

TENDER BID DOCUMENT

e -Tender for

- (i) Design, manufacture & supply of 7078 nos. White LED-based Solar Home Lighting Systems Model-IV of 24 Wp SPV Module
- (ii) Installation & Commissioning and
- (iii) Maintenance & Performance Warranty Contract (MPWC) for 5years

In respect of

Registered Handloom Weavers in the state of Manipur.

NIB No. MANIREDA/SHLS/C&I/2016/5

Under

Jawaharlal Nehru National Solar Mission
Of
The Ministry of New and Renewable Energy
Govt. of India
&
Government of Manipur

For the Year 2016-2017

Manipur Renewable Energy Development Agency (MANIREDA)
2nd Floor, South Block, Secured Office Complex, A.T. Line, Near Hotel Imphal, Imphal-795001
Tele Fax : 0385-2421594, e-mail : manireda99@yahoo.com Website : www.manireda.com

(This tender document is having 34 pages including this page)

Cost of bid document: Rs 1,500/-

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1. Notice Inviting Bid

Manipur Renewable Energy Development Agency (MANIREDA)

2nd Floor, South Block, Secured Office Complex, AT Line, Near Hotel Imphal, Imphal-795001
Tele Fax : 0385-2421594; e-mail: manireda99@yahoo.com; Website: www.manireda.com

NIB No. : MANIREDA/SHLS/C&I/2016/5

Imphal, dated: 21/07/2016

Online tender is invited from the reputed manufacturers of MNRE approved channel partners as per the details given below:

Item	Tender No.	Quantity Required	Cost of Tender Document	Earnest Money
(i) Design, manufacture & supply of White LED-based Solar Home Lighting System of 24 Wp SPV Module (ii) Installation & Commissioning and (iii) Maintenance & Performance Warranty Contract (MPWC) for 5years	MANIREDA/SHLS/C &I/2016/5	7078 Nos. (Number can be increase or decrease as per actual requireme nt)	Rs. 1,500/-	Rs. 5.00 lakhs

Tender Document can be downloaded from website:www.manireda.com /www.manipur.gov.in for which the cost of Tender Document amounting Rs. 1500/- is to be enclosed as demand draft, in favour of Director, MANIREDA, payable at Imphal during submission of hard copy of tender, failing which, tender shall not be considered. Bidders have to upload their bid at <https://manipurtenders.gov.in>

Bidders have to upload Bid to the aforesaid website as well as submit hard copy. Uploading of tender documents shall be up to 12.00 noon on 11/08/2016. Hard copy of bid documents alongwith Cost of Tender document and Earnest Money should be submitted upto to 12.00 noon of 12/08/2016. The Technical bid shall be opened at 1.00 p.m sharp, on 12/08/2016. The financial bid of the technically qualified Bidders only shall be opened through e-tender, for which date & time will be informed later.

Prospective bidders are requested to remain updated for any amendments/ modifications/cancellation, etc. in the bid document conditions/terms, in the websites www.manireda.com/www.manipur.gov.in and <https://manipurtenders.gov.in>. No separate notifications will be given for such amendments/ modifications in the print media (press) or intimated to the bidders separately.

Director, MANIREDA, reserves the right to reject any or all tenders without assigning any reasons thereof.

Sd/-
Director, MANIREDA

2. Bid Details

TENDER FORM NO :

ISSUED TO : M/s.....

TENDER FEE DETAILS : Vide Receipt No.....Dt.....

DD No..... Bank.....

Sl.	Description	Details
1.	Notice Inviting Bid (NIB) No.	MANIREDA/SHLS/C&I/2016/5 dtd. 21/7/16.
2.	Scope of work	(i)Design, manufacture, supply of 7078 nos. White LED based Solar Home Lighting Systems (SHLs) model IV of 24Wp SPV Module,20 AH Lead acid Tubular flooded battery,4 nos. white LED luminaires etc (ii)Installation & commissioning and (iii)5(five) years Maintenance and Performance Warrantee Contract (MPWC) for Handloom Weavers in the state of Manipur
3.	Place of submission of bid documents and address for communication/Bid Opening Meeting	Manipur Renewable Energy Development Agency (MANIREDA), 2 nd Floor, South Block, Secured Office Complex, AT Line, Near Hotel Imphal, Imphal-795001. Telefax No. : 0385-2421594 Website : www.manireda.com, E-mail : manireda99@yahoo.com
4.	Last date of uploading of bid document in the e-tender	Date : Up to 12.00 noon of 11 th Aug, 2016. e-tendering site : https://manipur.tenders.gov.in
5.	Last date & time of submission of Hard copy of bids	Date : 12 th Aug, 2016 Time : Upto 12:00 noon (submission of documents after 12:00 noon will not be accepted at any circumstances).
6.	Date & time of opening of Technical Bid	Date : 12 th Aug, 2016. Time : at 1.00 p.m sharp. Venue : Office of the Director, MANIREDA, 2 nd Floor, South Block, Secured Office Complex, AT Line, Imphal.
7.	Date & time of opening of Financial Bid	Financial Bids will be opened for only Technically qualified bidders. Date : Will inform accordingly. Time : - Venue : Office of the Director, MANIREDA, 2 nd Floor, South Block, Secured Office Complex, AT Line, Near Hotel Imphal, Imphal.
8.	Cost of bid document (Non-refundable)	Rs 1500/- in the form of D.D. favouring Director MANIREDA payable at Imphal.
9.	Earnest Money (Refundable)	Rs. 5.00 lakhs (Rupees fifteen lakhs only) in the form of D. D. favoring Director MANIREDA, payable at Imphal.
10.	Time of completion	Within three (3) months from the date of work order or 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.
12.	Validity of earnest money	The earnest money shall be submitted by the bidder in the form of demand draft / BG from any Nationalized/Scheduled bank. This demand draft shall have validity for at least 3 months.

3. Detailed Notice Inviting Bid (DNIB)

Manipur Renewable Energy Development Agency (MANIREDA)

2nd Floor, South Block, Secured Office Complex, AT Line, Near Imphal Hotel, Imphal-795001
Telefax : 0385-2421594, e-mail : manireda99@yahoo.com, Website : www.manireda.com

NIB No. : MANIREDA/SHLS/C&I/2016/5

Date: 21/07/2016

Sub : Design, manufacture, supply, installation & commissioning including 5(five) years Maintenance and Performance Warrantee Contract (MPWC) of 7078 nos. White LED based Solar Home Lighting Systems (SHLS) Model IV for Handloom Weavers in the State of Manipur.

