the period of the contract, MANIREDA may order addition/deletion in quantities/capacities which the bidder shall comply. The adjustment in Contract Price shall be made at the same unit rate as per **Price Schedule (Proforma – 8)**.

### **16. Statutory Variations in Taxes and Duties:**

- 16.1 The adjustment in the Contract Price towards imposition of new taxes or abrogation of existing taxes due to statutory variation shall be applicable only if the new tax is enacted or existing tax is abrogated within contractual delivery/execution period. For any upward variation due to enactment of new tax or abrogation of existing tax after contractual delivery/execution period, adjustment in the Contract Price shall not apply, although for any downward variation, MANIREDA shall make necessary adjustment in the rate of the items.
- 16.2 The Supplier shall bear and pay all liabilities in respect of statutory variations in taxes and duties and imposition of new taxes and duties that may be imposed after the contractual delivery/execution dates, as originally stipulated, in case the delivery dates are extended due to reasons attributable to Supplier.

**17. Agreement:**

17.1 The Supplier/Contractor(s) have to enter into an agreement within two weeks, in the office of the Director/ Member Secretary, MANIREDA in prescribed format before commencement of supply/services.

**18. Dispatch Instructions:**

18.1 All items/equipments may be subjected to pre-dispatch inspection by authorized representative(s) as per relative standards/provisions approved by MANIREDA before dispatch of items. Cost of inspection by officials (not more than two) would be borne by the successful bidder.

**19. Transit Insurance:**

**19.1** Transit Insurance shall be arranged by the Supplier for his total supplies. In case of any damage/loss/pilferage/non-delivery during transit, the Supplier shall lodge the claim and settle the claim with the insurance agency. The Supplier shall also arrange replacement of the damaged, lost/pilfered items expeditiously pending settlement of commercial implications with insurance agency, if any, so as not to hamper the working of the system. The resultant loss if any due to failure of Supplier to comply with the above shall be to the account of the Supplier.

**20. After Sales Service and Availability of Spare Parts:**

20.1 The Supplier shall depute authorized Service Engineer within 3 days from the date of the intimation of fault, and establish sufficient inventory of spares, well trained technicians in the State in consultation with MANIREDA to provide satisfactory and uninterrupted services during the guarantee/ MPWC period for which a servicing centre must be established at Imphal. Details of the Servicing centre such as Name, Address, Contact number, Agreement of Service Centres with local representative, if any, etc. of the Firm must be submitted to MANIREDA before commencement of the work.

**21. Completion Schedule:**

21.1 The Project for installation of 12,000 Nos of Solar Street Lighting systems and 250 Nos. of Solar High Tower Mast shall be completed in full as per the terms and conditions of the contract within **12 (Twelve) months** from the date of issue of the Work Order.

**22. Guarantee/Warranty Period:**

22.1 The Firm must provide guarantee which include servicing & replacement guarantee for the components.  
22.2 Supplier/contractor shall without prejudice to any other clauses of the order, repair the defective parts and restore the system to satisfactory working/performance within 7(seven) days of intimation of fault without any additional cost to MANIREDA within the period of guarantee/ MPWC.

**23. Assignment/Sub Letting/Pre Bidding Tie Up :**

23.1 The Supplier/contractor shall not assign or sub let, manufacture, shop testing, packing & forwarding, transportation, transit insurance and supply, in whole or part, its obligations to any third party to perform under the order/contract.  
23.2 In the event the Supplier contravenes this condition, MANIREDA reserves the right to reject the equipment/work sub-contracted and procure the same

from elsewhere at Supplier's risk and cost. The Supplier shall be solely liable for any loss or damage which MANIREDA may sustain in consequence or arising out of such replacing of the contract work.

23.3 In case, the installation & commissioning and MPWC is planned to be carried out in collaboration with other party, the bidder has to sign MoU with the party on a Non-judicial stamp paper of value not less than Rs. 100/- and submit a copy of the MoU along with the bid. The MoU shall clearly indicate division of scope of work between the prime bidder and his sub-vendor and terms of payment. However, the total responsibility of work will remain with the prime bidder.

**24. Liquidated Damages for Delay in Completion:**

- 24.1 The completion period for the assignment must carefully be worked out and all resource & work planning is to be done accordingly with flexibility for adjustments.
- 24.2 If the Supplier fails in the due performance of the contract to deliver and commission any part of the equipment or complete the work within the scheduled date for any reason other than due to Force Majeure conditions or any extension thereof granted to him by MANIREDA, he shall be liable to pay to MANIREDA as pre-agreed liquidated damages but not by way of penalty on account of delayed successful commissioning, a sum equal to 0.1% of total contract value per week of such delay, or part thereof, subject to maximum of 5% of the Total Contract Value.
- 24.3 The liquidated damages for delayed completion shall be recovered from the Supplier's Bill / Bank Guarantee deposited as Performance Guarantee.
- 24.4 Deductions/payment of liquidated damages shall in no way relieve the Supplier from his contractual responsibility to complete the works.

**25. Cancellation of Order:**

- 25.1 MANIREDA will be at liberty to terminate in part or full the awarded contract without prejudicing its rights and affecting the obligations of the Contractor by giving seven (7) days notice in writing in the following events:
  - (a) If the Supplier is found defaulter for delayed supply or failure to deliver satisfactory performance or supply of substandard materials pursuant to NIB conditions.
  - (b) If the Supplier/Vendor fails to comply with the provision(s) of the contract including the responsibilities to fulfill the 5 years maintenance and performance warrantee contract as per the provisions mentioned in this bid document.
  - (c) If the Supplier/Vendor is involved in any action of moral turpitude.

