

**Empanelment of Agencies for Rate Contract
for Household Electrification Works through
Solar Stand Alone Systems including Five
Year Comprehensive Maintenance Contract
(CMC) on Turnkey basis across the State of
Jharkhand.**

NIB Number: 11/JREDA/RE/SHS/20-21

JREDA
Government of Jharkhand



Jharkhand Renewable Energy Development Agency (JREDA)

3rd Floor, S.L.D.C. Building, Kusai Colony, Doranda, Ranchi-834002.

Ph.: 0651-2491161, Fax: 0651-2491165,

E-mail: info@jreda.com; Website: www.jreda.com

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Govt. of Jharkhand
Energy Department
Jharkhand Renewable Energy Development Agency
(JREDA)

3rd Floor, S.L.D.C. Building, Kusai Colony, Doranda, Ranchi-834002.

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e-Procurement Notice

Tender Reference No.: 11/JREDA/RE/SHS/20-21

Dated: 25.11.2020

1	Name of the work	Empanelment of Agencies for Rate Contract for Household Electrification Works through Solar Stand Alone Systems including Five Year Comprehensive Maintenance Contract (CMC) on Turnkey basis across the State of Jharkhand.
2	Total quantity (Nos.)	2253 Nos.
3	Estimated cost (Rs.)	8,27,30,160/-
4	Empanelment period	12 (Twelve) Months
5	Completion period	04 (Four) Months
6	Date of publication of NIT on website: http://jharkhandtenders.gov.in	28.11.2020 (Saturday)
7	Date & time of Pre-bid meeting	08.12.2020 (Tuesday) at 1.00 P.M.
8	Last date & time for receipt of online bids	21.12.2020 (Monday) upto 05:00 PM
9	Submission of original copies of Bid fee & EMD (Offline)	21.12.2020 and 22.12.2020 up to 5.00 P.M.
10	Technical Bid Opening Date	23.12.2020 (Wednesday) at 04:00 P.M.
11	Name & address of office inviting tender	Director, Jharkhand Renewable Energy Development Agency(JREDA) 3 rd Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002 (Jharkhand)
12	Contact no. of procurement officer	0651-2491163/67/61
13	Helpline no. of e-procurement	0651-2491163/67/61

Any corrigendum/addendum can be seen on website: <http://jharkhandtenders.gov.in> & www.jreda.com. Further details can be seen on website: <http://jharkhandtenders.gov.in> & www.jreda.com

Sd/-
Director,
JREDA, Ranchi

Section -1

NIB No: 11/JREDA/RE/SHS/20-21

List of Important dates & details of Bids

1.	Name of work	Empanelment of Agencies for Rate Contract for Household Electrification Works through Solar Stand Alone Systems including Five Year Comprehensive Maintenance Contract (CMC) on Turnkey basis across the State of Jharkhand.
2	Tender reference no.	11/JREDA/RE/SHS/20-21
3	Period of contract	12 (Twelve) Months
4	Completion period	04 (Four) Months
5	Mode of submission of tender	Online through www.jharkhandtenders.gov.in
6	Tentative Quantity	Solar Stand Alone Systems: 2253 Nos. The quantity mentioned above is tentative and subject to increase or decrease depending on the actual requirement at the time of placing order and resources available.
7	Maximum/Minimum lot size	Maximum: 1000 Nos. Minimum: 100 Nos. No bidder shall submit bid for quantity less than minimum lot size & more than maximum lot size.
8	Cost of Bid document (Non-refundable)	❖ Rs.10, 000/- (Rupees Ten Thousands only) for General Bidder. ❖ Rs. Nil for MSEs of Jharkhand.
9	Earnest Money Deposit (EMD)	For General Bidder: Rs. 73,440/- for the lot size of 100 Nos. of Solar Stand Alone Systems. The bidders quoting for higher quantities are required to submit EMD in the same proportion. For MSEs of Jharkhand: Nil.
10	Date of publication of NIT on website: http://jharkhandtenders.gov.in	28.11.2020 (Saturday)
11	Date & time of Pre-bid meeting	08.12.2020 (Tuesday) at 1.00 P.M.
12	Period of downloading of bidding documents	Start date: 04.12.2020 Time: 10.00 AM
		End date: 21.12.2020 Time: 05.00 PM
13	Bid online submission	Start date: 10.12.2020 Time: 10.00 AM
		End date: 21.12.2020 Time: 05.00 PM
14	Submission of original copies of Bid fee & EMD (Offline)	21.12.2020 and 22.12.2020 up to 5.00 P.M.
15	Technical bid opening date	23.12.2020 (Wednesday) at 04.00 P.M.
16	Authority inviting bids	Director, Jharkhand Renewable Energy Development Agency(JREDA)
17	Address	Jharkhand Renewable Energy Development Agency(JREDA) 3 rd Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002. Ph.No: 2491161,Fax No: 0651-2491165 Web site: www.jreda.com E-mail: info@jreda.com

Note: The **tender fee** and **Earnest Money Deposit (EMD) in original** must be submitted between all working days from **21.12.2020 and 22.12.2020 up to 5.00 P.M.** If **tender fee and EMD are not received before mentioned date and time, tender shall be considered invalid.**

Place for receiving tender fee & EMD

Jharkhand Renewable Energy Development Agency (JREDA), 3rd Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002.

Section-2

NIB No: 11/JREDA/RE/SHS/20-21

Instructions to Bidders

Detailed instructions & documents to be furnished for online bidding

1. The guidelines to submit bid online can be downloaded from website <http://Jharkhandtenders.gov.in>
 2. The interested bidders can download the bid from the website "<http://Jharkhandtenders.gov.in>".
 3. To participate in bidding process, bidders have to get 'Digital Signature Certificate (DSC)' as per Information Technology Act-2000 to participate in online bidding. This certificate will be required for digitally signing the bid. Bidders can get above mention digital signature certificate from any approved vendors (CCA). Bidders, who already possess valid Digital Certificates, need not to procure new Digital Certificate.
 4. The bidders have to submit their bids online in electronic format with digital Signature. The bids without digital signature will not be accepted. No proposal will be accepted in physical form.
 5. Bids will be opened online as per time schedule mentioned in section 1
 6. Bidders should get ready with the scanned copies of cost of documents & EMD as specified in the tender document. Before submission of online bids, bidders must ensure that scanned copy of all the necessary documents have been attached with bid.
 7. Bidder have to produce the original D.D. towards tender fee & EMD in approved form to the authority "Director, Jharkhand Renewable Energy Development Agency, Ranchi" on the date & time as mentioned in the NIT failing which bidder will be disqualified. The details of cost of documents, EMD specified in the tender documents should be the same as submitted online (scanned copies) otherwise tender will summarily be rejected.
 8. Uploaded documents of valid successful bidders will be verified with the original before signing the agreement. The valid successful bidder has to provide the originals to the concerned authority. The department will not be responsible for delay in online submission due to any reason.
 9. All the required information for bid must be filled and submitted online.
 10. Other details can be seen in the bidding documents.
- B. Details of documents to be furnished for online bidding:
11. **Scanned copies of the following documents to be up-loaded in pdf format on the website <http://Jharkhandtenders.gov.in>.**
 - i. D. D. towards Tender fee.
 - ii. Duly pledged EMD (Annexure).
 - iii. Latest GST certificate & GST Return.
 - iv. PAN Card.
 - v. Firm's Registration certificate.
 - vi. Certified copies of the annual returns with audited balance sheet and Income Tax Returns (ITR) submitted to the 'Registrar of Companies' (R.O.C.) of three years should be enclosed.
 - vii. Bidder should have Valid test Report from MNRE approved Labs of the offered system.

12. Scanned Copies of the Annexure as per the enclosed formats should be uploaded after converting the same to .pdf format.
 - i. Annexure-1: Covering letter.
 - ii. Annexure-2: Checklist for Technical Bid.
 - iii. Annexure-3: Information about the bidding firm
 - iv. Annexure-4: Declaration by the bidder.
 - v. Annexure-5: Average Annual Turnover certificate issued by CA.
 - vi. Annexure-6: Net-worth certificate issued by CA.
 - vii. Annexure-7: Format for power of attorney for signing of bid.
 - viii. Annexure-8: Details of Orders Received and Executed in Last 7 Years
13. **Duly filled in & digitally signed Price Bid.**
14. Uploaded documents of valid successful bidders will be verified with the original before signing the agreement. The valid successful bidder has to provide the originals to the concerned authority on receipt of such letter, which will be sent through registered post.