Dear Sir/Madam,

Manipur Renewable Energy Development Agency (MANIREDA), Imphal has the pleasure in inviting offers from eligible Indian manufacturers/eligible firms for the above work with your best bidding price offer as per specifications and terms & conditions mentioned in the bid document. Salient features of the bid document are given below:

1. Bid Document

1.1 This Bid Document comprises of total 19 chapters 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.

2. Cost of Bid Document

- 2.1 Bidders can download the Bid Document from Manipur E-Tender website www.manipurertenders.gov.in, www.manipur.gov.in and www.manireda.com and submit the cost of the bid document amounting Rs 1500/-, as applicable along with Technical Bid.
- 2.2 Bid applications without the cost of bid document/exemption document will be rejected.

3. Earnest Money

- 3.1 The bidder should submit in Technical Bid the earnest money deposit @ Rs. 5.00 lakhs in the form of Demand Draft or Bank Guarantee (minimum validity of 3 months) in favour of Director MANIREDA from a Nationalised Bank/scheduled bank.
- 3.2 Bidders failing to submit earnest money will be rejected. In case of claim for exemption from deposition of Earnest Money, sufficient proof in support of claim for exemption of EMD as prescribed in Govt. of India Notification/Manipur Govt.'s Notification is to be attached with the Bid.
- 3.3 The request for adjustment of earlier dues in place of earnest money will not be entertained.3.4
- 3.4 The earnest money shall be returned to all unsuccessful bidders within two weeks from date of finalization of tender.
- 3.5 The earnest money shall be forfeited if –
- Any bidder withdraws his bid or resides from his offer during the validity period.
 - The successful bidder fails to furnish his acceptance of the order within ten days of placement of Work Order by MANIREDA.
 - The bidder fails to complete successfully the work within the stipulated time frame. Delay in completion due to extreme and unavoidable situations will have to get approved by Director, MANIREDA. This approval will also have a cut-off date by which the entire work will have to be completed.

4. Security Deposit:

Security Deposit @ 5% of the total contract value is to be deposited on acceptance of the Work Order within 10 days, of which Earnest Money Deposit shall be adjusted and the balance required amount has to be deposited physically by Demand Draft/Bank Guarantee in favour of Director MANIREDA from a Nationalised Bank/scheduled bank in order to make up full Security Deposit. Security Deposit shall be released on completion of the project.

5. Performance Guarantee

5.1 Performance Warranty Bond shall be deposited by the supplier @5% of the Contract Price excluding Installation & Commissioning and Maintenance and Performance Warranty Contract (MPWC) in the form of Bank Guarantee for 5(five) years period from the date of completion of the project OR in case Bank Guarantee is not furnished, 5% of the Contract price excluding Installation & Commissioning and MPWC shall be retained as Performance Guarantee. If the solar home lighting systems failed to perform as per laid down system specifications or any deviations/compromise has been observed in the system specifications etc. the Performance Warranty deposit of the firm shall be forfeited. **The successful bidder/Contractor shall submit the Original Warranty documents of SPV Modules, Luminaire and Battery to MANIREDA during the supply of the systems.**

6. Submission of Bids:

Bidders have to upload the document mentioned in Para 6.1 in the e-tender website (<https://manipur.tenders.gov.in>). Bidders shall also have to submit hard copies of the uploaded documents as well as stated at Para 6.4 & 6.5:

- 6.1 Bidders are advised to submit their bids strictly based on the specifications, terms and conditions contained in the bid document and subsequent revisions/amendments, if any.
- 6.2 The bid shall be prepared and submitted by typing or printing in English with indelible black ink on white paper in consecutively numbered pages duly signed by the authorized signatory with company seal affixed on each page. Any part of the bid, which is not specifically signed by the authorized signatory and not affixed with company seal, shall not be considered for the purpose of evaluation.
- 6.3 Original copy of bid document, amendments/revisions to bid document, including minutes of meeting(s), issued by MANIREDA, if any, shall be signed and submitted along with the bid.
- 6.4 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.
- 6.5 The offer shall contain no erasures or overwriting except as necessary to correct errors made by bidder. Such corrections, if any, shall be initialed by the person signing the offer.
- 6.6 Hard copy of Bid Document should only be submitted in Hard Bond or Spiral Binding.
- 6.7 The Bid Document should have proper paging and flagging of Annexures/details.
- 6.8 Any Overwriting /illegible/erasing, etc. in the documents submitted by the firms shall not be accepted and will not be considered in the evaluation.

7. Mode of Submission of Bids: Bidders have to both upload document as well as submit hard copy as stated below:

- 7.1 The bidder shall submit/upload the scanned copies of the following documents with Digital Signature certificate in the E-tender:
 - (i) Scanned copy of Tender Fee and scanned copy of Earnest Money Deposit (EMD)/ or exemption letter from competent authority.
 - (ii) Forwarding Letter- Proforma -1
 - (iii) Authorising 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 3 years (Solar Home Lighting system only) - Proforma-4
 - (vi) Document for being valid Channel Partner of MNRE under JNNSM (SPV) with credit rating
 - (vii) Certificate of manufacturing SPV Cell/Module or control electronics of LED Solar Home Lighting System conforming relevant national/international standards
 - (viii) Valid Test Certificate conforming to MNRE approved specifications of W-LED Solar Home Lighting System from an authorized testing centre of the MNRE. (Test Certificate conforming

- MNRE specification 2013-14 onwards).
- (ix) Test Reports of components like PV module, Luminaire, Battery from MNRE approved/competent testing centres.
 - (x) Cumulative Experience of the Bidder in executing contracts of Solar home lighting should be minimum Rs.3.00 crores in the last 3 years in the name of the bidder to Govt. aided/Govt. Deptt./Institutions. Supporting documents for proof of experience should be submitted.
 - (xi) A summarized sheet of turnover for last 3yrs certified by registered Chartered Accountant.
 - (xii) Letter of authorized dealer/service provider registered as per MVAT Act in Manipur.
 - (xiii) Registration Certificate of Company/Firm.
- 7.2. The bidder shall download the template of Price Bid/Schedule of Works /Bill of Quantity (BOQ) as mentioned in the Proforma-9 which is uploaded in the Tender in the aforesaid site (<https://manipurenders.gov.in>). After downloading the BOQ, the bidder shall fill their rate & quantity of the items as per BOQ, digitally signed and upload the filled BOQ in the same site.
- 7.3. The bidder need not submit BOQ/Price Bid in hard copy.
- 7.4. The bidder also must submit Hard copy of documents stated above at Para 6.1(i) to 6.1(xii) with all supporting document like copies of work orders in support of cumulative experience clearly indicating Amount and capacity of work.
- 7.5 In addition, the bidder must submit hard copy of other remaining Proformas and Annexures as listed in the Check list with supporting documents.
- 7.6 The hard copy of Technical Bid should be submitted in a sealed envelope superscribed "NIB No. : MANIREDA/SHLS/C&I/2016/5 (Technical Bid)",to the office MANIREDA, 2nd Floor, South Block, Secured Office Complex, AT Line, Near Hotel Imphal, Imphal-795001 addressed to Director, MANIREDA. This envelope should contain the following:
- (i) Cost of bid document (for the bidders who have downloaded the bid document from web site).
 - (ii) Original Earnest Money Deposit by Demand Draft or BG of requisite value.
 - (iii) Technical Bid should not contain price of any item. Such cases, even if found anywhere, shall not be given any cognizance.
- 7.7 Only one copy of Technical Bid (hard copy) should be submitted.
- 7.8 The hard copy with earnest money and cost of tender document has to be submitted during the period upto 12.00 noon. of 12th Aug, 2016 failing which no late comers would be entertained.