**26. Arbitration:**

- 26.1 All disputes or differences, whatsoever, arising between the parties out of or in relation to the construction, meaning and operation or effect of this contract or breach thereof shall be settled amicably.
- 26.2 If, however, the parties are not able to resolve them amicably, the same shall be settled by arbitration in accordance with the Rules of Arbitration of the Indian Council of Arbitration and Conciliation & Arbitration Act 1996 and the award in pursuance thereof shall be binding on the parties.
- 26.3 The venue of arbitration proceeding shall be within Jurisdiction of Court of Law at Imphal only.
- 26.4 Work under this contract shall be continued by the Supplier during the arbitration proceedings, unless otherwise directed in writing by MANIREDA or unless matter is such that the work cannot possibly be continued until the

decision of the Arbitrator is obtained.

**27. Force Majeure:**

- 27.1 Should at any time during the continuance of the contract the performance in whole or in part of any obligations by either party under this contract be held up by reasons of any war, hostility, civil commotion, sabotage, fires, floods, earthquakes, explosions, epidemics, cyclones, quarantine restrictions, Governmental regulations, law & order and other proclamation etc. (hereinafter referred to as "Events") then, provided notice of the happening of any such eventuality is given by either party to the other within 15 days from the date of occurrence thereof neither party shall, by reasons of such eventuality, be entitled to terminate this contract, nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance, and the work under this contract shall be resumed as soon as practicable after such eventuality has come to an end or ceased to exist.
- 27.2 Should one or both the parties be prevented from fulfilling their contractual obligations by a state of force majeure, lasting continuously for a period of at least four (4) weeks, the two parties should consult each other regarding the further implementation of the contract.
- 27.3 The above-mentioned force majeure conditions/clause shall also apply in the works of sub-contractors/suppliers of the contractor.
- 27.4 However, the Supplier shall not be liable for liquidated damages or termination/ cancellation of order/contract if and to the extent that its delay in performance or other failure to perform its obligations under the contract is the result of an event of force majeure.

**CHAPTER – VI:**

**TECHNICAL SPECIFICATIONS SOLAR LED STREET LIGHTING SEMI INTEGRATED SYSTEMS**

**LED Light: 20 Watt**

The illumination should be uniform without dark bands or abrupt variations, and soothing to the eye. Higher light output will be preferred. The light output from the white LED light source should be almost constant. The LED light fitting shall have a rating of 20 Watt.

**Make: OSRAM / PHILIPS / ielecssol / or any other**

**reputed Make. Other Parameters :**

- LED lumen efficiency should be  $\geq 180 \text{ lm/W}$  & total luminous flux of 3600.
- Solar charge controller MPPT driver efficiency should be  $> 95\%$ .
- MPPT efficiency tracking as per IEC 50530, should not be less than 93%.
- Power LED with lenses having Bat wing pattern.
- Solar charge controller MPPT, Solar LiFePO4 battery and luminaire housing can be of same / different make but must be of single integrated unit.
- Brand name must be engraved/embossed/laser printed on the luminaire.
- All lights should have inbuilt Anti-theft alarm.
- Complete fixture should be Aluminium Die-Cast with lenses.

Pole: GI pole of height – 6 mtr

Pole thickness: Minimum 2.2 - 2.5 mm & Outer dia: 2.5 Inch.

Pole should be of GI with 2 coat of yellow primer and 2 coat zinc paint or aluminimium paint Base plate thickness of light pole: base plate should be minimum 12mm thickness with stiffener attached 3 sides.

The arch pole for light should match the inner dia of light and should be welded or should have proper GI clamp with GI nut and bolts. Party will provide base plate with nut and bolt.

The pole should be hot dip galvanized pipe as per IS 1161 & IS 4736. GI galvanization thickness should be 86 micron or more and test report in this regard to be submitted.

**DUTY CYCLE**

The LED solar street lighting system should be designed to operate for dusk to dawn Battery configuration: Lithium Ferro phosphate Battery (LiFePO4), 42Ah, 12.8V

Battery should conform to the latest BIS/International standards (IEC 62133) Capacity of the battery shall not be less than 12.8V (nominal), 42Ah at STC.

Battery backup-2 days or more.

BMS (Battery Management System) should be part of battery pack and battery pack enclosure should be as per standard. The battery pack should be integrated with the system in such way that it is theft proof and not removable from system. It should be installed with combination of module structure/ luminaries. The system must withstand wind velocity of 150 km/hr. The battery pack should be capable of high rate of heat dissipation. The battery box should be acid proof and corrosion resistant, hot dip galvanized metallic box (IP65) with anti- theft locking arrangement.

The battery should operate between temperature range of 0 degree C to 55 degree C.

**PV module: Solar Module: 100Wp (Minimum)**

Only indigenous modules of IEC Tested shall only be used.

Mono PERC with efficiency of 19% or higher should be used in the solar photovoltaic module, preferably of make:- Vikram / Waaree /Adani /Sova /Icon Solar/ Saatvik/ Premier/ Renewsys or any other reputed make. The make of PV modules shall be from approved ALMM list of MNRE.

The terminal box on the module shall be designed for long life outdoor operation in harsh environment and should have a provision for opening for replacing the cable, if required.

Automatically on/off: The light should have feature of an automatically on/off function i.e. senses daylight and automatically turns on at dusk and off at dawn.