Section-3

NIB No: 11/JREDA/RE/SHS/20-21

Notice Inviting Bid

Sub: Empanelment of Agencies for Rate Contract for Household Electrification Works through Solar Stand Alone Systems including Five Year Comprehensive Maintenance Contract (CMC) on Turnkey basis across the State of Jharkhand.

Preamble:

As part of Rural Electrification Program, JREDA invites bid for **“Empanelment of Agencies for Rate Contract for Household Electrification Works through Solar Stand Alone Systems including Five Year Comprehensive Maintenance Contract (CMC) on Turnkey basis across the State of Jharkhand.”** for short listing of experienced & eligible Agency to whom work shall be allocated for successful execution of the project in a defined time frame.

(I) Minimum Eligibility Conditions:

- 1.** The bidder should be a registered manufacturing company/Firm/ Corporation in India (including MSEs of Jharkhand) manufacturing at least one of the three (Module, Battery, PV System electronics) components of the **Solar Stand Alone Systems. Authorized dealers companies/firms/ corporations and subcontractors are not eligible to participate.**
- 2.** The bidder should be a functional organization. To substantiate this claim, the bidder should submit the copy of Audited accounts for last 3 years along with Income Tax Return (ITR) complete set. These audited accounts should be duly certified by the Statutory Auditor with his stamp.
- 3.** “Micro & Small Enterprises (MSEs) of Jharkhand should be registered with the Directorate of Industries/District Industries Centre, Industrial Area Development Authority and National Small Industries Corporation Limited or any other body specified by Directorate of Industries, Jharkhand Govt. from time to time and other industrial units/enterprises which have submitted IEM and been issued Date of Production (DOP) certificate by GM, DIC/MD, Industrial Area Development Authority/Director, Industries, GoJ

or

MSEs having Udyog Aadhar Number issued by Ministry of Micro, Small and Medium Enterprises, GoI duly verified, whether unit is existing/functional and doing regular production at what capacity by GM, DIC/MD, Industrial Area Development Authorities/Director, Industries, GOJ”

1. **Turnover Requirement:**

For General Bidder: Bidder should have the minimum average Annual Turnover of **25% of Bid Capacity** derived from the last three financial years ending on 31.03.2019/20 on the basis of audited annual accounts.

For MSE of Jharkhand: *No minimum annual turnover required.* However, bidders have to submit average annual turnover of financial year ending on 31.03.2019/20 on the basis of audited annual accounts in prescribed format.

The certificate should be issued by CA who has performed audit of accounts with UDIN no. as per the Performa given at **Annexure-5**

2. **Net worth Requirement:**

For General Bidder: Bidder should have Positive Net Worth of minimum 10% of Bid Capacity as on 31.03.2019/20 on the basis of audited annual accounts.

For MSE of Jharkhand: Bidder should have Positive Net Worth as on 31.03.2019/20 on the basis of audited annual accounts or bank solvency certificate of 10% of Bid Capacity in case MSE is operational from less than 1 financial year from the date of issuance of this tender.

Net worth certificate should be issued by CA who has performed audit of accounts with UDIN no. as per the Performa given at **Annexure-6**

3. **Experience Requirement:**

For General Bidder: Bidder should have cumulative experience of executing contracts of supply of at least **25% of the quoted quantity of Solar Standalone Systems** to any SNA / Govt. Organization / PSU in the last seven years ending up to date of advertisement of this tender.

For MSEs of Jharkhand: *No work experience required.*

Note:-However, bidder should submit experience of executing contracts of supply of **Solar Standalone Systems** to any SNA / Govt. Organization / PSU in the last seven years ending up to date of advertisement of this tender.

The copies of work orders and corresponding performance certificate issued by procuring authorities indicating its successful execution and performance certificate must be enclosed as per the Annexure 8.

(II) Empanelment Procedure after opening of Financial Bid: The lowest rate i.e. L1 received would be the appropriate rate for awarding the work. The bidders shall be ranked as L1, L2, L3 and so on based on financial bids.

JREDA will allot the quantum of work to L1 bidder on the basis of quoted quantity by the bidder. If required, the remaining work will be offered to L2 bidder at L1 rate, and so on.

Allocation of the quantity to MSEs registered in Jharkhand will be made as per the provisions of Jharkhand Procurement Policy 2014. MSEs of Jharkhand should be functional & having running production unit in the State and should fulfill all the criteria as defined in Jharkhand Procurement Policy 2014.

Successful bidders shall be required to furnish at the time of Agreement, documentary evidence of the quantity of production of the self-manufactured component/s for the last three years.

To encourage the new MSEs of Jharkhand who remain unsuccessful at Technical bid stage due to non-fulfillment of experience criteria only, JREDA may consider allotting up to 500 Nos. from MSEs quota among one or more new units, who have fulfilled all the technical qualifying criteria but have no work experience in Solar Standalone systems and are functional since the last one financial years.

Test Reports to be submitted by the bidder:

1. Valid test Report of complete Solar Stand Alone System from MNRE/NABL approved Labs of the offered system.
2. **Module:** IEC 61215 Edition II /BIS 14286 from an NABL or IECQ accredited Laboratory (Attach relevant certificate).
3. **Battery:** The cell and battery should be got tested as per IEC62133-2012 or BIS specifications with MNRE/NABAL accredited center
4. **LED:**

White LED of NICHIA/OSRAM/SEOUL SEMICONDUCTOR/PHILIPS/LUMILEDS/LEDNIUM/LG Make or equivalent (**Having LM 80 test report**) shall only be use

and

Luminary should be tested as per **LM79-08** or latest standard by the MNRE/NABL accredited lab for such Standards and copy of such test certificate should be submitted. The test report should have the Polar curve of luminaire

Note: All the above test reports are mandatory for being technically eligible.

SECTION-4

NIB No: 11/JREDA/RE/SHS/20-21

INSTRUCTIONS TO BIDDERS
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Instructions to Bidders (ITB)

A. General

1. Scope of Bid

- 1.1. The JREDA invites bids for the work as described in these documents and referred to as "the work". The name and identification number of the works is provided in the Notice Inviting Bid.
- 1.2. The successful Bidder will be expected to complete the Works by the Intended Completion time specified in the General Conditions of Contract.
- 1.3. Throughout these documents, the terms "bid" and "tender" and their derivatives (bidder/ tenderer, bid/ tender, bidding/ tendering) are synonymous.

2. Source of Funds

- 2.1. The JREDA has decided to undertake the works of "**Empanelment of Agencies for Rate Contract for Household Electrification Works through Solar Stand Alone Systems including Five Year Comprehensive Maintenance Contract (CMC) on Turnkey basis across the State of Jharkhand.**" through funds from the Government of Jharkhand and Govt. of India to be implemented through JREDA.

3. Eligible Bidders

- 3.1 This Invitation for Bids is open to all bidders as defined in the Notice Inviting Bid.
- 3.2 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices /debarred/blacklisted by the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the works.

4. Qualification of the Bidder

- 4.1 All bidders shall provide in Section 3, Forms of Bid and Qualification information, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary.
- 4.2 All bidders shall include the following information and documents with their bids in Section 3, Qualification Information unless otherwise stated in the Notice Inviting Bid/ITB.
- 4.3 Copies of original documents defining the constitution or legal status, place of registration, and principal place of business.
- 4.4 Copy of written power of attorney of the signatory of the Bid to commit the Bidder.
- 4.5 Experience in works of a similar nature and size for each of the last seven years, and details of works in progress or contractually committed with certificates from the concerned officer or competent authority.
- 4.6 Reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the last three years.
- 4.7 Bids from joint venture are not allowed.

- 4.8 Bidder shall submit all the information required to be provided as per Annexures.
- 4.9 Even though the bidders meet the qualifying criteria of Section-3, they are subject to be disqualified if they have:
- i. made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or
 - ii. record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures
 - iii. Participated in the previous bidding for the same work and had quoted unreasonably high or low bid prices and could not furnish rational justification for it to JREDA.

5. One Bid per Bidder

- 5.1 Each Bidder shall submit only one Bid for one work. A Bidder who submits more than one Bid will cause the proposals with the Bidder's participation to be disqualified.

6. Cost of Bidding

- 6.1 The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the JREDA will, in no case, be responsible or liable for those costs.