8.0 Scope of Work

- 8.1 The scope of work shall be as indicated in the Bid Details.
- 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.
- 8.3 The Bidder shall carefully check the specifications and shall satisfy himself regarding the technical requirement and completeness of the equipment/system.
- 8.4 The bidders should beforehand thoroughly familiarized with the 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/price/cost of the work due to any reason will not be entertained at any circumstances.
- 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. MANIREDA reserves the right to award the work to more than one firm, if necessary, by bifurcating the total numbers of systems to be supplied among bidders in consideration of volume of work and early completion of the project.**

9.0 Price

- 9.1 The Bidder shall quote price as per Proforma - 9. 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, etc. as on date.
- 9.3 The quoted rate for 5(five) years MPWC (Maintenance and Performance Warranty Contract)

should not be less than 10% of the cost of the system, otherwise, the offer will be invalid and disqualified.

10.0 Terms of Payment

10.1 Subject to any deductions, which MANIREDA may be authorized to make under the terms of the order, the contract price shall be payable as per general clauses of contract enclosed.

11.0 Authority of Person Signing the Documents

11.1 The Bidders should furnish the Authorization letter as per Proforma – 2 with the seal of the company for the person attending Bid Opening meeting & signing the bid document.

11.2 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.

12.0 No Claim or Compensation for Submission of Tender.

12.1 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.

13.0 Eligibility and Qualification Criteria

13.1 The bidder should be:

A Registered Manufacturing Company/Firm/Corporation in India of SPV Cells/Modules or control electronics (Conforming to relevant National/International Standards). Cumulative Experience of the Bidder in executing contracts of Solar home lighting systems should be minimum Rs. 3.00 crores in the last 3 years in the name of the bidder to Govt. aided/Govt. Deptt./Institutions. Supporting documents for proof of experience should be submitted. (Copies of work orders must be enclosed to support the cumulative experience).

13.2 The bidder should be a MNRE accredited Channel Partner having credit rating (from MNRE Accredited Rating Agency).

13.3 Bidder should have Test Certificate for the components of tendered W-LED Solar Home Light like PV Module, Battery, etc. from an approved/competent testing centres as per requirements under the JNNSM scheme of the MNRE, GOI.

13.4 The Bidder should have valid CST /State VAT/ TIN registration certificate. A copy of which should be enclosed.

13.5 Overall Average Annual Turnover of the Company/Firm/ Corporation in the last three financial years (2013-14, 2014-15 & 2015-16) should be at least 3.00 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)

13.6 The Bidder should have registered office/authorized dealer/service network in Manipur as per MVAT Act 2005 and for smooth execution of MPWC, in place **before award of contract.**

13.7 **For MNRE Channel Partners based in Manipur, the experience, turnover may be relaxable. The firm should be a manufacturer having valid test certificate of LED Home Lighting system in its name or the firm may participate the tender as System Integrator by submitting valid test certificates of the LED Home Lighting Systems of other companies to be supplied.**

14.0 Validity of Offer

14.1 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.

15.0 Other Terms & Conditions

15.1 Insertion, post-script, addition and alteration in Hard Copy shall not be recognized unless confirmed by bidder's signature and stamp.

15.2 Incomplete tender or tenders not submitted as per requirement as indicated in the NIB are

- likely to be rejected.
- 15.3 Bidders shall submit their offer strictly as per terms and conditions of the tender document without any deviation.
 - 15.4 If at any time any of the documents/information submitted by the bidder is found to be incorrect, false or untruthful, the resultant order may be summarily rejected/cancelled at the risk of the bidder.
 - 15.5 Failure to furnish all information and documentary evidence as stipulated in the bid document or submission of an offer that is not substantially responsive to the bid document in all respects shall be summarily rejected.
 - 15.6 All bids (hard copy) will be received in duly sealed cover within the due date and time. Bids received after the due date and time is liable for outright rejection.
 - 15.7 MANIREDA reserves the right to reject part or whole of the bid/order without assigning any reason thereof postpone the date of receipt and opening of the bids or cancel the bid without bearing any liability, whatsoever, consequent upon such decision.
 - 15.8 Attestation of Various documents enclosed along with the offer must self-attestation by the Proprietor/Competent authority of the Firm.
 - 15.9 The bidder must fulfill both uploading documents and submission of hard copy in the manner mentioned above.

4. GENERAL TERMS & CONDITIONS

1.0 Scope of Work

- 1.1 The Scope of work for W-LED Solar Home Lighting system includes (i) Design, manufacture, shop testing, packing & forwarding, transportation, transit insurance, supply of 24Wp SPV Module W-LED Solar Home Lighting system Model IV to 7078 nos. handloom weavers via transit godown of MANIREDA for checking/store entry, (ii) installation, testing & commissioning of 24Wp SPV Module W-LED Solar Home Lighting system Model IV for 7078 nos. handloom weavers (iii) 5 years Maintenance & Performance Warranty Contract (MPWC) of SHLS complete in all respects along with one set each of connection & wiring diagram, warranty card and installation & operational instruction cum maintenance manual (in English) .

2.0 Opening and Evaluation of Bids

- 2.1 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-795001** in presence of bidders or their authorized representatives who choose to attend the meeting. The representative should produce authorization letter to attend the bid opening meeting in the Proforma -2.
- 2.2 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.
- 2.3 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.
- 2.4 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.com) regularly and keep themselves informed.
- 2.5 The prices shall be evaluated for W-LED Solar Home Lighting system on the Total Price (P):- (a) System cost including, insurance, transportation etc. FOR at Imphal (b) Installation & Commissioning including VAT, Labour Cess, Service Tax, etc. and (c) MPWC for 5 years period including Service Tax).
- 2.6 The bidders shall be ranked L1, L2, L3as per the Total Price (P). The work order will be issued subject to the acceptance of the bidders to supply at approved rate.
- 2.7 MANIREDA, if required, may at its discretion extend the scheduled date of opening of Financial Bid.