Solar charge controller: Should have Solar Charge Controller to regulate charging and discharging of the battery.

IP rating: Should have an IP rating of IP65 or higher to ensure good protection against dust and water ingress.

**Dimming Profile :** The illumination should be 100% for first 4 Hours, 75% for next 3 Hours, 50% for next 3 Hours and 100% for rest of the time. The system must also feature an Intelligent Auto-Dimming Management function to ensure operational autonomy during extended periods of low power generation.

**ELECTRIC CABLE**

The electric cable used shall be twin core PVC insulated water and UV resistance copper cable of minimum size 1.5 mm. Cable shall meet IS 1554/ 694Part1:1988 & shall be of 650V/ 1.1 kV

**Electronics, including protections:**

- The system should have protection against battery overcharge and deep discharge conditions.
- Fuse should be provided to protect against short circuit conditions.
- Adequate protection to be provided against battery reverses polarity.
- Adequate protection is to be incorporated under no load conditions.
- Necessary lengths of wires / cables and appropriate fuses should be provided.

Charge Controller: MPPT Charge controller should be used to maximize energy drawn from the solar PV array. The MPPT Charger should be micro-controller based.

**Remote Monitoring Systems :**

Remote monitoring devices should be included in all the systems integrated for proper monitoring of the solar street lighting systems. RMS should have the facility to enter the complete data during installation through mobile App & monitor health of complete solar street light through the App and Dashboard as well.

**Quality and Warranty:**

Both light and panel should be tested from MNRE / NABL approved lab/test house. Party has to offer minimum 5 year warranty on following items of solar lighting system :

- i) Solar Luminary
- ii) Charge Controller
- iii) LiFePO4 Battery
- iv) PV Module (25 Years as per MNRE norms)
- v) RMS Devices.

**SOLAR HIGH TOWER MAST SYSTEMS**

**TECHNICAL DETAILED SPECIFICATIONS FOR 9 MTR SOLAR HIGH MAST SYSTEMS**

<b>SI. No.</b>	<b>Particulars</b>	<b>Capacity/ Model</b>
1	SPV Modules	200Wp Mono Perc SPV Under STC x 6 nos
2	Minimum Battery	LiFePo4 Batteries – 80AH at 12.8V (with minimum individual cell capacity 20AH at 3.2V) x 06 nos in a suitable weather resistant enclosures and sophisticated designed battery management system (appropriate over charging, overheating deep discharge protection)
3	Light Source	<p>White Light Emitting Diode 30W x 06 nos. in solar flood light. Total system Wattage (Luminary Wattage) of each luminary should be maximum 30W DC operated confirming to IP66 or above.</p> <p>The LED efficacy should be minimum 165 lm/W (as per LM 80) CCT 5500 - 6500 K, CRI Minimum 70 &amp; LED wattage minimum 01W.</p> <p>The Luminous flux should be minimum 4950 lumens &amp; Luminary Must be LM-79 certified from MNRE/NABL Lab. The colour temperature of White LED used in the system should be in the range of 5500K-6500K. LEDs should not emit ultraviolet light. (strictly as per IS 16101, IS 16102, IS 16103 and IS 16107)</p>
4	Dimming Profile	The illumination should be 100% for first 5 Hours, 50% for next 3 Hours and 30% for rest of the time. The system must also feature an Intelligent Auto- Dimming Management function to ensure operational autonomy during extended periods of low power generation.
5	Central Gateway Monitoring System (CGMS)	Each solar high mast requires a CGMS for remote data monitoring on the dashboard.
<b>Pole, Accessories and Foundation</b>		
Pole		<p>9 M Long, 20 sided polygonal Raising lowering mast shaft in Single section Suitable for basic wind speed 50 m/sec complete with head frame, Luminaries carriage suitable to install 6 nos. Luminaries, Solar Panels &amp; battery on the top of the mast .There should be provision to install the type tested Winch inside the mast for raising &amp; lowering of complete solar lighting system. The mast must be hot dip galvanized 20 sided polygonal structure having Bottom A/F Dia 410 mm, top A/ F Dia 150 mm of 3 mm thick. The mast should have a designed life of 25 years.</p> <p>Or</p> <p>9 meter long, 20 sided polygonal raising lowering mast in two sections, which should be telescopically joined together with a minimum overlap of 500 mm. The dimensions of two sections</p>

	should be as follows: (a)- Lower section_ bottom dia 420 mmA/F & top dia.286 mm A/F (b)- Top section _ bottom dia. 304 mm A/F & top dia 200 mm A/F.
- Diameter of base plate (MM)	580 mm
- Thickness of base plate (MM)	20 mm
Lighting Protection Finial	G I Single Spike of length 1200 mm
WINCH / POWER TOOL	Mechanical device/arrangement to be provided to withstand the complete load of the luminary, PV Modules, Battery during raising lowering of the lighting system for Panel cleaning in every week fort night.
- Number of foundation bolts - PCD of foundation bolts (MM) - Type - Diameter - Length of foundation bolts	6 nos. 500 mm TS 600 24 mm dia. Min. 750 mm long
Warranty	The complete solar mast i.e Flood lights, Battery & solar PV module should be warranted for a period of 5 years from the date of installation.
Foundation	RCC Foundation at least 1.95 M deep (single column of 900 mm x 900 mm x 2500 mm) Suitable for mounting of Pole on a pedestal of 0.6 M height (above GL)
Decorative Pedestal	900 mm x 900 mm x 1000 mm
Earthing	Waterless and maintenance free earth electrodes, MS 16 mm copper bonded conductor embedded in electrically conductive concrete of size: Length 1.2 Mtr (63 mm dia) (Earthing electrode with Marconite), 05 years warranty from the date of installation.