B. Bidding Documents

7. Content of Bidding Documents

- 7.1 The set of bidding documents comprises the documents listed below and addenda issued in accordance with Clause 10 of ITB.
- a. Notice Inviting Tender
 - b. Instructions to Bidders
 - c. Qualification Information
 - d. Conditions of Contract
 - e. Bill of Quantities
 - f. Form of Bid
 - g. Form of Bank Guarantee.
- 7.2 The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms and specifications, bill of quantities, forms in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 21 hereof, bids, which are not substantially responsive to the requirements of the Bid Documents, shall be rejected.

8. Clarification of Bidding Documents and Pre-bid Meeting

- 8.1 A prospective Bidder requiring any clarification of the bidding documents may notify the JREDA in writing at the JREDA's address indicated in the Notice Inviting Tenders.
- 8.2 Pre-bid meeting will be held on **08.12.2020 (Tuesday)** at 1.00 P.M. in the Conference Hall of JREDA. The bidder or his authorized representative may attend the meeting.

- 8.3 The purpose of such a meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 8.4 The bidder is requested to submit any questions in writing so as to reach the JREDA not later than two days before the meeting.
- 8.5 Any modifications of the bidding documents listed in Clause 8.1 of ITB, which may become necessary as a result of the pre-bid meeting shall be made by the JREDA exclusively through the issue a Corrigendum/Addendum.
- 8.6 Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

9. Amendment of Bidding Documents

- 9.1 Before the deadline for submission of bids, JREDA may modify the bidding documents by issuing corrigendum/addendum.
- 9.2 To give prospective bidders reasonable time in which to take a corrigendum/addendum into account in preparing their bids, the JREDA shall extend, if necessary, the deadline for submission of bids, in accordance with Clause 17.2 of ITB.

C. Preparation of Bids

10. Language of Bid

- 10.1 All documents relating to the Bid shall be in the English language specified in the Notice Inviting Bid.

11. Documents Comprising the Bid

- 11.1 Technical Bid – (Fee/Pre-Qualification/Technical Cover)
 - i. EMD & Tender Fee
 - a. Scanned Copy of Demand draft drawn in favour of “DIRECTOR, JREDA”, payable at Ranchi towards Cost of Tender Fee and Earnest Money Deposit as specified in the Notice Inviting Bid. Bid fee and EMD to be submitted in original in the office of JREDA as per the instruction given in the Bid.
 - ii. Technical Details & Declaration
 - a. Proposed work programme (work method, time schedule and financial flow), description, and charts as necessary (Duly to be signed digitally) to comply with the requirement of the Bidding Document.
 - b. Scanned copy of an Affidavit by the Bidder that he/she has accepted the S.B.D.
 - iii. Valid test Report from MNRE approved Labs of the offered system
 - iv. Technical Details of documents
Scanned copies/Prescribed Formats of Documents to be attached in “My Document” in .pdf format file duly digitally signed by the bidder.
 - a. Income Tax clearance certificate/PAN Card
 - b. GST certificate.
 - c. Proof of completion of similar works during the last 5 years in the prescribed formats in the ITB duly signed by the competent authority of the issuing Department.

- d. Audited Financial Report for the last 3 years (unto 31/3/2019/20) certified by chartered Accountant with ITR.
- e. Annual Turn over Details certified by Chartered Accountant.
- f. Net-worth details certified by Chartered Accountant
- g. List of current litigant cases in which the bidder is involved.
- h. Authorized address & contact numbers of the bidder as per instruction in the Notice Inviting Bid duly digitally signed.
- i. Undertaking for validity of bid for 180 days.

11.2 Financial Bid – (Finance Cover)

- a. Duly Quoted & digitally signed Bill of Quantity (BoQ) in the file supplied by JREDA in .xls/.pdf format shall be uploaded.

NOTE:- All the documents should be digitally signed.

11.3 The following documents, which are not submitted with the bid, will be deemed to be part of the bid.

Section Particulars

- a. Notice inviting Tender
- b. Instruction to the bidders
- c. Conditions of Contract
- d. Contract Data

12. Bid Prices

- 12.1 The Contract shall be for the whole Works, as described in Clause 1.1 of ITB.
- 12.2 The Bidder shall adopt the Item Rate Method as specified in the Notice Inviting Bid only the same option is allowed to all the Bidders.
- 12.3 All duties, taxes, royalties and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates, prices, and total Bid price submitted by the Bidder.
- 12.4 The rates and prices quoted by the Bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment.
- 12.5 Tenderers should quote their rates considering wide variation of site conditions, variation in price of different components during the year 2020-21 and keeping the quantum and quality of work in mind. If JREDA anticipates that rate is abnormally low or high, tender may be cancelled.

12.6 Price bids submitted by New MSEs shall not be considered. However, to complete the tender process those MSEs have to submit price bids. They have to accept the L1 rate derived in tender for award of work.

13. Currencies of Bid

- 13.1 The unit rates and the prices shall be quoted by the bidder entirely in Indian Rupees (INR).

14. Bid Validity

- 14.1 Bids shall remain valid for a period of 180 (One Hundred Eighty) days after the deadline date for bid submission specified in Clause 19 of ITB. A bid valid for a shorter period shall be rejected by the JREDA as non-responsive.

15. Earnest Money

- 15.1 The Bidder shall furnish, as part of the Bid, Earnest Money, in the amount specified in the Notice Inviting Bid.
- 15.2 The Earnest Money shall, at the Bidder's option, be in the form of Bank Guarantee/Demand Draft of a scheduled commercial bank, issued in favour of the name given in the Notice Inviting Bid. The Bank Guarantee shall be valid for 12 months or more after the last date of receipt of bids. Other forms of Earnest Money acceptable to the JREDA are stated in the Notice Inviting Bid.
- 15.3 Any bid not accompanied by an acceptable Earnest Money, unless exempted in terms given in the Notice Inviting Bid, shall be rejected by the JREDA as nonresponsive.
- 15.4 The Earnest Money of unsuccessful bidders will be returned within 30 days of finalization of the tender.
- 15.5 The Earnest Money of the successful Bidder will be discharged when the Bidder has signed the Agreement and furnished the required Security Deposit.
- 15.6 The Earnest Money may be forfeited:
- a. if the Bidder withdraws the Bid after bid opening (technical bid) during the period of Bid validity;
 - b. in the case of a successful Bidder, if the Bidder fails within the specified time limit to
 - i. sign the Agreement; and/or
 - ii. Furnish the required Security Deposit.

16. Sealing and Marking of Bids

- 16.1 The Bidder shall place the file marked "Technical Bid". The file will have markings as follows:
Technical Bid: To be opened on (date and time of Technical Bid opening as per clause 18.1 of ITB.)
The Technical bid file shall only contain Original of DD towards payment of bid fee and DD or BG towards payment of EMD.
- 16.2 The file containing the Technical Bid shall
- a) be addressed to the JREDA at the address provided in the Notice Inviting Bid
 - b) bear the name and identification number of the Contract as defined in clause 1.1 of ITB; and
 - c) provide a warning not to open before the specified time and date for Bid opening as defined in clause 18.1 of ITB.

D. Submission of Bids

17. Deadline for Submission of Bids

- 17.1 Complete Bids (including Technical and Financial) must be received by the JREDA at the address specified in the Notice Inviting Bid not later than the date and time indicated in the Notice Inviting Bid.
- 17.2 The JREDA may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 8.3 of ITB, in which case all rights and obligations of the JREDA and the bidders previously subject to the original deadline will then be subject to the new deadline.

E. Bid Opening and Evaluation

18. Bid Opening

- 18.1 The JREDA will open the bids received (except those received late). In the event of the specified date for the submission of bids being declared a holiday for JREDA, the Bids will be opened at the appointed time and location on the next working day.
- 18.2 The files containing the technical bid shall be opened. The document marked "cost of bidding document" will be opened first and if the cost of the bidding documents is not there, or incomplete, the remaining bid documents will not be opened, and bid will be rejected.
- 18.3 In all other cases, the amount of Earnest Money, forms and validity shall be announced. Thereafter, the bidders' names and such other details as the JREDA may consider appropriate, will be announced by the JREDA at the opening.
- 18.4 The JREDA will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Clause 18.3 of ITB.
- 18.5 Evaluation of the technical bids with respect to bid security, qualification information and other information furnished in Part-I of the bid in pursuant to Clause 12.1 of ITB, shall be taken up and completed and a list will be drawn up of the responsive bids whose financial bids are eligible for consideration.
- 18.6 The JREDA shall inform, by email, the bidders, whose technical bids are found responsive, date, time and place of opening as stated in the Notice Inviting Bid. In the event of the specified date being declared a holiday for the JREDA, the bids will be opened at the appointed time and location on the next working day through they or their representative, may attend the meeting of opening of financial bids.
- 18.7 At the time of the opening of the 'Financial Bid', the names of the bidders whose bids were found responsive in accordance with clause 18.5 of ITB will be announced. The financial bids of only these bidders will be opened. The remaining bids will be returned unopened to the bidders. The responsive bidders' names, the Bid prices, the total amount of each bid, and such other details as the JREDA may consider appropriate will be announced by the JREDA at the time of bid opening. Any Bid price which is not read out and recorded, will not be taken into account in Bid Evaluation
- 18.8 The JREDA shall prepare the minutes of the opening of the Financial Bids.

