

**Bid Specifications for  
Installation of 0.5 Hp AC Solar Water  
Pumping Systems for “Swachchh  
Vidyalaya Abhiyan” under Deoghar  
District under  
Solar Photovoltaic Programme**

**JREDA  
Government of Jharkhand**



**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.: 12/JREDA/SPV/SWPS/SVA/2015-16, Dated 14.10.2015**

1	Name of the work	Supply, Installation and Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Indigenous 0.5 Hp AC Solar Water Pumping Systems for water supply in schools under "Swachchh Vidyalaya Abhiyan" of Deoghar District on Turnkey basis.
2	Estimated cost (Rs.)	Rs. 6,27,00,000/-
3	Time of completion	04 Months
4	Last date & time for receipt of bids	03.11.2015 (Tuesday) up to 5.00 P.M.
5	Date of publication of tender on website: <a href="http://jharkhandtenders.gov.in">http://jharkhandtenders.gov.in</a>	19.10.2015 (Monday)
6	Pre-bid meeting	27.10.2015 (Tuesday) at 2.00 P.M.
7	Name & address of office Inviting tender	Director, Jharkhand Renewable Energy Development Agency(JREDA) 3 <sup>rd</sup> Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002 (Jharkhand)
8	Contact no. of procurement officer	0651-2491167
9	Helpline no. of e-procurement	0651-2491167

**Any change can be seen on website: <http://jharkhandtenders.gov.in> & [www.jreda.com](http://www.jreda.com)  
Further details can be seen on website: <http://jharkhandtenders.gov.in> & [www.jreda.com](http://www.jreda.com)**

**Director,  
JREDA, Ranchi**

## Section -1

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

### List of Important dates & details of Bids

1.	Name of work	Supply, Installation and Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Indigenous 0.5 Hp AC Solar Water Pumping Systems for water supply in schools under "Swachchh Vidyalaya Abhiyan" of Deoghar District on Turnkey basis.
2.	Tender reference no.	<b>12/JREDA/SPV/SWPS/SVA/2015-16</b>
3.	Completion period	04 Months
4.	Mode of submission of tender	<b>Online through <a href="http://www.jharkhandtenders.gov.in">www.jharkhandtenders.gov.in</a></b>
5.	Tentative Quantity	0.5 Hp Solar PV Water Pumping System: 660 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. The Total estimated cost is about <b>Rs. 6.27 Crore.</b>
6.	Maximum/Minimum lot size	<b>Maximum=330 nos.</b> <b>Minimum= 66 nos.</b> <b>No bidder shall submit bid for quantity less than minimum lot size &amp; more than maximum lot size.</b>
7.	Cost of Bid document (Non-refundable)	❖ Rs.10, 000/- (Rupees Ten Thousands only) for General Bidder. ❖ Rs. <b>Nil</b> for MSME of Jharkhand.
8.	Earnest Money Deposit	❖ <b>For General Bidder:</b> Rs. 1.254 lakh for the lot size of 66 nos. 0.5 Hp SWPS. The bidders for higher capacities are required to submit EMD in the same proportion. ❖ For MSME of Jharkhand: <b>Nil.</b>
9.	Publishing on website	Date. 19.10.2015
10.	Pre-bid meeting	Date: 27.10.2015 at 2.00 PM
11.	Period of downloading of bidding documents	Start date: 19.10.2015 Time: 10.30 AM
		End date: 03.11.2015 Time: 05.00 PM
12.	Bid online submission	Start date: 28.10.2015 Time: 11.00 AM
		End date: 03.11.2015 Time: 05.00 PM
13.	Technical bid opening date	Date. 05.11.2015 Time: 04.00 PM
14.	Authority inviting bids	Director, Jharkhand Renewable Energy Development Agency(JREDA)
15.	Address	Jharkhand Renewable Energy Development Agency(JREDA) 3 <sup>rd</sup> Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002. Ph.No: 2491161,Fax No: 0651-2491165 Web site: <a href="http://www.jreda.com">www.jreda.com</a> E-mail: <a href="mailto:info@jreda.com">info@jreda.com</a>

Note: The tender fee and Earnest Money Deposit (EMD) in original must be submitted between all working days from 03.11.2015 to 04.11.2015 by 5.00 PM. If tender fee and EMD are not received before mentioned date and time, tender shall not be accepted.