**CHAPTER-VII:**

**FIVE YEARS MAINTENANCE & PERFORMANCE WARRANTY CONTRACT (MPWC)**

**1.0 The Maintenance and Performance Warranty Contract (MPWC) :**

- a. After the works are awarded to the successful Bidder/Bidders, the firm shall enter into a Maintenance & Performance Warranty Contract (MPWC) with MANIREDA which includes the scope of operation and maintenance of the SPV Power Plant for a period of 5(five) years. The date of MPWC period shall begin from the date of actual commissioning of the Solar Street Lighting systems and High Solar tower mast. The Maintenance & Performance Warranty Contract shall include servicing & replacement guarantee for parts and components (such as electronics, Batteries etc.) of Solar Power Plant for 5 years from the date of installation. For PV modules, the replacement guarantee is for 25 years.
- b. The Contractor should keep a trained person permanently (present round the clock) for day today operation, troubleshooting, maintenance etc. at the SERVICE CENTRE for attending any fault as and when occurred.
- c. The maintenance service provided shall ensure proper functioning of the systems. All preventive/routine maintenance and breakdown/corrective maintenance required for ensuring maximum uptime shall have to be provided by the Contractor. MANIREDA will provide the format of Maintenance sheet for submitting the Performance Report quarterly. The Contractor shall furnish a Performance Report duly attested by the Beneficiary alongwith the hard copy/printout of the daily performance data of the Plant for every quarter (3 months) shall be submitted to MANIREDA quarterly within 15<sup>th</sup> day of following month during the MPWC period. The MPWC shall have two distinct components as described below.

**2.0 Preventive/Routine Maintenance :**

- 2.1 This shall include activities such as, cleaning and checking the health of the solar systems, cleaning of module surface, tightening of all electrical connections, changing of tilt angle of module mounting structure, and any other activity that may be required for proper functioning of the systems.

**3.0 Breakdown/Corrective Maintenance :**

- 3.1 Whenever a complaint is lodged by the consumer, the bidder shall attend to the same within a reasonable period of time 3 days and in any case the breakdown shall be corrected within a period not exceeding 7 days from the date of complaint.
- 3.2 The bidder shall maintain the following facilities at the local Service Centre for ensuring highest level of services to the end user;
  - (i) Adequately trained manpower, specifically trained by the bidder for carrying out the service activities.
  - (ii) Adequate provisions for record keeping, which shall inter-alia, include the following:
    - (a) Details of system supplied within the command area of the service station including full name and address of consumer, system and sub-system serial numbers and records of routine maintenance carried out (duly signed by the consumer). These records shall include voltage, current, specific gravity, indicator charge, inverter operation, electronics, etc.
    - (b) History record sheets of maintenance done.
  - (iii) Adequate spares and manpower for ensuring least down time of an individual system.
  - (iv) The Service Center shall send summary service reports to MANIREDA on quarterly basis. These reports shall include the following information:
    - (a) Number/Type of components of the Plant covered by the Service Center.

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

- (b) Number/Type of components/systems working satisfactorily on the reporting date.
- (c) Number of complaints received during the period of reporting.
- (d) Number of complaints attended during the period of reporting.
- (e) Major cause of failure, as observed
- (f) Major replacement made during the reporting period. Separate report shall be submitted for each type of systems manufacture wise in case the service center caters to the requirement of more than one manufacture
- (g) Hard copy/printout of the daily performance data of the Plant for the last quarter.

3.3 The records maintained at the Service Center shall be available from time to time to MANIREDA.

3.4 The date of MPWC maintenance period shall begin on the date of actual commissioning of the SPV systems. If during the MPWC period, the Solar Power Plant becomes non-functional due to any defect or shortage of spares etc. for a period more than 1 week then the time duration of this non-functional period will be extended in the MPWC period.

3.5 Any payment for release of MPWC charges will not be entertained or put up to Higher Authority of MANIREDA without the Performance Report duly attested by the authority of Beneficiary.

3.6 Bidder shall furnish details of infrastructure that are presently available for establishing of Service Centers.

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

**Proforma – 1**

**Forwarding Letter**

NIB No.: MANIREDA/SHM & SSL/SACI/2025-26/20

Dated : .....

To,

The Director  
Manipur Renewable Energy Development Agency (MANIREDA),  
2<sup>nd</sup> Floor, South Block, Secured Office Complex, Near 2<sup>nd</sup> M.R. Gate,  
Imphal-Dimapur Road, Imphal- 795001

**Sub : Offer In Response to Notice Inviting Bid No. MANIREDA/SHM &  
SSL/SACI/2025-26/20 for**

“Design, manufacture, supply, erection, testing and commissioning of  
i) 12,000 Nos. of Solar Street Lighting Systems at different districts of Manipur.  
ii) 250 Nos. of High Solar Tower Mast at different District Hospitals, CHCs  
and different Administrative Offices in Manipur including 5(five) years  
Maintenance and Performance Warranteer Contract (MPWC)”

Sir,

With reference to the above we are submitting this offer after having fully read and understood the nature of the work and having carefully noted all the specifications, terms & conditions laid down in the bid document. This offer is hereby submitted as indicated below :

Part – I (Technical Proposal): Submitted online.