19. Process to be Confidential

- 19.1 Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any attempt by a Bidder to influence the JREDA's processing of bids or award decisions may result in the rejection of his Bid.

20. Clarification of Bids and Contacting the JREDA

- 20.1 No Bidder shall contact the JREDA on any matter relating to its bid from the time of the bid opening to the time the contract is awarded.
- 20.2 Any attempt by the bidder to influence the JREDA's bid evaluation, by any means, bid evaluation, bid comparison or contract award decision may result in the rejection of his bid.

21. Examination of Bids and Determination of Responsiveness

- 21.1 During the detailed evaluation of "Technical Bids", the JREDA will determine whether each Bid
- (a) Meets the eligibility criteria defined in Clauses 3 and 4;
 - (b) has been properly signed;
 - (c) is accompanied by the required securities; and
 - (d) is substantially responsive to the requirements of the bidding documents. During the detailed evaluation of the "Financial Bids", the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e. Backend, Integration & Databases Services, Report and feedback services.
- 21.2 The "Financial bids" of only those bidders(for general bidders only) shall be opened, who qualify all the criteria of "Minimum Eligibility Conditions".
- 21.3 A substantially responsive "Financial Bid" is one, which conforms to all the terms, conditions, and specifications of the bidding documents, without deviation as per requirement of NIB. A deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the Works; (b) which limits in any substantial way, inconsistent with the bidding documents, the JREDA's rights or the Bidder's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.
- 21.4 If a "Financial Bid" is not substantially responsive, it will be rejected by the JREDA, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

22. Corrections of Errors

- 22.1 Bids determined to be substantially responsive, will be checked by the JREDA for any arithmetic errors. Errors will be corrected by the JREDA as follows:
- a. where there is a discrepancy between the rates in figures and in words, the rate in words will govern; and

- b. Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.
- 22.2 The amount stated in the Bid will be adjusted by the JREDA in accordance with the above procedure for the correction of errors and shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid will be rejected, and the Earnest money shall be forfeited in accordance with Clause 15.6(b) of ITB.

23. Evaluation and Comparison of Bids

- 23.1 The JREDA will evaluate and compare only the bids determined to be substantially responsive in accordance with Clause 23 of ITB.
- 23.2 In evaluating the bids, the JREDA will determine for each Bid the evaluated Bid price by adjusting the Bid price by making correction, if any, for errors pursuant to Clause 22 of ITB.
- 23.3 If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer's estimate of the cost of work to be performed under the contract, the JREDA may require the Bidder to produce detailed price analysis for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the JREDA may require that the amount of the Security deposit set forth in Clause 28 of ITB be increased at the expense of the successful Bidder to a level sufficient to protect the JREDA against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased Security deposit shall be decided at the sole discretion of the Employer, which shall be final, binding and conclusive on the bidder.
- 23.4 After its evaluation, the JREDA may require that the amount of the Security deposit set forth in Clause 28 be increased at the expense of the successful Bidder to a level sufficient to protect the JREDA against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased Security deposit shall be decided at the sole discretion of the JREDA, which shall be final, binding and conclusive on the bidder.

24. Price Preference

- 24.1 There will be no price preference to any bidder.

F. Award of Contract

25. Award Criteria

- 25.1 Subject to Clause 21 of ITB, the JREDA will award the Contract to the Bidder whose Bid has been determined to be substantially responsive to the bidding documents and who has offered the lowest evaluated Bid price, provided that such Bidder has been determined to be (a) eligible in accordance with the provisions of Clause 3 of ITB, and (b) qualified in accordance with the provisions of Clause 4 of ITB; and as per clause 14 of Notice Inviting Bid (Section-3).

26. JREDA's Right to accept any Bid and to reject any or all Bids

- 26.1 Notwithstanding Clause 25 above, the JREDA reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the JREDA's action without any reason.

27. Notification of Award and Signing of Agreement

- 27.1 The bidder whose Bid has been accepted will be notified of the award by the JREDA prior to expiration of the Bid validity period by cable, email, telex or facsimile confirmed by registered letter. This letter (hereinafter and in the Part I - General Conditions of Contract called the "Letter of Acceptance") will state the sum that the JREDA will pay to the Contractor in consideration of the execution and completion of the Works (hereinafter and in the Contract called the "Contract Price").
- 27.2 The notification of award will constitute the formation of the Contract, subject only to the furnishing of a Security deposit in accordance with the provisions of Clause 30.
- 27.3 The Agreement will incorporate all agreements between the JREDA and the successful Bidder. It will be signed by the JREDA and the successful Bidder after the Security deposits are furnished.
- 27.4 Upon the furnishing by the successful Bidder of the Security deposit, the JREDA will promptly notify the other Bidders that their Bids have been unsuccessful.

28. Security Deposit:

- 28.1 Successful General bidder shall submit a security deposit @10% of the allotted work order value in the form of Bank Guarantee valid for one year on or before 15 days from issuing work order. If Bank Guarantee will not be submitted within stipulated period from the date of issue of work order then JREDA shall cancel the work order.
- 28.2 Successful MSE bidders shall be required to deposit only 10% of security deposit (General Bidder) i.e. @1% of the allotted work order value in the form of Bank Guarantee valid for one year as per Jharkhand Procurement Policy.
- 28.3 The Security Deposit shall be refunded / released to the bidder after expiry of 60 days from the actual date of successful completion of work.
- 28.4 The Security Deposit will have to be maintained by the bidder with JREDA till the satisfactory completion of the work. If the work extends beyond the expiry date of Bank Guarantee, bidders shall submit fresh or extend the period of validity of Bank Guarantee as per the direction of JREDA, otherwise JREDA may terminate the work order and blacklist the contractor.

29. Performance Guarantee:

- 29.1 Successful General bidder shall submit a performance guarantee @5% of the allotted work order value in the form of Bank Guarantee valid for five years on or before release of Payment against Installation.

- 29.2 Successful MSE bidders shall submit a Performance Guarantee @2.5% of the allotted work order value in the form of bank guarantee before release of payment against Installation.
- 29.3 The Performance Guarantee will have to be maintained by the bidder with JREDA till the completion of warrantee period.
- 29.4 The Security Deposit/Performance Guarantee shall be submitted in the form of bank guarantee in favour of "Director, JREDA" payable at Ranchi from any Indian Nationalized bank/Scheduled bank.
- 29.5 Non submission of Security Deposit/Performance Guarantee within the time frame, shall lead to forfeiture of EMD and cancellation of work order.
- 29.6 If Bidder/MSE unit fails to carry out the work allotted to him as per the provisions of the tender documents then such Bidder/MSE unit may be black listed for future awards of work.

30. Liquidated damages for delay in completion of Work:

If the Successful Bidder fails to complete the Work within the period specified in the Agreement or any extension granted thereto under force majeure conditions, JREDA will recover from the Successful Bidder as penalty @ 0.5% at the contract price for each week of delay. The total penalty shall not exceed 10% (ten percent) of the contract price. Beyond 10 weeks of delay, JREDA may:

- a) Allow Successful Bidder to continue Work; OR
- b) JREDA may terminate the Contract with Successful Bidder and get Work completed by other party at risk and cost of Successful Bidder.

In either of the cases above, JREDA would recover the loss of subsidy from the Successful Bidder. This recovery shall be in addition to penalty for delay for 10 weeks.

31. Insurance:

The contractor shall arrange for transit and erection insurance of the material and equipment's upto the commissioning of the project as well as insurance of the material and equipment's upto 5 Years from the date of commissioning of the project. In case of any theft or damage of equipment during the entire period ie. Pre commissioning and 5 years post commissioning, the same will be responsibility of the contractor.

32. Corrupt or Fraudulent Practices

The JREDA requires the bidders/Contractors to strictly observe the laws against fraud and corruption in force in India, namely, Prevention of Corruption Act, 1988.