3.0 Award of Contract/Work Order

- 3.1 The contract/work order shall be awarded to the bidder whose financial Bid was acceptable and who is selected by the Departmental Tender Committee /Higher Tender Committee to undertake the work at the approved rate. **MANIREDA reserves the right to award the work to more than one firm, if necessary, by bifurcating the total numbers of systems to be supplied among bidders in consideration of volume of work and early completion of the project.**

4.0 Quantity Required

- 4.1 The number of systems required as given in the Bid Details of Notice Inviting Bid is tentative and is subject to increase or decrease depending upon the actual requirement at the time of placing order and resources available.

5.0 Effective Date of Contract

- 5.1 The effective date of commencement of execution of the order by the contractor shall be the date of issue of the Purchase/Work Order.

6.0 Contract Price

- 6.1 The total contract price and 5 years MPWC, in full and complete set including SPV module, control electronics, battery, luminaires, balance of system etc. should be quoted in Proforma -9. The price shall be for the total scope as defined in this document.
- 6.2 The income tax shall be deducted as applicable at the existing rate.

6.3 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 – 9).

7.0 Terms of Payment

- (a) 20% of the total work order value (excluding installation, commissioning and MPWC cost) shall be released as mobilisation advance against the submission of Bank Guarantee of equivalent amount from a Nationalised Bank valid at least for a period of 6 months after verification subject to availability of fund from MNRE, GoI or other sources. The mobilisation advance so paid shall be interest bearing @ 9% per annum effective from the day on which advance payment is made.
- (b) 50% of the total work order value (excluding installation, commissioning and MPWC charges) or 70% if the mobilisation advance is not taken for each bill shall be released against delivery of goods in full and in good condition(or @ complete materials for minimum 500 systems each) subject to availability of fund from MNRE, GOI or other sources:-
1. Certificate of Supply of SHLS received by the consignee as specified.
 2. Commercial invoice of the supply made in triplicate.
 3. Copy of delivery challan/transportation challan/lorry receipt
 4. Material Inspection Certificate.
- (c) Balance 30% of the contract price (excluding installation, commissioning and MPWC charges) and 100% of installation, commissioning charges shall be paid against duly verified completion report with successful installation and commissioning of the systems after submission of the following documents & subject to availability of fund from MNRE, GoI or other sources:
1. Certificate of installation & commissioning of SHLS received by the consignee as specified in Proforma – 7.
 2. Details of the module, battery, control electronics, luminaire & balance of system utilization report of SHLS installed under the SPV Program as specified in Proforma-9
 3. Commercial invoice of the supply made in triplicate.
 4. Copy of delivery challan/transportation challan/lorry receipt.
 5. Verification of Certificate of Commissioning from the beneficiary countersigned by officer concerned.
 6. Photographs of beneficiaries along with Home Lighting system installed in soft copy(CD/DVD).
 7. All payments shall be released by MANIREDA through account Payee Cheque issued in favour of the Supplier/Contractor or e-payment through RTGS/account transfer as the case may be for which the following mandatory information is to be furnished;

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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- d) The contractor has to deposit @5% of the project cost (excluding MPWC) as Performance Guarantee in terms of irrevocable Bank Guarantee for the tenure of the contract including MPWC. In case, the Contractor opted for withholding 5% payment in lieu of depositing 5%, then 5% of system cost plus installation charges would be withheld for the Performance Guarantee period of 5year. 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.
- e) MPWC charges shall be released on 5 equal yearly installments on satisfactory performance. The record of maintenance & performance sheet duly filled up and signed by the Beneficiary shall be submitted to MANIREDA on half yearly basis, by 15th of the next month.

8. Security Deposit:

5% of the total contract value is to be deposited as Security Deposit on acceptance of the Work order within 10 days of which Earnest Money Deposit shall be adjusted (in case of EMD deposited) and the balance has to be deposited physically by Demand Draft in order to make up

full Security Deposit. Security Deposit shall be released on completion of the project.

9.0 Income Tax :

9.1 Without prejudice to the obligations of the Supplier/Contractor under law, any Income Tax, which MANIREDA may be required to deduct by law/statute, shall be deducted at source and shall be paid to the Income Tax authorities on account of the Supplier. MANIREDA shall provide the Supplier a certificate for such deduction of tax.

10.0 Statutory Variations in Taxes and Duties:

10.1 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.

10.2 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.

11.0 Agreement:

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

12.0 Inspection of the Factory and Tests:

12.1 MANIREDA reserves the right to inspect the manufacturer's works/factory to ascertain the capability/availability of necessary equipment & infrastructure required for manufacture of the item offered before opening of the Financial Bid of the bidders.

12.2 MANIREDA shall have access and right to inspect the work or any part thereof at any stage.

12.3 MANIREDA shall have the right to inspect and test the goods to confirm their conformity to the technical specifications after delivery of goods to consignee.

12.4 Successful bidder shall inform MANIREDA at least 25 days in advance of schedule dispatch.

13.0 Dispatch Instructions:

13.1 All items/equipments may be subjected to pre-dispatch inspection by Director, MANIREDA or its 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.

14.0 Transit Insurance:

14.1 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.

15.0 After Sales Service and Availability of Spare Parts:

15.1 The Supplier shall depute authorized Service Engineer within 3 days from the date of the intimation of fault, and establish sufficient inventory of spares, 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. Address, contact number etc. of the Servicing centre must be submitted before commencement of the work.

16.0 Completion Schedule:

16.1 The completion time frame of the project is 3(three) months. Delivery of goods at FOR destination in full as per the terms and conditions of the contract/order shall be completed within **two (2) months and installation works should be completed within one(1) month from the date of issue of work order.**

17.0 Guarantee/Warranty Period:

- 17.1 The manufacturer must provide guarantee which include servicing & replacement guarantee for parts and components (such as battery, electronics, luminaires etc) of Solar Home Lighting systems for 5 (five) years. For PV modules, it must be warranted for its output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years from the date of commissioning the SHLS at site/place & demonstration of performance to the consignee/MANIREDA.
- 17.2 The guarantee card to be supplied with the system must contain the details of the system supplied as given in the Proforma - 6. The manufacturers can also provide additional information about the system and condition of guarantee as necessary.
- 17.3 Supplier/contractor shall without prejudice to any other clauses of the order repair/replace 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.