Part -II (Financial Component) : Submitted online in E-Tender.

We also confirm that:

1. We are an Indian company/firm.
2. We have never been debarred from executing similar type of work by any Central/ State/ Public Sector Undertaking/Department/Nodal Agency.
3. The Bid Document is downloaded from MANIREDA website and necessary document in support is enclosed.
4. We shall execute the offer/work order as per specifications, terms & conditions of the Bid Documents on award of work.
5. Our offer shall remain valid for placement of purchase orders up to 365 days from the due date of submission of offer.
6. If at any time, any of the declarations submitted by us is found to be false, our offer or order is liable to rejection.

Yours faithfully,

(Signature of Authorized Signatory)

Name :

Designation :

Firm Seal :

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

**Proforma – 2**

**Authority Letter for Attending Bid Opening Meeting & Signing Bid Document**

NIB No.: MANIREDA/SHM & SSL/SASCI/2025-26/20

Date: .....

To,

The Director  
Manipur Renewable Energy Development Agency (MANIREDA),  
2<sup>nd</sup> Floor, South Block, Secured Office Complex, AT Line, Near Hotel Imphal, Imphal-795001.

**Sub: Authority Letter for Attending Bid Opening Meeting & Signing Bid Document.**

Sir,

I hereby authorized ..... (Name & Designation) to attend the **Bid Opening Meeting & sign the Bid Document** (*tick wherever applicable or tick both, if same person is to attend*) to be held on ..... at MANIREDA on behalf of our company.

He is also authorized to provide clarifications/confirmations, if any, and such clarifications/confirmations shall be binding on the company. The specimen signature of is attested below.

(Specimen Signature)

Name : .....  
Designation : .....

(Signature of Authorized Signatory)

Name : .....  
Designation : .....  
Company Seal :

Yours faithfully,

(Signature of Authorized Signatory)

Name : .....  
Designation:

Note:

1. To be submitted by bidders on official letter head of the company.

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

**Proforma – 3**

**Information about the Bidding Firm**

<b>Sl. No.</b>	<b>Particulars</b>		
1	Name of the Bidder		
2	Address of Bidder with Telephone, Fax, email		
3	Address of the Registered Office		
4	Address of the works		
5	GPS Co-ordinate of Registered Office		
6	GPS Co-ordinate of Factory Campus		
7	Name & Designation of Authorized Signatory for Correspondence		
8	Nature of Firm (Proprietorship/Partnership /Pvt. Ltd./Public Ltd. Co./Public Sector)		
9	Permanent Account Number (PAN)		
10	Firm's Registration Number		
11	EPF Registration No. (if applicable)		
12	GST Registration Number		
13	Specify the Item Originally Manufactured		
14	Year of Starting of Manufacturing/ Assembling of PV Component(s)		
15	Installed Capacity for Solar Products/ Components/Plant		
16	Name of Material and Model Type Offered		
17	Name of Manufacturer of SLS / SHTM with Full Address		
	1	Modules / Luminaries /Charge Controller	
	2	Battery / cables / poles and other	

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
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	accessories	
18	Particulars of Earnest Money	
19	Quantity Quoted for Solar Street Lighting Systems / Solar High Tower Masts	
20	Name of the Test Center where the testing of Components SLS / SHTM has been performed	
21	Test Report No. of components of SLS / SHTM mentioning date of test	
22	Specify MNRE specification as in the test report	
23	Store / Warehouse where Materials will be Available for inspection and installation Inspection	
24	Whether the Bidder has submitted details with regard to supplies made to important organizations.	
25	Details of any existing service network in Manipur (Name & address of service centre)	
26	Other details and remarks, if any	

Yours faithfully,

(Signature of Authorized Signatory)

Name :  
Designation:  
Company seal:

(Separate sheet may be used for giving detailed information duly signed. This bid proforma must be submitted  
duly signed in case separate sheet is submitted).

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

**Proforma – 4**

**Details of Orders Received and Executed in Past Years**

NIB No.: MANIREDA/SHM & SSL/SASCI/2025-26/20

Date:.....

Details of Orders Received & Executed by the Manufacturer / Supplier for Supply of Solar Street Lighting systems and High Solar Tower Mast during past 5 Years.

Sl. No.	Name of Agency/ Organization	Purchase Order No., Date & Ordered Qty.	Delivery Schedule	Qty. Supplied Within Delivery Schedule	Qty. Supplied After Delivery Schedule	Date of Full Supply

Yours faithfully,

(Signature of Authorized Signatory with  
Name Designation & Company Seal)

Note:

- (a) Attach Photocopies of Purchase Orders.
- (b) Attach Photocopies of Certificate of Satisfactory Performance Issued by Concerned Agency/Organization.
- (c) Separate sheet may be used for giving detailed information duly signed. This bid proforma must be submitted duly signed in case separate sheet is submitted.

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

**Proforma – 5**

**No Deviation Certificate**

NIB No.: MANIREDA/SHM & SSL/SASCI/2025-26/20

Date :

To,

The Director,  
Manipur Renewable Energy Development Agency (MANIREDA)  
2<sup>nd</sup> Floor, South Block, Secured Office Complex, Near 2<sup>nd</sup> M.R. Gate,  
Imphal-Dimapur Road, Imphal, 795001

Dear Sir,

We understand that any deviation/exception in any form from our bid against the above mentioned reference number may result in rejection of our bid. We, therefore, certify that we have not taken any exceptions/deviations anywhere in the bid and we agree that if any deviation is mentioned or noticed, our bid may be rejected.