Section-5

General Terms & Conditions

NIB No: 11/JREDA/RE/SHS/20-21

1. Introduction:

The instruction/information contained in the bid documents are for guidance and compliance of the intending bidder. Bidders are advised to obtain clarification from JREDA, if any, prior to submission of their bid, failing which it will be deemed that the stipulation made in the bid documents have been read, understood and are acceptable to the bidder.

Bidder shall bear all costs associated with the preparation and submission of the bid, journeys undertaken by them and subsequent bidding process till the award of the order to successful bidder and the JREDA shall in no case, shall be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

2. Scope of work:

- a) Design, supply, installation, commissioning and operation & maintenance, for 5 years of SPV Power Packs (Solar Standalone System), all associated civil works etc. in various villages of Jharkhand on turnkey basis as per details given therein.
- b) Operation & maintenance of system for five years as amended/ replaced/ sub-assumed as mentioned in the tender document.

3. Bid documents:

Tender documents shall comprise of all the documents mentioned in this Bid. In addition to these any other documents/amendments/revisions or instructions issued by JREDA from time to time to bidders till due date of opening of the offers, shall also be deemed to be integral part of the bid document.

4. Price:

The bidder shall quote his price as per schedule of items of work. The contract price rates shall be firm and binding and shall not be subject to any variation except for statutory variation of taxes and duties during the contractual completion period. ***The price shall be inclusive of all taxes, duties and levies etc. as on the opening date of tender.*** The price shall also include designing, manufacturing, inspection, supply, transport, insurance, handling etc. All applicable charges for taking necessary clearance such as commercial tax, road permit etc. wherever required are also deemed to be included in the contract price.

5. Dispatch Instructions:

All items/equipments shall be subject to **Pre-Dispatch Inspection (PDI)** by JREDA or its authorized representatives at the manufacturing site before their dispatch. The sample size for **PDI** shall be in accordance with BIS norms or @ 2% of the quantity offered, whichever is lesser.

The manufacturing site must have sufficient testing facilities conforming to NABL facility. The manufacturer will submit test report with regard conformity to technical specifications for the items to be dispatched to work site of JREDA. However, equipments will be dispatched from the manufacturing site only after the receipt of "Dispatch Clearance" from JREDA after acceptance of test report.

Randomly selected Sample/s from each lot offered for PDI, shall be sent to MNRE approved or NABL accredited lab for verification of Specifications and Performance of the System. The cost of such tests shall be borne by JREDA.

No consignment shall be dispatched without the receipt of dispatch clearance from JREDA. No PDI shall be done at any site other than the concerned manufacturing site. Successful bidders have to arrange necessary equipments conforming to NABL facility for testing the materials to be supplied during the pre-dispatch inspection by JREDA at their manufacturers unit. Failure to fulfill the PDI conditions shall lead to cancellation of work order and forfeiture of security deposit.

The items which are being procured through this bid have to be distributed/installed on the basis of demand to be received by JREDA. Therefore, JREDA does not take responsibility that it will procure 100% quantity as has been indicated in the bid. Further, as JREDA will receive the demand, the supply order shall be placed to the successful bidder for execution in due time.

After finalization of the tender JREDA authority will take decision for issuing work order for the work under scope to the successful bidder; and thereafter on the basis of demands received in the JREDA office, request for supply/ installation will be communicated. Then within 45 days the supplier will have to ensure pre dispatch inspection from JREDA and within next 15 days JREDA will issue Dispatch instruction. Accordingly the work of supply & installation will be completed by the vendor within 60 days period from the date of issue of dispatch instruction. The bidders shall have no claim regarding economy of scale, choice of district/s or choice of region in the state, for the purpose of transportation of items/materials to the demand/work sites.

6. Timeline/ Completion Period:

The timeline for incorporation of all the requirements as per the clauses of scope of work shall be 4 months from the date of issuance of demand note and shall be in line with the following table:

Sl. No	Activity/Deliverables	Timelines
1	Issuance of Letter of Award (LoA) to the contractor	X Days
2	Signing of Agreement between JREDA & Contractor	X+ 15 Days
3	Call for Pre Dispatch Instruction	X+ 45 Days
4	Issuance of Dispatch Instruction by JREDA	X+60 Days
5	Delivery of Material on Site	X+90 Days
6	Testing and commissioning over the project	X+120 Days

7. Payment terms and conditions:

Subject to any deduction which JREDA may be authorized to make under this contract, the contractor shall be entitled to payment as follows:

- (a) **60%** of the Contract Price shall be paid against supply and delivery of goods in full and in good condition as certified by Consignee & JREDA Officials after submission of following documents:
 - i. Original Commercial invoice raised from the state of Jharkhand for the supply made in triplicate (1+2).
 - ii. Copy of duly raised delivery challan / transportation challan /lorry receipt.
 - iii. Duly filled **Annexure-12** should be submitted in three sets (one for Consignee record, one for JREDA Hq. and one for JREDA's field Executive Engineer).
 - iv. Geo-tagged Photographs of materials at Site.
- (b) **30%** of the Contract Price shall be paid against Installation, Testing & Commissioning after submission of following documents:
 - i) Copy of Original Commercial invoice raised at the time of supply in triplicate (1+2).
 - ii) Duly filled **Annexure-13**.
 - iii) Certificate for minimum seven days of satisfactory performance with geo-tagged photographs of the each installed Solar Standalone system with GPS Co-ordinates in Soft copy (CD).
- (c) Rest **10%** of the Contract Price shall be paid @**2%** of the Contract Price on completion of every one year period of the 5 year CMC period, after submission of following documents:
 - i) Copy of Original Commercial invoice raised at the time of supply in triplicate (1+2).
 - ii) Submission of quarterly reports of CMC undertaken by the manufacturer **as per Annexure-14**.

The payment for the items to be procured/installed will be released on receipt of the corresponding share as has been provided in the approved scheme of JREDA either from MNRE, Govt. of Jharkhand, beneficiary or other concerned.

8. Agreement:

The successful qualified bidders shall have to enter into an agreement in the office of the Director, JREDA, in prescribed format before commencement of the service.

9. Income Tax :

Without prejudice to the obligations of the contractor under law, any income tax which JREDA may be required to deduct by law/statute, shall be deducted at source and shall be paid to

income tax authorities on account of the contractor. JREDA shall provide the contractor a certificate for such deductions of tax.

10. Other responsibility of Successful Bidder: Notwithstanding anything mentioned in the specifications or subsequent approval or acceptance of the standalone system by JREDA, if at all, the ultimate responsibility for satisfactory performance of the entrusted Work shall rest with the Successful Bidder.

11. Cancellation of Work Order:

JREDA will be at liberty to terminate/blacklist in part or full the awarded contract without prejudicing its rights and affecting the obligations of the Contractor by giving 15 (Fifteen) days' notice in writing in the following events:

- (a) If the contractor/supplier is found defaulter for delays in supply of services to JREDA as per the Scope of Work.
- (b) If the contractor/supplier fails to comply with the provision(s) of the contract including the responsibilities to fulfill the 5 years CMC as per the provisions mentioned.
- (c) If the Contractor/vendor is involved in any action of moral turpitude.
- (d) If at any time, during the tendering process or after award of work, any of the documents/informations submitted by the bidder is found to be incorrect, false or untruthful, the bid and/ or the resultant order may be summarily rejected/cancelled at the risk of the bidder and EMD/SD will be forfeit and bidder will blacklisted.

12. Jurisdiction of the Court:

All disputes would be settled within Ranchi jurisdiction of court of law only.

13. Confidentiality

The contractor shall maintain utmost confidentiality of information supplied method of operation, procedure etc. and shall not make or allow to make an unauthorized copy, use, access or other utilization of these materials commercially or otherwise, directly or indirectly except as agreed to by JREDA.

This confidentiality will be maintained by the contractor for a period of two years from the date of service level agreement. The bidder shall follow the standard information systems of security policies and Govt. of India guidelines.

Section-6: Technical Specification

NIB No: 11/JREDA/RE/SHS/20-21

WHITE LED (W-LED) BASED SOLAR BASED HOME SYSTEMS (SOLAR POWER PACKS)

A solar home system (SHS) provides a comfortable level of illumination in one or more rooms of a house. The SHS consists of a PV module. Control electronics, battery, and luminaire(s). The Systems featuring 5 numbers of luminaires based on White Light emitting Diode (W-LED) and could be used to run a small DC fan and / or a 12-V DC television with mobile charging.