18.0 Assignment/Sub Letting/Pre Bidding Tie Up:

- 18.1 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.
- 18.2 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.
- 18.3 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.

19.0 Liquidated Damages for Delay in Completion:

- 19.1 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.
- 19.2 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.
- 19.3 The liquidated damages for delayed completion shall be recovered from the Supplier's Bill.
- 19.4 Deductions/payment of liquidated damages shall in no way relieve the Supplier from his contractual responsibility to complete the works.

20.0 Cancellation of Order :

- 20.1 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.

21.0 Arbitration :

- 21.1 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.
- 21.2 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.

- 21.3 The venue of arbitration proceeding shall be within Jurisdiction of Court of Law at Imphal only.
- 21.4 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.

22.0 Force Majeure :

- 22.1 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, acts of foreign enemy, 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.
- 22.2 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.
- 22.3 The above-mentioned force majeure conditions/clause shall also apply in the works of sub-contractors/suppliers of the contractor.
- 22.4 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.

5. Technical Specification

WHITE-LED (W-LED) BASED SOLAR HOME LIGHTING SYSTEM

1. DEFINITION:

A solar home lighting system (SHLS) provides a comfortable level of illumination in one or more rooms of a house. The SHLS consists of a PV module, control electronics, battery, and luminaire(s). There are several SHLS models featuring one, two, or four luminaires based on White Light Emitting Diode (W-LED). The system could also be used to run a small DC fan or a 12-V DC television along with the W-LED lamps.

PV module converts sunlight into electricity, which powers the luminaire(s). White Light Emitting Diode (W-LED) is a solid state device which emits light when electric current passes through it.

2. BROAD PERFORMANCE SPECIFICATIONS:

PV Module	24 Watt peak under STC
Battery	Lead acid sealed maintenance free Tubular flooded type, 12V/20 AH @ C/20.
Light Source	2.5 Watts(Max.), Four White Light Emitting Diode (W-LED) Luminaires.
Light Output	Minimum 15 Lux when measured at the periphery of 2.5 meter diameter from a height of 2.5 meter. At any point within area of 2.5 meter diameter periphery the light level should not be more than three times of the periphery value. The illumination should be uniform without Dark Bands or abrupt variations and soothing to the eyes. Higher output would be preferred.
Multiple Light Levels	To take care of different lighting needs as per user's requirement. The lamp should have multiple levels of lights (at least two levels) to take care of different lighting needs during the night.
Mounting of light	Wall or ceiling
Electronics	Minimum 85 % efficiency. It should have a socket to provide power for a 12V DC TV set which can be purchased separately.
Average duty Cycle	5 hours a day under average daily insolation of 5.5 kWh/ sq.m on a horizontal surface.
Autonomy	3 days or Minimum 15 operating hours per permissible discharge.

TECHNICAL DETAILS:

3. PV MODULE(S):

- (i) Indigenously manufactured PV modules should be used.
- (ii) The PV module should be made up of crystalline silicon solar cells and must have a certificate of testing conforming to IEC 61215 Edition II/BIS 14286 from an NABL or IECQ accredited Laboratory.
- (iii) The power output of the module(s) under STC should be a minimum of 24 Wp.
- (iv) The Load voltage* of 16.40 V for 12 V battery or appropriate voltage for charging of battery used, under the standard test conditions (STC) of measurement.
- (v) **The module efficiency for PV modules 24 Wp capacity should not be less than 12 %.**
- (vi) The terminal box on the module should have a provision for opening, for replacing the cable, if required.
- (vii) There should be a Name Plate fixed inside the module which will give:
 - a. Name of the Manufacturer or Distinctive Logo
 - b. Model Number
 - c. Serial Number
 - d. Year of the manufacture

(viii) **A distinctive serial number starting with NSM will be engraved on the frame of the module or screen printed on the teller sheet of the module.**

* The Load voltage conditions of the PV modules are not applicable for the system having MPPT based charge controller.

4. BATTERY (Lead acid Tubular flooded):

- (i) The battery should have a minimum rating of 12V, 20Ah at C/20 rate of discharge.
- (ii) At least 75 % of the rated capacity of the battery should be between fully charged & load cut off conditions.
- (iii) Battery should conform to the latest BIS/International standards.

5. LIGHT SOURCE:

- (i) The light source will be of white LED type.
- (ii) The colour temperature of white LEDs used in the system should be in the range of 5500^o K – 6500^o K.
- (iii) W- LEDs should not emit ultraviolet light.
- (iv) The light output from the white LED light source should be constant throughout the duty cycle.
- (iv) The lamps should be housed in an assembly suitable for indoor use.

6. ELECTRONICS:

- (i) The total electronic efficiency of the LED driver should be at least 85%.
- (ii) Electronics should have temperature compensation for proper charging of the battery throughout the year. The idle current should be less than 2 mA.
The voltage drop from module terminals to the battery terminals should not exceed 0.8 volts including the drop across the diode and the cable when measured at maximum charging current.
- (iii) The PCB containing the electronics should be capable of solder free installation and replacement.
- (v) Necessary lengths of wires/cables, switches suitable for DC use and fuses should be provided.
- (vi) The system should have a USB port for mobile charging.

7. ELECTRONIC PROTECTIONS:

- (i) Adequate protection is to be incorporated under “No Load” condition, e.g. when the lamps is removed and the system is switched ON.
- (ii) The system should have protection against battery overcharge, deep discharge condition.
- (iii) Load reconnect should be provided at 80% of the battery capacity status.
- (iv) Adequate protection should be provided against battery reverse polarity.
- (v) Fuses should be provided to protect against short circuit conditions.
- (vi) Protection for reverse flow of current through the PV module(s) should be provided.

8. MECHANICAL COMPONENTS:

- (i) Corrosion resistant metallic frame structure should be provided to hold the SPV module.
- (ii) The frame structure should have provision to adjust its angle of inclination to the horizontal, so that it can be installed at the specified tilt angle.
- (iii) Light source should be either for wall mounted or ceiling mounted or can be hung from the ceiling in a stable manner, as per site requirements.
- (iv) A vented plastic/ wooden/ metallic box with acid proof corrosion resistant paint for housing the storage battery indoors should be provided.

9. INDICATORS :

- i) The system should have two indicators, green and red.
- ii) The green indicator should indicate the charging under progress and should glow only when the charging is taking place. It should stop glowing when the battery is fully charged.
- iii) Red indicator should indicate the battery "Load Cut Off" condition.