Place for receiving tender fee & EMD

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

## **Section-2**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

### 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.
    - i. 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
1. 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. CST/VAT certificate.
    - iv. PAN Card.
    - v. Firm's registration certificate/ Registration certificate of MSME of Jharkhand.
    - vi. Certificate issued by Industry Dept. or MNRE for system manufacturing.
    - vii. Bid Capacity.
    - viii. Audited Balance sheet of last three years.
    - ix. IEC/IS certificate of Solar PV module.
    - x. Test Certificate of Solar Pumps issued by MNRE approved Test Labs/proof of applied for test certificate.

2. 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: Information about the bidding firm.
  - iii. Annexure-3: Declaration by the bidder.
  - iv. Annexure-4: Annual Turn over.
  - v. Annexure-5: Net Worth certificate.
  - vi. Annexure-6: Format for power of attorney for signing of bid.
  - vii. Annexure-7: Proof of supply/execution of solar pump in any SNA/Govt. organization/PSU in the last seven years. Attach copy of orders & corresponding satisfactory completion certificate.
  - viii. Annexure-8: Technical details & make of the Equipments to be supplied.
  - ix. Annexure-11: Bank Guarantee Format for EMD
  - x. Annexure-14: Information on bid capacity.
3. Duly filled in & digitally signed Price Bid.
4. 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.
5. SBD is not to be uploaded by the bidder. The bidder has to give affidavit stating agree / disagree on the conditions in the SBD. The bidders, who disagree on the conditions of SBD, can not participate in the tender.

### **Section-3**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

#### **Notice Inviting Bid**

**Sub:** Supply, Installation and Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Indigenous 0.5 Hp AC Solar Water Pumping Systems for water supply in schools under "Swachchh Vidyalaya Abhiyan" of Deoghar District, Jharkhand on Turnkey basis.

#### **Preamble:**

As part of Solar Photovoltaic Programme, JREDA invites bid for "Supply, Installation and Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Indigenous 0.5 Hp AC Solar Water Pumping Systems for water supply in schools under "Swachchh Vidyalaya Abhiyan" of Deoghar District, Jharkhand on Turnkey basis" for short listing of experienced & eligible bidders to whom work shall be allocated for successful execution of the project in a defined time frame. **No bidders shall submit bid for quantity less than minimum lot size and more than the maximum lot size.**

#### **Part –I:-The Technical Conditions:**

The bidder should fulfill the following Technical eligibility conditions:-

1. The bidder should be MNRE approved Channel Partner/ MNRE approved manufacturer/ MNRE approved PV System integrator/A registered manufacturing company/Firm/Corporation in India (Including MSME of Jharkhand) of at least one of the major sub systems namely SPV Cells/ Modules or Pump or PV System Electronics (Conforming to relevant National/ International Standards). The bidder shall furnish either relevant MNRE certificate or concerned Industry Department certificate clearly indicating that they are manufacturers of SPV Power Plant including SPV Cells/ Modules or pumps or PV System Electronics as applicable. **Authorized dealers 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 balance sheet for last 3 years or from the date of establishment to 31.03.2015, whichever is applicable. These balance sheets should be duly certified by the Statutory Auditor with his stamp.
3. Registered Micro, Small & Medium Enterprise (MSME) of Jharkhand should submit the attested copy of Registration given by the Industry Department, Govt. of Jharkhand.

#### **4. Experience Requirement:**

**For General Bidder:** Bidder should have cumulative experience of executing contracts of supply of at least **25% of Bid capacity in HP/KWp of Solar Pumping System** to any SNA / Govt. Organization / PSU in the last seven years ending up to date of advertisement of this tender. The bidder submitting the bid for higher nos. of solar pumps will require having cumulative work experience proportionately.

**For MSME of Jharkhand:** Bidder should have cumulative experience of executing contracts of supply of at least **10% of Bid capacity in HP/KWp of Solar Pumping System** to any SNA / Govt. Organization / PSU in the last seven years ending up to date of advertisement of this tender. The bidder submitting the bid for higher nos. of solar pumps will require having cumulative work experience proportionately.