The System consists of:

S.No	Item/System	Specification								
1	SPV Module (with Module Mounting Structure)	200 Wp								
2	Battery	<p>12.8 Volts, 80 Ahr. (approx. 1000 Watt hours) Lithium Ferro phosphate. A very good battery management system to be incorporated and got it tested with battery from MNRE/NABAL/IEC accredited lab as per IEC/BIS standard. IEC 62133 , IEC 61960 & UL 1642 : SAFETY OF LIFEPO4 BATTERY</p>								
3	Solar DC Charge Controller	<p>Solar Charge Controller with MPPT to appropriately charge and protect the battery against overcharge. Charge Controller should have following Protection:</p> <ul style="list-style-type: none"> • Transient/Surge. • Over Charging/Deep Charging. • Solar and battery reserve Protection. • Reverse current from battery at night. • Overload-Auto Shutdown and Restart: <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th>Description</th> <th>12.8 V Operation</th> </tr> </thead> <tbody> <tr> <td>Higher Vol. Cut-off Setting</td> <td>14.6 V</td> </tr> <tr> <td>Battery Low Load Disconnect</td> <td>11.5 V</td> </tr> <tr> <td>Load Reconnect</td> <td>12.6 V</td> </tr> </tbody> </table>	Description	12.8 V Operation	Higher Vol. Cut-off Setting	14.6 V	Battery Low Load Disconnect	11.5 V	Load Reconnect	12.6 V
Description	12.8 V Operation									
Higher Vol. Cut-off Setting	14.6 V									
Battery Low Load Disconnect	11.5 V									
Load Reconnect	12.6 V									
4	Load	<ul style="list-style-type: none"> ○ 5 Nos. of White Light Emitting Diode (W-LED) Luminaire (7.0 Watts each) for 5-6 Hrs./day <p style="text-align: center;">and</p> <ul style="list-style-type: none"> ○ 1 D.C. Pedestal Fan(20Watts) for 5-6 Hrs./day ○ Provision for Mobile Phone Charging. ○ Power for a 12V DC TV (max. 25 watts) set, to be purchased separately(Optional) for 5-6 hrs./day 								

TECHNICAL DETAILS

PV MODULE(S)

- i. Indigenously manufactured PV modules should be used
- ii. The PV modules 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 capacity should be minimum 200 Wp Multi/Mono Crystalline/MNRE approved solar modules having 24 V nominal voltage with 48 full cells with minimum 15% Module Efficiency.
- iv. The terminal box on the module should have a provision for opening, for replacing the cable, if required.
- v. 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 manufacture
- vi. A distinctive serial number starting with NSM will be engraved on the frame of the module or screen printed on the tedlar sheet of the module.
- vii. PV module must be warranted for output wattage, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years.

BATTERY

- i. Lithium Ferro phosphate type battery only.
- ii. Capacity approx. 1000 Watt Hour
- iii. Maximum Depth of Discharge 90%
- iv. Battery should conform to the latest BIS/International standards.
- v. The cell and battery should be got tested as per IEC62133-2012 or BIS specifications with MNRE/NABAL accredited center
- vi. Cycle life: more than 2000 cycles

LIGHT SOURCE

- i. Two light sources shall be with 7.0 Watts of white LED and Light Output should be Minimum 25 Lux when measured at the periphery of 2.5 meter diameter from a height of 2.5 meter
- ii. At any point within area of 2.5mtr diameter periphery the light level should not be more than three times of the periphery value.
- iii. The illumination should be uniform without Dark Bands or abrupt variations and soothing to the eyes. Higher output would be preferred.
- iv. The colour temperature of W-LEDs used in the system should be in the range of 5500 °K-6500°K.
- v. LEDs should not emit ultraviolet light.
- vi. The light output from the W-LED light source should be constant throughout the duty cycle.
- vii. The lamps should be housed in an assembly suitable for indoor use.
- viii. white LED of NICHIA/OSRAM/SEOUL SEMICONDUCTOR/PHILIPS/LUMILEDS/LEDNIUM/LG Make or equivalent (Having LM 80 test report) shall only be use
- ix. The LEDs luminaire should have life time about 50,000 hrs as per IESNA latest standard.
- x. The lumen depreciation of LED luminaire shall not be more than 30% at 50,000 burning hours as per IESNA latest edition.
- xi. The Luminary should be tested as per LM79-08 or latest standard by the MNRE/NABL accredited lab for such Standards and copy of such test certificate should be submitted. The test report should have the Polar curve of luminaire

ELECTRONICS

- i. The total electronic efficiency should be at least 85%.

- ii. Electronics should have temperature compensation for proper charging of the battery throughout the year.
- iii. The idle current should be less than 20 mA.
- iv. The voltage drop from module terminals to the battery terminals should not exceed 0.6 volts including the drop across the diode and the cable when measured at maximum charging current.
- v. The PCB containing the electronics should be capable of solder free installation and replacement.
- vi. Necessary lengths of wires/cables, switches suitable for DC use and fuses should be provided.

ELECTRONIC PROTECTIONS

- i. Adequate protection is to be incorporated under "No Load" condition.
- 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.

MECHANICAL COMPONENTS

- i. Corrosion resistant 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 metallic box of minimum 18 SWG thick made of pre coated galvanized (60 micron thickness) ms sheet for housing the storage battery indoors should be provided
- v. The size of box should be as per battery size. The battery should be fixed inside the battery box so it should be properly separated to avoid the electrical contact between battery and box.
- vi. The Box should have separate compartment for BMS with IP65.
- vii. Signboard of JREDA should be installed in each village covered under the scheme.
- viii. Specification of board:
 - Iron Sheet: MS Sheet 14 gauge (1.6mm thickness)
 - Size of Iron Sheet: 3Feet x 4Feet (Length x Breadth)
 - Height of board from ground level: 5 feet
 - Support L type angle: 3"x3", 6 mm thickness
 - Sample copy of signboard material will be provided later

Pedestal FAN

The fan should be 12 volt DC operated with following minimum requirement:

- i. Type of motor: BLDC
- ii. Rated voltage: 12 Volt
- iii. Sweep size : 300 mm (diameter) (minimum).
- iv. Blade: Three leaves Alluminium Powder Coated
- v. Power: 20 Watt (+ 5% including instrumental errors)
- vi. Air delivery: > 150 CMM (cubic meter per minute)
- vii. RPM: >1100
- viii. Speed: 3 electronically controlled.
- ix. Operating Voltage range: 10.8 Volt to 14.4 Volt.

Annexure-1

Format for Covering Letter

NIB No: 11/JREDA/RE/SHS/20-21

(To be submitted in the official letter head of the company)

To,

The Director,
Jharkhand Renewable Energy Development Agency
3rd Floor, S.L.D.C. Building,
Kusai Colony, Doranda,
Ranchi - 834002.

Sub: Empanelment of Agencies for Rate Contract for Household Electrification Works through Solar Stand Alone Systems including Five Year Comprehensive Maintenance Contract (CMC) on Turnkey basis across the State of Jharkhand.

Sir,

We are hereby submitting our offer in full compliance with the terms and condition of the above NIB No. We have submitted the requisite amount of "Earnest Money" in the form of Bank Guarantee/Demand Draft, valid for twelve months and Bid fee.

The tender is uploaded on www.jharkhandtenders.gov.in as per the requirement of the website separately Technical Bid & Financial Bid.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Annexure-2

Check List for Technical bid

NIB No: 11/JREDA/RE/SHS/20-21

S. No.	Particulars	Uploaded Yes / No	Page No.
1	Covering Letter as per Annexure-1 .		
2	Information about the Bidder as per Annexure-3 .		
3	Declaration by Bidder as per Annexure-4 .		
4	Average Annual Turnover for last three years ending 31.03.2019/20 (Attach average annual turnover certificate as per Annexure-5)		
5	Net worth as on 31.03.2019/2020. (Attach proof & Net worth certificate as per Annexure-6)		
6	Authority Letter for Signing Bid Document & Attending Bid Opening Meeting as per Annexure-7		
7	The proof of related work in any PSU/Govt. organization in the last five years as per NIB in Annexure-8 . Attach copy of the order/work completion and certificate indicating its successful execution.		
8	To indicate the functionality of the firm attach the balance sheet of last three years ending 31.03.2019/2020 of the firm duly certified by statutory Auditor.		
9	A copy of valid GST registration certificate		
10	A copy of valid test Report from MNRE/NABL approved Labs of the offered system		
11	Details of tender document fee (Bank Draft No. and Date)		
12	Details of Earnest money Deposit (Bank Guarantee/DD Number & Date)		

** Please number the pages of the uploaded documents and write it in the box.*

Please ensure:

- i) That all information is provided strictly in the order mentioned in the check list mentioned above.
- ii) Bidders are advised to strictly confirm compliance to bid conditions and not to stipulate any deviation/conditions in their offer. Subsequent to bid submission, JREDA may or may not seek confirmations/clarifications and any offer(s) not in line with Bid conditions shall be liable for rejection.
- iii) Any clarification/confirmation bidder may require shall be obtained from JREDA before submission of the bid. 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.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Annexure-3

Format for Information about the Bidder

NIB No: 11/JREDA/RE/SHS/20-21

Empanelment of Agencies for Rate Contract for Household Electrification Works through Solar Stand Alone Systems including Five Year Comprehensive Maintenance Contract (CMC) on Turnkey basis across the State of Jharkhand.