10. QUALITY AND WARRANTY:

- (i) **The Solar home lighting system will be warranted for a period of five years from the date of supply.**
- (ii) **The PV module(s) will be warranted for a minimum period of 25 years from the date of supply.** PV modules used in Solar Home Lighting System must be warranted for their output peak watt capacity, which should not be less than 90% at the end of Ten (ten) years and 80% at the end of 25 (Twenty five) years.
- (iii) The battery should be warranted for **a period of 5 (five) years.**
- (iv) The Warranty Card to be supplied with the system must contain the details of the system. The manufacture can also provide additional information about the system and conditions of warranty as necessary.

11. OPERATION and MAINTENANCE MANUAL:

An Operation, Instruction and Maintenance Manual, in English and the local language, should be provided with the Solar Home Lighting System. The following minimum details must be provided in the Manual:

- (a) Basic principles of Photovoltaics.
- (b) A small write-up (with a block diagram) on Solar Home Lighting System – its components, PV module, battery, electronics and luminaire and expected performance.
- (c) Significance of indicators.
- (d) Type, Model Number, Voltage & capacity of the battery used in the system.
- (e) The make, model number, country of origin and technical characteristics (including IESNA LM-80 report) of W-LEDs used in the lighting system must be indicated in the manual.
- (f) Clear instructions about mounting of PV module(s).
- (g) Clear instructions on regular maintenance and troubleshooting of Solar Home Lighting system.
- (h) DO's and DONT's.
- (i) Name and address of the contact person for repair and maintenance.

6. FIVE YEARS MAINTENANCE & PERFORMANCE WARRANTY CONTRACT (MPWC)

1.0 The Maintenance and Performance Warranty Contract (MPWC)

- 1.1 After the works are awarded to the successful Bidder/Bidders, he/they enter into a Maintenance & Performance Warranty Contract (MPWC) with MANIREDA which includes the scope of proper functioning and maintenance of the W-LED SPV Home Lighting system for a period of 5(five) years. The date of MPWC period shall begin from the actual date of successful installation of the Solar Home Lighting System. The Maintenance & Performance Warranty Contract shall include servicing & replacement guarantee for parts and components (such as SPV Module, Battery, control electronics, Luminaire, balance of system etc.) of W-LED Solar Home Lighting for 5 years from the date of installation. For PV modules, the replacement guarantee is for 25 years.
- 1.2 The Contractor should also brief the beneficiary on operation & maintenance etc. in order to facilitate easy function of the system after MPWC period.
- 1.3 The maintenance service provided shall ensure proper functioning of the W-LED SPV Home Light as a whole. All preventive/routine maintenance and defect/corrective maintenance required for ensuring maximum uptime shall have to be provided by the Contractor. The Contractor shall furnish a Maintenance & Performance Report sheet duly filled up and signed by the Beneficiary for every half yearly to MANIREDA within 15th day of following month during the MPWC period. **If the Contractor fails to submit half yearly performance report of each of every system within the stipulated 15 days, penalty @ Rs. 5/- per Home Lighting system shall be imposed for every month delayed.** The amount will be deducted during the release of MPWC charges.
- 1.4 The Maintenance and Performance Warrantee Contract (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 W-LED SPV Home Light, cleaning of module surface, checking of all control electronics connections, checking of batteries including cleaning & greasing of battery terminals and any other activity that may be required for proper functioning of the system as a whole.

3.0 Defect/Corrective Maintenance

- 3.1 Whenever a complaint is lodged by the user, the bidder shall attend to the same within a reasonable period of time say 3 days and in any case the non-functional/defect of the system 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 end user, system and sub-system serial numbers and records of routine maintenance carried out (duly signed by the end user).
 - (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 half yearly basis. These reports shall include the following information:
 - (a) Number/Type of components of the system 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 centre caters to the requirement of more than one manufacture.
- 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 installation of the SPV systems. If during the MPWC period, the system becomes non-functional due to any defect or shortage of spares etc. for a period more than 2 weeks 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 without the Performance Report sheet duly filled up and signed by the Beneficiary.**
- 3.6 Bidder shall furnish details of infrastructure that are presently available for establishing of Service Centers.
- 3.7 The servicing Centre shall have a live Mobile /landline Number for Contact from/to Beneficiaries and MANIREDA.

7. Proforma - 1

Forwarding Letter

NIB No.: MANIREDA/SHLS/C&I/2016/5

To,

The Director

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

Sub: Offer in Response to Notice Inviting Bid No. MANIREDA/SHLS/C&I/2016/5 for (i) Design, manufacture, shop testing, packing & forwarding, transportation, transit insurance, supply of 24Wp SPV Module W-LED Solar Home Lighting system at Imphal via transit godown of MANIREDA for checking/store entry, (ii) installation, testing & commissioning of 24Wp SPV Module W-LED Solar Home Lighting system at Imphal (iii) 5 years Maintenance & Performance Warranty Contract (MPWC) for 7078 no. handloom weavers in the state of Manipur.

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 in sealed envelopes duly marked as indicated below:

(Technical Proposal): Submitted in original

The Financial Proposal is submitted online in e-tender

We also confirm that:

2. We are an Indian company/firm.
3. The components of SPV systems shall be indigenously manufactured.
4. We have never been debarred from executing similar type of work by any Central/ State/ Public Sector Undertaking/Department/Nodal Agency.
5. The Bid Document is downloaded from MANIREDA website and necessary document in support is enclosed.
6. We shall execute the offer/work order as per specifications, terms & conditions of the Bid Documents on award of work.
7. Our offer shall remain valid for placement of purchase orders up to 365 days from the due date of submission of offer.
8. 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 :
Company Seal :

8. Proforma - 2

Authority Letter for Attending Bid Opening Meeting & Signing Bid Document

NIB No.: MANIREDA/SHLS/C&I/2016/5

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.

I hereby authorize (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 :
:

(Signature of Authorized Signatory)
Name : Designation
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.

9. Proforma – 3

Information about the Bidding Firm

NIB No.: MANIREDA/SHLS/C&I/2016/5

Date:.....

Sl.	Particular			
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.	Sales Tax/Value Added Tax 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.	Total Production and Sale of PV Products During the Last Three Years (in Rupees)	2013-14	Production	Sales
		2014-15		
		2015-16		
17.	Name of Material and Model Type Offered			

18.	Name of Manufacturer of SHLS with Full Address	
	1.	PV Module
	2.	Control electronics
	3.	Battery
	4.	Luminary
20.	Particulars of Earnest Money	
21.	Quantity Quoted for W-LED Solar Home Light	
22.	Name of the Test Center where the testing of Components SHLS has been performed	
23.	Test Report No. of components SHLS mentioning date of test	
24.	Specify MNRE specification as in the test report	
25.	Place where Materials will be Manufactured	
26.	Place where Materials will be Available for Inspection	
27.	Whether the Bidder has submitted details with regard to supplies made to important organizations.	
28.	Details of any existing service network in Manipur (Name & address of service centre)	
30.	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 in seriatim duly signed. This bid proforma must be submitted duly signed in case separate sheet is submitted).

