

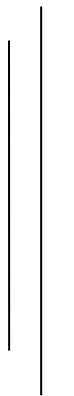
**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and
250 Nos. of Solar High Tower Masts in Manipur**

BID DOCUMENT

For

**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)
2nd Floor, South Block, Secured Office Complex, A.T. Line, Near Imphal Hotel,
Imphal – 795001**

e-mail : manireda99@yahoo.com
Website : www.manireda.mn.gov.in

(This tender document is having 35 pages including this page)

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

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

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

NOTICE INVITING BID

NIB No.: MANIREDA/SHM & SSL/SASCI/2025-26/20 dated: 06/10/2025

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)'.

Date and Time for Pre-Bid Discussion	Last date & time for submission of Tender	Date & time for opening of Tender
13/10/2025 11.00 a.m. (Virtual on Google Meet)	27/10/2025 upto 12.00 Noon	27/10/2025 at 1.00 p.m.

Link for Pre-Bid Meeting: <https://meet.google.com/won-khsx-rwi>

Tender Document can be downloaded from the websites; www.manipurtenders.gov.in or 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 thereof or without bearing any liability, whatsoever, consequent upon such decision.

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

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and
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2. Tender Abstract

Sl. No.	Description	Particulars
1.	Notice Inviting Bid (NIB) No.	MANIREDA/SHM & SSL/SASCI/2025-26/20 dated 27/10/2025
2.	Scope of work	<p>'Design, manufacture, supply, erection, testing and commissioning of</p> <p>i) 12,000 Nos. of Solar Street Lighting Systems at different districts of Manipur.</p> <p>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)'.</p>
3.	Place of issue & submission of bid documents and address for communication	<p>Manipur Renewable Energy Development Agency (MANIREDA),</p> <p>2nd Floor, South Block, Secured Office Complex, Near 2nd M.R. Gate, Imphal-Dimapur Road, Imphal – 795001</p> <p>Website: www.manireda.mn.gov.in</p> <p>E-mail: manireda99@yahoo.com</p>
4.	Date and time of Pre-Bid Meeting	<p>Date: 13th Oct., 2025</p> <p>Time: 11.00 a.m.</p> <p>Link: https://meet.google.com/won-khsx-rwi</p>
5.	Last date & time of submission of bids	<p>Date: 27th Oct., 2025</p> <p>Time: Till 12:00 noon</p>
6.	Date & time of opening of Part - I (Technical Bid)	<p>Date: 27th Oct., 2025</p> <p>Time: 1.00 p.m.</p> <p>Venue: Office of the Director, MANIREDA, 2nd Floor, South Block, Secured Office Complex, Near 2nd M.R. Gate, Imphal-Dimapur Road, Imphal.</p>
7.	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.
8.	Cost of bid document (Non-refundable)	Rs. 1,500/- in the form of D.D. favoring Director MANIREDA payable at Imphal.

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9.	Earnest Money (Refundable)	Rs. 83,00,000/- through online transaction at the account of MANIREDA, and submit self-attested scanned copy mentioning transaction ID along with tender document. Bank details given below.
10.	Time of completion	Within 12(Twelve) months from the date of issue of work order.
11.	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 35 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, 2nd 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 viz. www.manireda.mn.gov.in or from Government portal www.manipur.tenders.gov.in and submit online the cost of the bid document of requisite value, as applicable along with Technical Bid.
- 2.2 Bid applications 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 at the account of MANIREDA, and submit self-attested scanned copy mentioning transaction ID alongwith the technical bid. However, the EMD will be exempted for MSME/NSIC registered Firms.
- 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.

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- 4.2 Security Deposit may be deposited in the form of Demand Draft favoring Director, MANIREDA 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 two years of satisfactory installation and commissioning of the work, the security deposit shall be released.

5. Pre – Bid Meeting:

- 5.1 Link for Pre-Bid Meeting is: <https://meet.google.com/won-khsx-rwi>
- 5.2 Pre-Bid Meeting is compulsory for all Bidders. Bidders who do not participate will not be allowed to participate in the Tender.

6. Submission of Bids:

- 6.1 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.
- 6.2 **No Hard copy shall be submitted.**
- 6.3 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.
- 6.4 The Bid Document without proper paging/ flags of Annexures /details will not be accepted.
- 6.5 Offers submitted without attestation will be rejected.

7. Mode of Submission of Bids:

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

- 7.1 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) Details of Orders Received and Executed in Past 5 years. Bidders should have installed and commissioned at least 10,000 Nos. of Solar Street Lighting systems / 100 Nos. of Solar High Tower Masts and whose work order issued in the name of the bidder.
 - (vi) Test Report of Solar Street Lighting system and from an NABL approved/competent Testing Centres.
 - (viii) Test Report of High Solar Tower Mast system from an NABL approved/competent Testing Centres.
 - (ix) A summarized sheet of turnover for last 5 yrs certified by registered Chartered Accountant.
 - (x) Letter of authorized dealer/service provider in Manipur(If any, or will be appointed by the successful bidder).
 - (xi) ISO 9001 certificate.
 - (xii) ISO 14001 certificate.
 - (xiii) GST Registration Certificate of Company/Firm.
- 7.2 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.

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CHAPTER – II

SCOPE OF WORK:

8. 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)

8.1 Details of sites will be intimated at the time of placement of the Work Order.

8.2 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.

8.3 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.

8.4 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.

8.5 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.

8.6 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) regularly and keep themselves informed.

8.7 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.

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9. Price:

- 9.1 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.
- 9.2 The price should be inclusive of all taxes, duties, levies, incidental charges etc. as on date.