Name of the Agency /Firm	Address and other details of the Agency/Firm
Website Address (if any)	
Phone Numbers Fax Numbers	
E-mail	
Contact person's Name	
Contact Person's Mobile Number	
Contract Person's Fax Number	
Contract Person's email ID	

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Annexure-4

Declaration by the Bidder

NIB No: 11/JREDA/RE/SHS/20-21

(To be submitted in the official letter head of the company)

I/We _____ (here in after referred to as the Bidder) being desirous of tendering for the rate contract for work under the above mentioned tender and having fully understood the nature of the work and having carefully noted all the terms and conditions, specifications etc. as mentioned in the tender document, DO HEREBY DECLARE THAT

1. The Bidder is fully aware of all the requirements of the tender document and agrees with all provisions of the tender document.
2. The Bidder is capable of executing and completing the work as required in the tender.
3. The Bidder accepts all risks and responsibilities directly or indirectly connected with the performance of the tender.
4. The Bidder has no collusion with any employee of JREDA or with any other person or firm in the preparation of the bid.
5. The Bidder has not been influenced by any statement or promises of JREDA or any of its employees, but only by the tender document.
6. The Bidder is financially solvent and sound to execute the work.
7. The Bidder is sufficiently experienced and competent to perform the contract to the satisfaction of JREDA.
8. The information and the statements submitted with the tender are true.
9. The Bidder is familiar with all general and special laws, acts, ordinances, rules and regulations of the Municipal, District, State and Central Government that may affect the work, its performance or personnel employed therein.
10. The Bidder has not been debarred from similar type of work by any Government Dept. /PSU.
11. The Bidder gives the assurance to execute the tendered work as per specifications terms and conditions.
12. The Bidder accepts that the earnest money be absolutely forfeited by JREDA if the Bidder fails to undertake the work or sign the contract within the stipulated period.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Annexure-5

Format For Financial Requirement – Annual Turnover

NIB No: 11/JREDA/RE/SHS/20-21

[On the letterhead of Bidding Company]

To,

The Director,
Jharkhand Renewable Energy Development Agency
3rd Floor, S.L.D.C. Building,
Kusai Colony, Doranda,
Ranchi - 834002

Dear Sir,

Sub: Empanelment of Agencies for Rate Contract for Household Electrification Works through Solar Stand Alone Systems including Five Year Comprehensive Maintenance Contract (CMC) on Turnkey basis across the State of Jharkhand.

We certify that the Bidding Company had an average Annual Turnover of Rs. -----
----- based on audited annual accounts of the last three years ending 31.03.2019/20.

Sl. No.	Financial Year	Turn over (in Rupees)
1.	2016-17	
2.	2017-18	
3.	2018-19	
4.	2019-20	
	Average Annual Turnover	

UID No.:

Authorised Signatory
(Power of Attorney holder)

Date:

Statutory Auditor
(Stamp & Signature)

Annexure-6

Format for Financial Requirement - Net Worth Certificate

NIB No: 11/JREDA/RE/SHS/20-21

[On the letterhead of Bidding Company]

To,

The Director,
Jharkhand Renewable Energy Development Agency
3rd Floor, S.L.D.C. Building,
Kusai Colony, Doranda,
Ranchi - 834002

Dear Sir,

Sub: Empanelment of Agencies for Rate Contract for Household Electrification Works through Solar Stand Alone Systems including Five Year Comprehensive Maintenance Contract (CMC) on Turnkey basis across the State of Jharkhand.

Sir,

This is to certify that Net worth of _____ {insert the name of Bidding Company}, as on 31st March 2019/20 is Rs _____. The details are appended below.

Particulars	Amount (In Rs.)
Equity Share Capital	
Add: Reserves	
Subtract: Revaluation Reserve	
Subtract: Intangible Assets	
Subtract: Miscellaneous Expenditure to the extent not written off and carried forward losses	
Net Worth as on 31 st March 2019/20	

UID No.:

Authorised Signatory
(Power of Attorney holder)

Statutory Auditor
(Stamp & Signature)

Annexure -7

Format of Power of Attorney for Signing Bid

NIB No: 11/JREDA/RE/SHS/20-21

POWER OF ATTORNEY

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

Know all men by these presents, we.....(name and address of the registered office) do hereby constitute, appoint and authorize Mr. / Ms.....(name and residential address) who is presently employed with us and holding the position of.....

as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our bid for **NIB No: 11/JREDA/RE/SHS/20-21**, including signing and submission of all documents and providing information / Bids to Jharkhand Renewable Energy Development Agency, representing us in all matters before [Insert Name], and generally dealing with Jharkhand Renewable Energy Development Agency in all matters in connection with our bid for the said Project.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

For

_____ Signature (Name, Designation and Seal)

Accepted by

..... (Signature) (Name, Designation and Seal)

(Name, Title and Address of the Attorney)

Note: The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, lay down by the applicable law and the charter documents of the executants (s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.

Annexure-8

Details of Orders Received and Executed in Last 7 Years

NIB No: 11/JREDA/RE/SHS/20-21

Details of Orders Received & Executed as per NIB for Govt. Organization during Last Seven Years.

SL. No.	Name of Agency/ Organization	Work Order No., Date.	Date of commissioning and full execution with letter no. & date of the performance certificate	Page number of the Work order/ purchase order submitted	Page number of the performance certificate/recommendation submitted

Yours faithfully,

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Note:

- (a) Attach Photocopies of Purchase Orders
- (b) Attach Photocopies of Certificate of Satisfactory Performance Issued by Concerned Nodal Agency/*PSU*/ Govt. Organization
- (c) Separate sheet may be used for giving detailed information in seriatim duly signed with page number. Proof of work order/purchase order and corresponding performance certificate should be submitted/enclosed in the bid. Non submission of the work orders and corresponding performance certificate will be treated as no experience.

Annexure-9

Financial Bid

NIB No: 11/JREDA/RE/SHS/20-21

(To be submitted on the letterhead of the company/firm)

S. No.	Description	Quantity	Unit	Unit Rate (in Rs.)	Amount (in Rs.)
1	2	3	4	5	6
1	SPV Module (with Module Mounting Structure) 200 Wp		Per Wp		
2	12.8 Volts, 80 Ahr. (approx. 1000 Watt hours) Lithium Ferro phosphate. A very good battery management system to be incorporated and got it tested with battery from MNRE/NABAL/IEC accredited lab as per IEC/BIS standard. IEC 62133 , IEC 61960 & UL 1642 : SAFETY OF LIFEPO4 BATTERY		1 Set		
3	Solar DC Charge Controller		1 Set		
4	Load				
5	Other electronic accessories		1 Set		
6	Installation of the system including fixing of pole in the ground.		1 Set		
7	Any other cost/ charges.			
8	CMC (10% of the total cost of system)		1 Set		
Total					

1. 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.
2. Certified that rates quoted are as per specifications, terms & conditions mentioned in the bid document.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

(This bid Performa must be submitted duly signed in case separate sheet is submitted)

Annexure-10

Format for Submitting Bank Guarantee for Earnest Money Deposit

NIB No: 11/JREDA/RE/SHS/20-21

(To be submitted in Rs. 100/- Non-Judicial Stamp Paper to be purchased in the name of the issuing bank)

To,

The Director,
Jharkhand Renewable Energy Development Agency
3rd Floor, S.L.D.C. Building,
Kusai Colony, Doranda,
Ranchi - 834002.

WHEREAS (Contractor's name) (hereinafter referred to as "Contractor"), a company registered under the Companies Act, 1956 and having its registered office at is required to deposit with you, the Purchaser, by way of Earnest Money Rs. (Rupees only) in connection with its tender for the work with reference to Notice Inviting Bid (NIB) No. dated as per specification and terms and conditions enclosed therein.