**No experience is required for new MSME unit of Jharkhand which is functional since last two years (Audited account by C.A. has to be submitted).**

The copy of work order and certificate indicating its successful execution should be enclosed.

5. The offered PV Modules should be as per IEC61215 edition II / BIS 14286 from an NABL or IECQ accredited laboratory standards having test certificates prescribed by MNRE. The valid test certificate with authorization letter of the manufacturer should be uploaded as annexure. The offered PV Modules should be Crystalline Silicon PV Modules as per IEC 61215 Standards or IS14286 and having test certificates prescribed by MNRE. In addition, the modules must conform to IEC 61730 part I – requirement for construction and part – II requirement for testing, for safety qualification or equivalent IS. The offered PV module should be of same make and specification for which the test certificate is submitted/applied for. The bidder has to supply the modules of same make, specifications and standard brand for which test reports submitted in the tender otherwise the work order & agreement shall be terminated, the security deposit shall be forfeited and the bidder firms shall be black listed.
6. The bidder must be in possession of valid test report of solar water pumping system from any test center approved by MNRE.

The latest test certificate should confirm that Solar Pumps are as per specifications of NIB. The test certificate issued before 1<sup>st</sup> April 2013 will lead to outright rejection of the BID. All the product specifications should be as per JNNSM/MNRE guidelines applicable for 2015-16. However, the tenderers, who have submitted their products for testing at MNRE approved test centers may participate in this tender on submitting the receipt/acknowledgment thereof, but they shall have to submit the test certificate within one month from the date of opening of price bid, otherwise bid may be cancelled and may be awarded or distributed among the next valid bidders.

7. The Participant should have valid CST/VAT/PAN/TAN No of Jharkhand State. If the bidder is not from Jharkhand state, they will have to submit JVAT at the time of agreement. However, the current VAT of their State should be submitted with the tender document.
8. The Bidder should confirm that they have the resources and capability to supply the offered quantity within the scheduled period in the form of an undertaking.

9. **Turnover Requirement:**

**For General Bidder:** Bidder should have the minimum average Annual Turnover of **25% of project estimated cost** derived from the last three financial years ending on 31.03.2014/15 on the basis of audited annual accounts for minimum lot size quoted. The bidder submitting the bid for higher nos. of solar pumps will require having average Annual Turnover in same higher proportion (**25%**).

**For MSME of Jharkhand:** Bidder should have the average Annual Turnover of **10% of project estimated cost** derived from the last three financial years ending on 31.03.2014/15 on the basis of audited annual accounts for minimum lot size quoted. The bidder submitting the bid for higher nos. of solar pumps will require having average Annual Turnover in same higher proportion (**10%**).

The certificate should be as per the Performa given at **Annexure-4**



**10. Net worth Requirement:**

**For General Bidder:** Bidder should have Positive Net Worth of minimum 10% of cost of minimum lot size quoted and thereafter in same proportion for higher quantity as on 31.03.2014/15 on the basis of audited annual accounts.

**For MSME of Jharkhand:** Bidder should have Positive Net Worth of minimum 5% of cost of minimum lot size quoted and thereafter in same proportion for higher quantity as on 31.03.2014/15 on the basis of audited annual accounts.

Net worth certificate should be as per the Performa given at **Annexure-5**

11. Bidders have to download the bid document from website ([www.jharkhandtenders.gov.in](http://www.jharkhandtenders.gov.in)) and submit the scan copy of the cost of the bid document to be submitted in shape of demand draft of Rs. 10,000/- (Rupees Ten thousand only) in favour of "Director, JREDA" on any Indian Nationalized Bank/Scheduled Bank, payable at "Ranchi". The tender fee in original must be submitted on 03.11.2015 & 04.11.2015 by 05.00 PM in the office of JREDA.

12. Bidders should submit in Part – I (Technical Bid) the earnest money in the form of Bank Guarantee of requisite value as mentioned in "Section-1 (List of Important dates & details of Bids)". The Bank Guarantee shall be made in favour of "Director, JREDA" payable at Ranchi from any Indian Nationalized bank/Scheduled bank. The bank guarantee shall remain valid for 12 months. Only Original Bank Guarantee shall be accepted. The EMD in original must be submitted on 03.11.2015 & 04.11.2015 by 05.00 PM in the office of JREDA.