10.Proforma - 4

Details of Orders Received and Executed in Past Years

NIB No.: MANIREDA/SHLS/C&I/2016/5

Date:.....

Details of Orders Received & Executed by the Manufacturer/Supplier for Supply of SHLS to SNA/ Govt. Organization/ Govt. Deptt. during past Years.

Sl. no.	Name of Agency/ Organization	Purchase Order No., Date & Ordered Qty.	Name of Model	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 in seriatim duly signed. This bid proforma must be submitted duly signed in case separate sheet is submitted

11.Proforma - 5

No Deviation Certificate

NIB No.: MANIREDA/SHLS/C&I/2016/5

Date:.....

To,

The Director
Manipur Renewable Energy Development Agency (MANIREDA),
2nd Floor, South Block, Secured Office Complex, AT Line, Near Imphal Hotel,
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 :

Company 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.

12. Proforma - 6

<p>Format for Guarantee Card to be Supplied with W-LED Solar Home Light</p>
--

NIB No.: MANIREDA/SHLS/C&I/2016/5

Date:.....

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

Guarantee Card

1.	Name & Address of the Manufacturer/ Supplier of the System	
2.	Name & Address of the Purchasing Agency	
3.	Date of Supply of the System	
4.	Details of PV Module(s) Supplied in the System	
	(a) Name of the Manufacturer	
	(b) Make	
	(c) Model	
	(d) Serial No.	
	(e) Wattage of the PV Module(s) under STC	
	(f) Guarantee Valid Upto	
5.	Details of Battery	
	(a) Name of the Manufacturer	
	(b) Make	
	(c) Model	
	(d) Batch/Serial No(s).	
	(e) Month & Year of Manufacture	
	(f) Rated V & AH Capacity at C/20	
	(g) Guarantee Valid Upto	
6.	Details of Luminary & Other BOS Items	
	(a) Name of the Manufacturer	
	(b) Make	
	(c) Model	
	(d) Serial No(s).	
	(e) Month & Year of Manufacture	
	(f) Guarantee Valid Upto	
7.	Designation & Address of the Person to be Contacted for Claiming Guarantee Obligations	

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

13. Proforma - 7

Format for Certificate of Supply, installation & commissioning of W-LED Solar Home Light Received by the Consignee as Proof of Compliance by the Supplier

NIB No.: MANIREDA/SHLS/C&I/2016/5

Date:.....

CERTIFICATE

Consignee
Name of Department
Address

Certified thatnos. (in word.....) of W-LED Solar Home Light (24 Wp SPV Module, 12V/20AH lead acid tubular flooded battery complete with 4(four) W-LED Luminaire 2.5 Watts(Max.) with Control Electronics, Cables, etc.) has been supplied, installed and commissioned for 7078 no. handloom weavers in the state of Manipur by M/s with funding from Ministry of New and Renewable Energy(MNRE), Govt. of India and Govt. of Manipur as per terms of Work Order No.....dtd.....

Signature of Consignee.....

Name.....

Designation.....

Seal.....

Signature of Consignee.....

Name:.....

Designation:.....

Seal

14. Proforma - 8

Format for Location-wise Detail of the Module & Battery, Utilisation Report of W-LED based Solar Home Light (SHLs) Installed Under Solar Photo Voltaic Programme (SPV) JNNSM of MNRE, Govt. of India

NIB No. : MANIREDA/SHLS/C&I/2016/5

Date :

Name of Manufacturer/Supplier :

Name of Consignee :

Address of Consignee :

Sl. No	Name of beneficiary with address	District	Module			Battery			Luminaire with Control Electronics			Date of Installation
			Number	Make	Year of Manufacture	Number	Make	Year of Manufacture	Number	Make	Year of Manufacture	

15.Proforma - 9

Format for Submitting the PRICE SCHEDULE/FINANCIAL BID (To be uploaded ONLINE only) for Design, Supply, Installation & Commissioning with 5 years of Maintenance & Performance Warranty Contract (MPWC) of 24Wp SPV Module W-LED Solar Home Lighting system for 7078 no. handloom weavers in the state of Manipur.

NIB No.: MANIREDA/SHLS/C&I/5

Date :

To,

The Director

Manipur Renewable Energy Development Agency (MANIREDA),

2nd Floor, South Block, Secured Office Complex, AT Line, Near Imphal Hotel,

Imphal-795001.

Price Schedule

Sl.	Item	Total Bid Quantity	Price in Rupees	
			Unit	Total Price
1	2	3	4	5 = 3 x 4
1.0	System Cost on Supply of W-LED Solar Home Light			
1.01	SPV Module (24Wp)	7078		
1.02	Control Electronics	7078		
1.03	Battery (12V 20 AH at C/20) Lead acid Tubular flooded	7078		
1.04	4no. W-LED Luminary(2.5Watts Max. each)	7078		
1.05	Balance of Systems (BOS)	7078		
	System Cost			
2.00	Transit Insurance	7078		
3.00	Transportation	7078		
3.01	Service Tax @3.625% on Transportation	7078		
4.00	Installation & Commissioning charge	7078		
4.01	Labour Cess @1% on Installation	7078		
4.02	Service Tax@15% on Installation	7078		
4.03	VAT @ 6% on Installation	7078		
5.00	MPWC (Maintenance & Performance Warranty	7078		
5.01	Labour Cess @1% on MPWC	7078		
5.02	Service Tax@15% on MPWC	7078		
6.00	Total (A)(1.01 to5.02)	7078		
6.01	Add 3% Contingency on Total (A) above	7078		
7.00	Total (B) (6.00+6.01)	7078		
7.01	Add Agency Charges @ 11.75% of Total (B)	7078		
8.00	Grand Total (C) (7.00+7.01)	7078		
	Total in words	Rupees only		

(DO NOT SUBMIT FINANCIAL BID IN PHYSICAL FORM, TO BE UPLOADED ONLINE ONLY)

Certified that rates quoted for SHLS are as per specifications, terms & conditions mentioned in the bid document

Yours faithfully,

(Signature of Authorized Signatory)

Name: Designation:

Company seal :