WHEREAS the Contractor as per "Notice Inviting Bid, point no. 3 Earnest Money" has agreed to establish a Bank Guarantee in Your favour through us valid up to (Date) instead of deposit of earnest money in cash.

WHEREAS you have agreed to accept a Bank Guarantee from us in instead of earnest money in cash from the Contractor.

1. We (Bank) hereby agree and undertake to pay you on demand the said amount of Rs. (Rupees only) without any protest or demur in the event the Contractor/Tenderer after submission of his tender, resiles from or withdraws his offer or modifies the terms and conditions thereof in a manner not acceptable to you or expresses his unwillingness to accept the order placed and/or letter of intent issued on the Contractor/Tenderer for the work under "Notice Inviting Bid Ref. No.:" **11/JREDA/RE/SHS/20-21** ".
2. Your decision as to whether the Contractor/Tenderer has resiled from or has withdrawn his offer or has modified the terms and conditions thereof in a manner not acceptable to you or has expressed his unwillingness to accept the order placed and/or Letter of Intent issued by you on the Contractor/Tenderer for the work under "Notice Inviting Bid Ref. No.:"

11/JREDA/RE/SHS/20-21 in this regard, shall be final and binding on us and we shall not be entitled to question the same.

3. Notwithstanding anything contained in the foregoing, our liability under this Guarantee shall be restricted to Rs. (Rupees only).
4. This Guarantee shall remain valid and in full force and effect up to (Date) and shall expire thereafter unless an intimation is given to the Bank by you earlier in writing discharging us from our obligation under this Guarantee.
5. We shall not revoke this Guarantee during its currency except by your consent in writing.
6. This Guarantee shall not be affected by any change in the constitution of the Contractor/Tenderer or yourselves or ourselves but shall ensure to your benefit and be enforceable against our legal successors or assignees by you or your legal successors.
7. Notwithstanding anything contained herein above unless a demand or claim under this Guarantee is made on us in writing within six months from the date of expiry of this Guarantee we shall be discharged from all liabilities under this Guarantee thereafter.
8. We have power to issue this Guarantee under our Memorandum and Articles of Association and the undersigned who is executing this Guarantee has the necessary power to do so under a duly executed Power of Attorney granted to him by the Bank.

Signed and Delivered

For and on behalf of Bank.

(Banker's Name)

Name of Bank Manager:

Address

.....

Annexure-11

Undertaking by MSEs of Jharkhand for availing preferential treatment

NIB No: 11/JREDA/RE/SHS/20-21

(To be submitted in the official letter head of the company)

I/We _____ (here in after referred to as MSE bidder) being desirous of tendering for the work under the above mentioned tender and having fully understood the nature of the work and having carefully noted all the terms and conditions, specifications etc. as mentioned in the tender document, DO HEREBY DECLARE THAT

- i. The Manufacturing or Services unit is located at.....District.....in the State of Jharkhand.
- ii. The Head office or Corporate Office of the unit/company/enterprise is at within the territorial jurisdiction of Jharkhand.
- iii. The unit/company/enterprise is registered with (tick):-
 - a. Directorate of industries/District Industries Center, (Copy attached).
 - b. Khadi and Village Industries Board, (Copy attached).
 - c. Directorate of Handloom, Sericulture and Handicraft of Jharkhand Govt., (Copy attached).
 - d. Industrial Area Development Authorities, (Copy attached).
 - e. National Small Industries Cooperation Ltd, (Copy attached).
 - f. Other body specified by Directorate of Industries, Jharkhand Govt. from time to time and other industrial units/enterprises which have submitted IEM and been issued Date of Production (DOP) certificate by GM, DIC/MD, Industrial Area Development Authorities Director, Industries, GoJ.
 - g. MSE having Udyog Adhar Number..... issued by Ministry of Micro, Small and Medium enterprises, Gol and has been duly verified, whether unit is existing / functional and doing regular production at(Specify capacity) by GM, DIC/MD, Industrial Area Development Authorities / Director, Industries, GoJ", (Copy attached).
- iv. The unit/company/enterprise is registered under Jharkhand Goods and Services Tax (JGST) Act-2017 or The Central Goods & Services Tax (CGST) Act 2017, (Copy attached).
- v. The unit/company/enterprise have encouraged local people in employment.
- vi. The unit/company/enterprise complies with all statutory and legal formalities of concerned regulators/ Act.
- vii. That the product/services being supplied to JREDA has been manufactured/created by the unit located in Jharkhand only and agree to submit details of batch number/date or any other identifiable tag as per prevalent practice.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

(This bid Performa must be submitted duly signed in case separate sheet is submitted)

Annexure-12

Certificate of Delivery of Solar Stand Alone Systems (Solar Power Packs) received from the Consignee as Proof of Compliance by the Supplier

NIB No: 11/JREDA/RE/SHS/20-21

Certificate Name of Beneficiary:.....

Address of Beneficiary:.....

.....

Certified that we have received the following materials ofNos. of Solar Stand Alone Systems

(Solar Power Pack):

1. Serial nos. of SPV Modules (200Wp) & Make:.....

2. Serial nos. of Batteries (80Ah) & Make:.....

3. Serial nos. of LED Luminaries & Make:.....

4. Serial nos. of Charge Controller & Make:.....

5. Serial no. fan & Make:.....

6. Other materials:.....

Above materials have been supplied by M/s.....on dated.....

Attachment: Photographs of materials (Module, Battery, Charge Controller, fan etc.)

Signature of Consignee

Signature of Supplier along with Seal

Date.....

Date.....

Signature of JREDA representative

Date.....

Annexure-13

Certificate of Installation of Solar Stand Alone Systems (Solar Power Packs) received from the Consignee as Proof of Compliance by the Supplier

NIB No: 11/JREDA/RE/SHS/20-21

Certificate Name of Beneficiary:.....

Address of Beneficiary:.....
.....

Certified that M/s has successfully installedNos. of Solar Stand Alone Systems on..... and are in working condition since seven days:

1. Serial nos. of SPV Modules (200Wp) & Make:-----
2. Serial nos. of Batteries (80Ah) & Make:.....
3. Serial nos. of LED Luminaries & Make:.....
4. Serial nos. of Charge Controller & Make:.....
5. Serial nos. of fan & Make:.....
6. Other materials:.....

Attachment: Photographs of installed system (Three views of each component of each system)

Signature of Consignee

Signature of Supplier along with Seal

Date.....

Date.....

Signature of JREDA representative

Date.....

Annexure-14

Format for Quarterly O&M and CMC Report

NIB No: 11/JREDA/RE/SHS/20-21

[On the letterhead of Bidding Company]

To,
The Director,
Jharkhand Renewable Energy Development Agency
3rd Floor, S.L.D.C. Building,
Kusai Colony, Doranda,
Ranchi – 834002.

Sub: Empanelment of Agencies for Rate Contract for Household Electrification Works through Solar Stand Alone Systems including Five Year Comprehensive Maintenance Contract (CMC) on Turnkey basis across the State of Jharkhand.

Sir,

Date of Installation.....
JREDA Dispatch Order No..... Dated.....
Place of Supply.....
Name of Technicians:.....

S. N.	Place of Installed System	System Details	Date of Site Visit/CMC	Fault observation	Fault repaired	Status of the system
		Module No.				
		Battery No.				
		Charge Controller No.				
		Luminaire and Fan				

(Signature of Consignee)

Name:

Designation:

Seal:

Signature of JREDA representative

Signature of Agency with Seal

Warrantee Card**NIB No: 11/JREDA/RE/SHS/20-21**

(To be submitted in the official letter head of the company during the supply of the materials)

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 Up To	
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 or C/10 Rated at 27°C	
	(g) Guarantee Valid Up To	
6.	Details of Electronics & Other BOS Items	
	(a) Name of the Manufacturer	
	(b) Make	
	(c) Model	
	(d) Serial No(s).	
	(e) Month & Year of Manufacture	
	(f) Guarantee Valid Up To	
7.	Designation & Address of the Person to be Contacted for Claiming Warrantee Obligations	

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

Filling Instructions:

1. The standalone system components will be generally guaranteed as per General Terms & Conditions. The manufacturer can also provide additional information about the system and conditions of Guarantee as necessary. The Guarantee card to be supplied with the system must contain the details of the system supplied as per format given above.
2. During the Guarantee period JREDA/users reserve the right to cross check the performance of the systems for their minimum performance levels specified in the MNRE specifications.