14. 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 then offered to L2 bidder at L1 rate, and so on.

Allocation of the quantity to MSME registered in Jharkhand will be made as per the provisions of section 18.1 (ii) (d) of Jharkhand Industrial Policy 2012 & Jharkhand Procurement Policy 2014. The MSME should be functional & having running production unit of the Jharkhand and should fulfill all the criteria as fixed in Jharkhand Procurement Policy 2014.

Release of numbers of sites to successful bidders will be done in batches. Next batch will be released on the basis of successful execution of the previous batch. If any bidder fails to fulfill the earlier commitment in the stipulated time, allocated quantity of the bidders may be reduced and the so available quantity shall be allotted to the next successful bidder/s based on their performance to complete the work within stipulated time but within their capacity.

To encourage among new MSMEs of Jharkhand who remain unsuccessful at technical bid stage on ground of no work experience only, JREDA may consider allotting up to 33 Nos. from MSME quota to one or more new units who have no work experience in the field but otherwise qualified technically and are functional since the last two financial years at L1 rate.

SECTION-4

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

INSTRUCTIONS TO BIDDERS  
Table of Clauses

Clause	<b>A. General</b>	Clause	<b>D. Submission of Bids</b>
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2	Source of Funds		
3	Eligible Bidders	<b>E. Bid Opening</b>	
4	Qualification of the Bidder	20	Bid Opening
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17	Alternative Proposals by Bidders		
18	Sealing and Marking of Bids		

## 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 works". 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 Date specified in the Part (I)- 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 "Supply, Installation and Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Indigenous 0.5 Hp AC Solar Water Pumping Systems for water supply in schools under "Swachhh Vidyalaya Abhiyan" of Deoghar District, Jharkhand on Turnkey basis" through funds from the District Administration, Deoghar 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 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.
  - a) Copies of original documents defining the constitution or legal status, place of registration, and principal place of business.
  - b) Copy of written power of attorney of the signatory of the Bid to commit the Bidder.
  - c) Total monetary value of the similar nature of the works performed for each of the last seven years;
  - d) 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.
  - e) Reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the last three years.
  - f) An undertaking that the bidder will be able to invest a minimum of cash up to the 10 percentage of the contract price of works, during the implementation of the works;
  - g) Evidence of access to line(s) of credit and availability of other financial resources/ facilities (10 percent of the contract value) certified by banker (the certificate being not more than 3 months old.)

- h) Authority to seek references from the Bidder's bankers;
- i) Information regarding any litigation or arbitration during the last five years in which the Bidder is involved, the parties concerned, the disputed amount, and the matter;
- j) The proposed methodology and programme of construction, backed with equipment and material planning and deployment, duly supported with broad calculations and Quality Management Plan proposed to be adopted, justifying their capability of execution and completion of the work as per technical specifications and within the stipulated period of completion.

4.3 Bids from joint venture are not allowed.

4.4.A To qualify for award of the Contract, each bidder should have in the last five years:

a) **Annual Turn Over:**

**For General Bidder:** Bidder should have the minimum average Annual Turnover of **25% of project estimated cost** derived from the last three financial years ending on 31.03.2014/15 on the basis of audited annual accounts for minimum lot size quoted. The bidder submitting the bid for higher nos. of Solar Pumps will require having average Annual Turnover in same higher proportion (**25%**).

**For MSME of Jharkhand:** Bidder should have the average Annual Turnover of **10% of project estimated cost** derived from the last three financial years ending on 31.03.2014/15 on the basis of audited annual accounts for minimum lot size quoted. The bidder submitting the bid for higher nos. of Solar Pumps will require having average Annual Turnover in same higher proportion (**10%**).

The certificate should be as per the Performa given at **Annexure-4**

b) **Net worth Requirement:**

**For General Bidder:** Bidder should have Positive Net Worth of minimum 10% of cost of minimum lot size quoted and thereafter in same proportion for higher quantity as on 31.03.2014/15 on the basis of audited annual accounts.