Yours faithfully,

(Signature of Authorized Signatory)

Name :  
Designation:  
Firm seal :

Note : This “No Deviation Certificate” should be written on the letter head of the bidder indicating BID No. duly signed and stamped with date by a person competent and having the power of attorney to bind the bidder.

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

**Proforma – 6**

**Format for Guarantee Card**

NIB No.: MANIREDA/SHM & SSL/SASCI/2025-26/20

Date:.....

(To be supplied by bidders on the official letter head of the company/firm)

**Guarantee Card**

Sl. No.	Name & Address of the Manufacturer/ Supplier of the System	
1	Name & Address of the Purchasing Agency	
2	Date of Supply of the System	
3	Details of Solar Modules	
	Name of the Manufacturer	
	Make	
	Model	
	Serial No.	
	Month & Year of Manufacture	
	Guarantee Valid Upto	
4	Details of Luminary Supplied in the System	
	Name of the Manufacturer	
	Make	
	Model	
	Serial No.	
	Month & Year of Manufacture	
	Guarantee Valid Upto	
5	Details of Battery included in the system	
	Name of the Manufacturer	

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
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	Make	
	Model	
	Serial No.	
	Month & Year of Manufacture	
	Guarantee Valid Upto	
6	Designation & Address of the Person to be Contacted for Claiming Guarantee Obligations	

Yours faithfully,

(Signature of Authorized Signatory)

Name :  
Designation :  
Firm seal :

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

**Proforma – 7**

**Format of Completion Certificate**

(On the Office letter head of MANIREDA)

**TO WHOM IT MAY CONCERN**

Imphal, dated .....

No.: .....MANIREDA: This is to certify that M/s .....has Executed the project for installation of 12,000 Nos. of Solar Street Lighting systems and 250 Nos. of High Solar Tower at different locations in Manipur including 5 years Maintenance and Performance Warranty Contract (MPWC) as follows:

Sl. No	Work Order No. & Date	Site Address	Type of System	Capacity	Qty.	Date of Completion
1.			- Solar Street Lighting systems - High Solar Tower Mast			
2.						

Work Order Value	Rs. .....
Executed Work Value	Rs. .....

The installed SLS / SHTM is operating satisfactory.

(Dr. Shailesh Kumar Chourasia)  
Director/Member Secretary, MANIREDA

Copy to:

- (i) M/s.....(Installing Firm)
- (ii) Guard file.

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

**Proforma – 8**

**Format for Submitting the Price Schedule**

BID No.: MANIREDA/SHM & SSL/SASCI/2025-26/20

Date : .....

To,

The Director

Manipur Renewable Energy Development Agency (MANIREDA)

2<sup>nd</sup> Floor, South Block, Near 2<sup>nd</sup> M.R. Gate, Imphal-Dimapur Road, Imphal-795001

**Price Schedule**

**Supply, Installation & Commissioning of 12,000 Nos. of Solar Street Lighting systems and 250 Nos. of High Solar Tower at different locations in Manipur including 5 years Maintenance and Performance Warranty Contract (MPWC)**

Sl. No.	Item	Unit	Total Bid Qty.	Rate (Rs.)	Amount (Rs.)
1	<b>A. SOLAR STREET LIGHTING SYSTEMS:</b>  Project Cost for installation of 12,000 Nos. of Solar Streeting Lighting systems in Manipur including 5 years Maintenance and Performance Warranty Contract (MPWC).	Set	<b>12000</b>		
2	Material cost for 12,000 Nos. of Solar Street Lighting systems as per technical specification @ 75% of Sl. No. 1.	Set	<b>12000</b>		
3	Installation and Commissioning Cost @ 15% of Sl. No. 1.	Set	<b>12000</b>		
4	MPWC Cost for 5 yrs. @ 10% of Sl. No. 1.	Set	<b>12000</b>		
5	GST 5% on Sl. No. 2.	Set	<b>12000</b>		
6	GST 18% on Sl. No. 3.	Set	<b>12000</b>		
7	GST 18% on Sl. No. 4.	Set	<b>12000</b>		
8	<b>Work Order Value to the Firm Sl. Nos. (1+5+6+7)</b>	Set	<b>12000</b>		
9	<b>State Govt. Charges:</b>				
10	Labour Cess @1% on Sl. No. 3.	Set	<b>12000</b>		