CHAPTER – III

ELIGIBILITY CRITERIA:

10. Eligibility and Qualification Criteria:

- 10.1 The bidder should be:
A Registered Company/Firm/Corporation in India with supporting documents. 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.
- 10.2 Cumulative Turnover of the Company/Firm/ Corporation in the last five financial years (2020-21, 2021-22, 2022-23, 2023-24 & 2024-25) should be at least 50 Crore. This must be the individual Company's turnover and not that of any group of Companies. (A summarized sheet of turnover certified by registered CA should be compulsorily enclosed).
- 10.3 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.
- 10.4 The Bidder should have valid GST registration certificate. A copy of which should be enclosed.

Other Terms and Conditions:

1. OEM Authorization Certificate need to be submitted along with the Technical bid.
2. Bidder need to submit ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, CE Certificate
3. Bidder need to submit valid type test reports for complete system from TUV/MNRE/NABL/BIS authorized lab. The test reports should not be older than Jan 2025.
4. Bidder need to submit BIS of Lithium Ferro Phosphate Battery, and Luminaire, IES 61215 & IEC 61730 for Solar Photovoltaic Module.
5. LM 79 & LM 80 reports need to be submitted along with the technical bid.
6. Bidder/OEM must be assessed by any authorized Third Party Agency.
7. Manufacturer company must have Spectrometer.
8. Manufacturer company must have IP test Lab.

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9. Manufacturer company must have MPPT Tracking machine.
10. One Sample of the offered system need to be submitted before the last date of bid submission.

CHAPTER - IV

PAYMENT TERMS:

11. Terms of Payment:

11.1 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).

11.2 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.
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11.3 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.

11.4 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

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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

12. 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)**.

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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

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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 sublet, 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.

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(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 $\geq 165 - 170$ lm/W.
- 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 must be of single company manufacturing.
- Brand name must be engraved / embossed on the luminaire.

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 aluminium 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.

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

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.

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.

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.

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

SOLAR HIGH TOWER MAST SYSTEMS

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

S.N	Particulars	Capacity/ Model
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. 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 140 lm/W (as per LM 80) CCT 5500 - 6500 K, CRI Minimum 70 & LED wattage minimum 01W.</p> <p>The Luminous flux should be minimum 4000 lumens & 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	Diming Profile	The illumination should be 100% for first 5 Hours, 50% for next 3 Hours and 30% for rest of the time.

Pole, Accessories and Foundation

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 & battery on the top of the mast .There should be provision to install the type tested Winch inside the mast for raising & 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</p>
------	--

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

	together with a minimum overlap of 500 mm. The dimensions of two sections 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) - Thickness of base plate (MM)	580 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 x2500 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 (63mm dia) (Earthing electrode with Marconite), 05 years warranty from the date of installation.

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

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 15th 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

**Tender for Installation of 12,000 Nos. of Solar Street Lighting Systems and
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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.
 - (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/SASCI/2025-26/20

Dated :

To,

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

Sub : Offer In Response to Notice Inviting Bid No. MANIREDA/SHM & SSL/SASCI/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 Warrantee 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 :

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

Designation :
Firm Seal :

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),
2nd 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:

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

Note:

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

Proforma – 3

Information about the Bidding Firm

Sl. No.	Particulars	
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	

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

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 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:

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

(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).

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)
2nd Floor, South Block, Secured Office Complex, Near 2nd 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
250 Nos. of Solar High Tower Masts in Manipur**

	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			
2.			- High Solar Tower Mast			

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.

MANIREDA/SHM & SSL/SASCI/2025-26/20 dated: 06/10/2025	<u>Signature of Bidder</u>
---	-----------------------------------

**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)
2nd Floor, South Block, Near 2ndM.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	<u>A. SOLAR STREET LIGHTING SYSTEMS:</u> 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	12000		
2	Material cost for 12,000 Nos. of Solar Street Lighting systems as per technical specification @ 75% of Sl. No. 1.	Set	12000		
3	Installation and Commissioning Cost @ 15% of Sl. No. 1.	Set	12000		
4	MPWC Cost for 5 yrs. @ 10% of Sl. No. 1.	Set	12000		
5	GST 5% on Sl. No. 2.	Set	12000		
6	GST 18% on Sl. No. 3.	Set	12000		
7	GST 18% on Sl. No. 4.	Set	12000		
8	Work Order Value to the Firm Sl. Nos. (1+5+6+7)	Set	12000		

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

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

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

28	Grand Total Sl. Nos. (22+24+25+26+27)	Set	250		
29	TOTAL COST OF THE PROJECT Sl. Nos. (14 +28)				

• N.B.: Lowest Bidder (L1) shall be accepted for this Price Bid.

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

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 then DC, /warehouse of the Firm at Imphal treated as transits store of MANIREDA and found okay.

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

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

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 NABL Lab. / an authorised testing centres (Test Certificate should have been issued on or after April 2019).	
4.	Annexure-IV	Test Certificate of Solar High Tower Mast System, Electronics/Solar Luminaries, etc certified from NABL Lab./ an authorised testing centres. (Test Certificate should have been issued on or after April 2019).	
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	Overall Average Annual Turnover of the Company / Firm/ Corporation in the last five financial years not less than Rs. 50.00 crore (A summarized sheet of turnover of last three Financial Years certified by registered CA)	
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	

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

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	Materials Inspection Clearance Certificate (MICC)	
20.	Annexure	Check List & Format for Submission of Bid.	

Please ensure:

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