16. Check List & Format 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.	To be done
1	Annexure-I	Details of Earnest Money(D.D or B.G) from any nationalized bank and validity for at least 3months from the last date of submission of bids		Both uploading & hard copy
2	Annexure-II	A copy of the document/certificate that the bidder is Company/Firm/ Corporation registered in India, manufacturing SPV Cells/Modules/Luminaire (conforming to relevant National/International Standards)		Both uploading & hard copy
3	Annexure-III	A copy of the Certificate for solar module as per IEC/BIS Standards.		Both uploading & hard copy
4	Annexure-IV	Test Certificate conforming to MNRE approved specifications of the components of W-LED Solar Home Light like Luminary, Battery, Module, etc. from a MNRE authorised testing Centres/NABL accredited (Test Certificate conforming MNRE specification 2013-14 onwards)		Both uploading & hard copy
5	Annexure-V	A copy of valid CST/State VAT/TIN registration Certificate		Hard copy
6	Annexure-VI	A summarized sheet of cumulative experience of the bidder of Design, manufacture, supply, I&C of W-LED Solar Home Light whose work order should be in the name of the bidder.		Statement for uploading but details of work orders in hard copy
7	Annexure-VII	Overall Average Annual Turnover of the Company/Firm/Corporation in the last 3 financial years (A summarized sheet of turnover of last 3 Financial Years certified by registered CA)		Both uploading & hard copy
8	Annexure-VIII	MNRE accredited Channel Partner with Credit Rating(from MNRE Accredited Rating Agency)		Both uploading & hard copy
9	Annexure-IX	Copy of MoU signed for Pre-bid tie-up		Hard copy
10	Annexure-X	Demand Draft for cost of bid document/Photocopy of Demand Draft		Hard copy
11	Annexure-XI	Letter of acceptance to furnish the information in Proforma - 7, Proforma - 8, Proforma - 9,		hard copy
12	Annexure-XII	Photographs of MD or Two Directors (in case of Ltd. Company.)		Hard copy
13	Annexure-XIII	Technical Particular data sheet of SHLS of Bidder		Hard copy
14	Annexure-XIV	Copy of audited Balance Sheet and Profit & Loss Account for last 3 (three) years		Hard copy
15	Annexure-XV	Photographs of Registered Office & Factory attested by Gazetted Officer or Notary Public.		Hard copy
16	Annexure-XVI	A tentative overall supply schedule in the form of Bar Chart		Hard copy

17	Proforma – 1	Forwarding Letter		Both uploading & hard copy
18	Proforma – 2	Authority Letter for Attending Bid Opening Meeting and Signing of Bid Document.		Both uploading & hard copy
19	Proforma – 3	Information about the Bidding Firm		Both uploading & hard copy
20	Proforma – 4	Details of Orders Received and Executed in Past Years		Both uploading & hard copy
21	Proforma – 5	No Deviation Certificate		Hard copy
22	Proforma-10	Price Bid		Only Uploading

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.

17. Proforma-10
(On the Letter Head of the Firm)

PROFORMA OF APPLICATION FOR PAYMENT
--

Unit Reference:

Date:

Name of Contractor:	Contract No.:
Contract Name :	
Application Serial No. :	Contact Value :

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

Dear Sir,

APPLICATION FOR PAYMENT

Pursuant to the above referred Contract datedthe undersigned hereby applies for payment of the sum of(Specify amount and currency in which claim is made).

2.The above amount is on account of :[TICK whichever is applicable]

- Initial advance
 - Interim Payment as advance
 - Progressive payment against dispatch of equipment
 - Progressive payment against receipt of equipment at site
 - Progressive payment against Erection/installation & commissioning
 - Ocean freight & marine insurance
 - Inland transportation
 - Inland insurance
 - Price adjustment
 - Extra work not specified in Contract
(Ref. Contract Change order No.....)
 - Other (specify)
 - Final payment
- As detailed in the attached Schedule (S) which form an integral part of this application.

3.The payment claimed is as per item(s) No.(s)of the payment schedule annexed to the above – mentioned Contract.

4.The application consists of this page, a summary of claim statement and the following signed schedule

- i).....
- ii).....
- iii).....

The following documents are also enclosed

- a).....
- b).....
- c).....

Signature of Contractor/
Authorised Signatory.

18. Proforma-11

MATERIALS INSPECTION CLEARANCE CERTIFICATE (MICC)
--

- 1. Name of the Work:** Design, manufacture, supply, installation and commissioning of 7078 Nos. of W-LED Solar Home Lighting Systems including 5 years MPWC for handloom weavers in the state of Manipur.
- 2. Name of Worksite/Location:** Handloom weavers in the state of Manipur.
- 3. Name of the Firm/Contractor:** :
- 4. Work Order No.:** dated
- 5. Shipment No.:**.....
- 6. Date shipped:**.....,
- 7. Shipped From** **8. Shipped To** Imphal

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.	SPV Module							
2.	Luminaire							
3.	Control Electronics							
4.(a)	Storage battery							
(b)	Battery box							
5.	Luminaire							
6.	Cable							
7.(a)	Manual							
(b)	Others 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.

Date of received:

Signature of authorized MANIREDA representative

Name:

Designation: Field Assistant as Store Assistant

11. Inspected on:and jointly by MANIREDA officials and representative of M/sat store of MANIREDA/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

19. Proforma - 12

COMPLETION CERTIFICATE

- 1. Name of the Work:** Design, manufacture, supply, installation and commissioning of 7078 Nos. of W-LED Solar Home Lighting Systems including 5 years MPWC for handloom weavers in the state of Manipur.
- 2. Name of Worksite/Location:** Handloom weavers in the state of Manipur.
- 3. Name of the Firm/Contractor. :**
- 4. Work Order No.:** dated
- 5. Date of Completion of Installation:**.....
- 6. Date of Commissioning of the SHLS:**.....

SL. No.	Item Description	Qty.	Make	Product Serial No.	Remarks if any
1	2	3	4	5	9
1.	SPV Module				
2.	Luminaire				
3.	Control Electronics				
4.(a)	Storage battery				
(b)	Battery box				
5.	Luminaire				
6.	Cable				
7.(a)	Manual				
(b)	Others if any				

9. Enclosed documents: 3 copies of Completion Reports along with photographs of the system installed are hereby submitted to MANIREDA, both in hard and soft copies wherein details of equipment given in format above.

10. Signature of Beneficiary: Quantities shown in column 2 were received, installed and tested at the location intimated by us.

Date of received and installed:
Name:
Designation:

Signature of Scheme Officer, MANIREDA

11. Inspected on:and jointly by MANIREDA officials and representative of M/s
.....at the site and found okay.

12. For Contractor Use only: Endorsed and certified the above report on behalf of M/s.....
..... End of the Bid Document