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

<b>11</b>	Contingency Charge @3% on Sl. No. 3.	Set	<b>12000</b>		
<b>12</b>	Contingency Charge @3% on Sl. No. 4.	Set	<b>12000</b>		
<b>13</b>	Agency Charge @ 11.75% on Sl. No. 3.	Set	<b>12000</b>		
<b>14</b>	<b>Grand Total Sl. Nos. (8+10+11+12+13)</b>	Set			
<b>15</b>	<b><u>B. SOLAR HIGH TOWER MAST:</u></b>  <b>Project Cost for installation of 250 Nos. of Solar High Tower Mast in Manipur including 5 years Maintenance and Performance Warranty Contract (MPWC).</b>	Set	<b>250</b>		
<b>16</b>	Material cost for <b>250 Nos. of Solar High Tower Mast</b> as per technical specification @ 75% of Sl. No. 15.	Set	<b>250</b>		
<b>17</b>	Installation and Commissioning Cost @ 15% of Sl. No. 15.	Set	<b>250</b>		
<b>18</b>	MPWC Cost for 5 yrs.  @ 10% of Sl. No. 15.	Set	<b>250</b>		
<b>19</b>	GST 5% on Sl. No. 16.	Set	<b>250</b>		
<b>20</b>	GST 18% on Sl. No. 17.	Set	<b>250</b>		
<b>21</b>	GST 18% on Sl. No. 18.	Set	<b>250</b>		
<b>22</b>	<b>Work Order Value to the Firm Sl. Nos. (15+19+20+21)</b>	Set	<b>250</b>		
<b>23</b>	<b>State Govt. Charges:</b>				
<b>24</b>	Labour Cess @1% on Sl. No. 17.	Set	<b>250</b>		
<b>25</b>	Contingency Charge @3% on Sl. No. 17.	Set	<b>250</b>		
<b>26</b>	Contingency Charge @3% on Sl. No. 18.	Set	<b>250</b>		
<b>27</b>	Agency Charge @ 11.75% on Sl. No. 17.	Set	<b>250</b>		
<b>28</b>	<b>Grand Total Sl. Nos. (22+24+25+26+27)</b>	Set	<b>250</b>		
<b>29</b>	<b>TOTAL COST OF THE PROJECT Sl. Nos. (14 +28)</b>				

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

**Note.:**

1. Labour Cess @1% would be deducted at source out of labour charge applicable.
2. Above quoted price are complete in all respect as per Technical Specifications inclusive of all Central/State/Local taxes & duties, packing, forwarding, transit insurance, loading & unloading, transportation & other charges etc. FOR Imphal.
3. The above quoted price is also inclusive of installation, testing, commissioning, performance testing and training at sites of District Head Quarters of Manipur.
4. Certified that rates quoted are as per specifications, terms & conditions mentioned in the bid document.

Yours faithfully,

(Signature of Authorized Signatory)

Name :

Designation :

Firm seal :

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

**Proforma - 9**

**JOINT VENTURE AGREEMENT**

**(To be executed on Non-Judicial Stamp Paper of appropriate value)**

This Joint Venture (JV) Agreement is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2026, by and among:

1. **[Name of Firm A]**, a company incorporated under [Relevant Act], with its registered office at [Address] (hereinafter referred to as the “**Lead Partner**”).
2. **[Name of Firm B]**, a company incorporated under [Relevant Act], with its registered office at [Address] (hereinafter referred to as the “**Partner Member**”).

(Add more members, maximum 3, if applicable)

**1. OBJECTIVE**

The Members hereby form this Joint Venture for the purpose of joint preparation and submission of a bid for the tender: **“Installation of 12,000 Nos. of Solar Street Lighting Systems (SSL) and 250 Nos. of Solar High Masts (SHTM) in Manipur”** vide NIB No. MANIREDA/SHM & SSL/SASCI/2025-26/20 dated **21/01/2026**.

**2. DESIGNATION OF TECHNICAL LEADS (As per Clause 1.1 & 1.2)**

To meet the distinct technical requirements of the tender, the Members hereby nominate the following Technical Leads:

- **SSL Technical Lead:** **[Name of Firm A/B]** is hereby designated as the partner responsible for meeting **100% of the Work Experience Requirements** for Solar Street Lighting Systems (SSL).
- **SHTM Technical Lead:** **[Name of Firm A/B]** is hereby designated as the partner responsible for meeting **100% of the Work Experience Requirements** for Solar High Tower Masts (SHTM).

**3. FINANCIAL ELIGIBILITY (As per Clause 2)**

The Members hereby agree to pool their financial resources. The JV members shall **collectively meet 100% of the Financial Eligibility Criteria** (Net Worth, Turnover, and Liquid Assets) as specified in the following proportion :

Name	Percentage
Member 1	---
Member 2	---
Total	100%

**4. LEAD PARTNER AND AUTHORITY (As per Clause 3)**

The Members hereby nominate **[Name of Lead Partner]** as the **Lead Partner**. The Lead Partner is granted full authority to:

- Incur liabilities and receive instructions for and on behalf of any and all members of the JV.
- Act on behalf of the JV in all tender-related and contract-related matters.
- Sign the bid, the contract, and receive payments from MANIREDA.

## **Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and 250 Nos. of Solar High Tower Masts in Manipur**

## 5. JOINT AND SEVERAL LIABILITY (As per Clause 3)

All members of this Joint Venture shall be **jointly and severally liable** to MANIREDA for the entire execution of the Contract and the successful fulfillment of all obligations, including the defect liability and maintenance periods.

## 6. EVALUATION AND INSPECTION (As per Clause 4)

The Members acknowledge and agree that MANIREDA reserves the right to evaluate the capacity and capability of the JV. This includes:

- Verification of all submitted documents.
- Physical inspections of facilities.
- Assessment of technical, financial, and resource capabilities to ensure successful execution of the full scope of work.

## 7. ROLES AND RESPONSIBILITIES

Member Name	Specific Role	Share of Participation (%)
[Firm A]	[e.g., Lead Partner/SHTM Lead/Project Management]	[e.g., 51%]
[Firm B]	[e.g., SSL Technical Lead/Installation & O&M]	[e.g., 49%]

## 8. RESTRICTIONS

The Members confirm that this is a Joint Venture and not a Consortium, in compliance with the restriction that consortia are not permitted for this bidding process.

<p>For and on behalf of [Lead Partner Name]            (Signature of Authorized Signatory)</p>	<p>For and on behalf of [Partner Member Name]</p>
<p>Name: _____</p>	<p>(Signature of Authorized Signatory)</p>
<p>Designation: _____</p>	<p>Name: _____</p>
<p>Company Seal:</p>	<p>Designation: _____</p>
<p><b>Witnesses:</b></p>	
<p>Signature: _____            (Name &amp; Address)</p>	<p>Signature: _____            (Name &amp; Address)</p>

## Proforma - 10

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

**MATERIALS INSPECTION CLEARANCE CERTIFICATE (MICC)**

**1. Name of the Work:**

“Design, manufacture, supply, erection, testing and commissioning of  
 i) 12,000 Nos. of Solar Street Lighting Systems at different districts of Manipur.  
 ii) 250 Nos. of High Solar Tower Mast at different District Hospitals, CHCs and different  
 Administrative Offices in Manipur  
 including 5(five) years Maintenance and Performance Warrantee Contract (MPWC)’.

**2. Name of Worksite/Location :**

**3. Name of the Firm/Contractor:** .....

**4. Work Order No.:** ..... dated .....

**5. Shipment No. ....**

**6. Date shipped :** .....

**7. Shipped From :** .....

**8. Shipped To :** .....

SL. No.	Item Description	Qty./ system	Invoice No. & date	Challan No. & date	Make	Unit price	Amount	Remarks
1	2	3	4	5	6	7	8	9
1.(a)	SPV Module							
(b)	Luminary							
2.(a)	Pole							
(b)	Electronics							
3.(a)	Battery							
(b)	Charge Controller							
4.(a)	Manual / Warrantee Card							
(b)	Misc. Items, if any							

**9. Enclosed documents:** Packing List with model numbers, Invoice, Challan, Goods Consignment Note, Way Bill etc.

**10. Receiver's Use:** Quantities shown in column 2 were received in apparent good condition except as noted.

**11. Inspected on:** ..... and ..... jointly by MANIREDA officials and representative of M/s ..... at the office of ..... /warehouse of the Firm at Imphal treated as transits store of MANIREDA and found okay.

**12. Destination:** Acceptance of listed items has been made by me or under my supervision and they conform to contract, except as noted herein or on supporting documents.

Date:

Signature of authorized MANIREDA representative Name:

Designation: Scheme Officer

**Check List for Submission of Bid**

The following information/documents are to be annexed and flagged by the bidders along with the BID

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and  
250 Nos. of Solar High Tower Masts in Manipur**

Sl. No.	Annexure and Proforma No.	Particulars	Yes/No, Flag No.
1.	Annexure-I	Details of Earnest Money (D.D. No.) from any nationalized bank and date	
2.	Annexure-II	The bidder is a Registered Company / Firm/ Corporation Registered in India of SPV Cells / Modules / Battery / PV System Electronics/ Solar Luminaries (conforming to relevant National / International Standards)	
3.	Annexure-III	Test Certificate of LED Solar Street Lighting System, Electronics/Solar Luminaries, etc certified from TUV / MNRE approved testing centres (Test Certificate should have been issued on or after Jan 2025).	
4.	Annexure-IV	Test Certificate of Solar High Tower Mast System, Electronics/Solar Luminaries, etc certified from TUV / MNRE approved testing centres. (Test Certificate should have been issued on or after Jan 2025).	
5.	Annexure-V	A copy of valid GST /State VAT/ TIN registration certificate	
6.	Annexure-VI	A summarized sheet of cumulative experience certified by registered CA	
7.	Annexure-VII	Minimum Average Annual Turnover (MAAT): The Bidder must achieve a Revenue from Operations (excluding other income) of over Rs. 15 Crore only in each of the last 5 financial years.	
8.	Annexure-VIII	Cumulative Experience of the Bidder in executing contracts of Solar Street Lighting systems and Solar High Tower Mast systems (Installed & Commissioned).	
9.	Annexure-IX	Demand Draft for cost of bid document/photocopy of Demand Draft	
10.	Annexure- X	Earnest Money Deposit in the form of Demand Draft issued by Nationalised Bank having branch at Imphal	
11.	Proforma - 1	Forwarding Letter.	
12.	Proforma - 2	Authority Letter for Attending Bid Opening Meeting & Signing Bid Document	
13.	Proforma - 3	Information about the Bidding Firm	
14.	Proforma - 4	Details of Orders Received and Executed in Past Years	
15.	Proforma - 5	No Deviation Certificate	
16.	Proforma – 6	Format for Guarantee Card	
17.	Proforma – 7	Format for completion certificate	
18.	Proforma – 8	Format for Submitting the Price Schedule.	
19.	Proforma – 9	Format for Joint Venture Agreement	
20.	Proforma -10	Materials Inspection Clearance Certificate (MICC)	
21.	Annexure	Check List & Format for Submission of Bid.	

Please ensure that,

1. That all information is provided strictly in the order mentioned in the check list mentioned above.
2. Note that this is a zero deviation tender. Bidders are advised to strictly confirm compliance to bid conditions and not to stipulate any deviation/conditions in their offer. Subsequent to bid submission, MANIREDA may or may not seek confirmations/clarifications and any offer(s) not in line with Bid conditions shall be liable for rejection.
3. Any clarification/confirmation bidder may require, shall be obtained from MANIREDA before submission of the bid.
4. Bidder shall submit complete bidding document including subsequent amendment, modification and revision, duly signed and stamped as a token of having read, understood and accepted all the terms and condition mentioned therein.

..... End of Bid Document .....