**For MSME of Jharkhand:** Bidder should have Positive Net Worth of minimum 5% of cost of minimum lot size quoted and thereafter in same proportion for higher quantity as on 31.03.2014/15 on the basis of audited annual accounts.

Net worth certificate should be as per the Performa given at **Annexure-5**

c) **Experience:**

**For General Bidder:** Bidder should have cumulative experience of executing contracts of supply of at least **25% of Bid capacity in HP/kWp of Solar Water Pumping System** to any SNA / Govt. Organization / PSU in the last seven years ending up to date of advertisement of this tender. The bidder submitting the bid for higher nos. of Solar Pumps will require having cumulative work experience proportionately.

**For MSME of Jharkhand:** Bidder should have cumulative experience of executing contracts of supply of at least **10% of Bid capacity in HP/kWp of Solar Water Pumping System** to any SNA / Govt. Organization / PSU in the last seven years ending up to date of advertisement of this tender. The bidder submitting the bid for higher nos. of Solar Pumps will require having cumulative work experience

proportionately. No experience is required for new MSME unit of Jharkhand which is functional since last two years (Audited account by C.A. to be submitted).

The copy of order and corresponding performance certificate indicating its successful execution should be enclosed with the check list as at **Annexure-7**.

- 4.4.B (a) Each bidder must produce:
- i) The current income-tax clearance certificate/PAN.
  - ii) An affidavit that the information furnished with the bid documents is correct in all respects; and
  - iii) Such other certificates as defined in the Notice Inviting Bid. Failure to produce the certificates shall make the bid non-responsive.

4.4.C To qualify for a package of contracts made up of this and other contracts for which bids are invited in the Notice Inviting Tender, the bidder must demonstrate having experience and resources sufficient to meet the aggregate of the qualifying criteria for the individual contracts.

4.5 Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity for work is equal to or more than the total bid value. The available bid capacity will be calculated as under:

where

$$\text{Assessed Available Bid capacity} = [ ( A \times N \times 2 ) - B ]$$

A = Maximum value of solar related works executed in any one year during the last five years taking into account the completed as well as works in progress.

N = Number of years prescribed for completion of the works for which bids are invited (period up to 6 months to be taken as half-year and more than 6 months as one year).

B = Value, at the current price level, of existing commitments and on-going works to be completed during the period of completion of the works for which bids are invited.

Note : The statements showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Competent Authority.

4.6 Even though the bidders meet the above qualifying criteria, 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.

## **7 Site Visit**

7.1 The Bidder, at his own cost, responsibility and risk, is encouraged to visit, examine and familiarise himself with the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for supply & installation of the Works. The costs of visiting the Site shall be at the Bidder's own expense. He may contact the person whose contact details are given in the Notice Inviting Bid.

## **B. Bidding Documents**

8 Content of Bidding Documents

8.1 The set of bidding documents comprises the documents listed below and addenda issued in accordance with Clause 10 of ITB.

1. Notice Inviting Tender
2. Instructions to Bidders
3. Qualification Information
4. Conditions of Contract
5. Specifications
6. Bill of Quantities
8. Form of Bid
9. Form of Bank Guarantee.

- 8.2 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 23 hereof, bids, which are not substantially responsive to the requirements of the Bid Documents, shall be rejected.

## **9 Clarification of Bidding Documents and Pre-bid Meeting**

- 9.1 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. Copies of the JREDA's response will be uploaded in form of corrigendum on our website [www.jreda.com](http://www.jreda.com).
- 9.2.1 Pre-bid meeting will be held on **27/10/2015 at 02.00 PM** in the Conference Hall of JREDA. The bidder or his authorized representative may attend the meeting.
- 9.2.2 The purpose of the such a meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 9.2.3 The bidder is requested to submit any questions in writing or by e-mail so as to reach the JREDA not later than two days before the meeting.
- 9.2.4 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 of an Addendum/Corrigendum pursuant to Clause 10 of ITB on website.
- 9.2.5 Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

## **10 Amendment of Bidding Documents**

- 10.1 Before the deadline for submission of bids, the JREDA may modify the bidding documents by issuing addenda/Corrigendum.
- 10.2 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the JREDA shall extend, if necessary, the deadline for submission of bids, in accordance with Clause 19.2 of ITB.

## **C. Preparation of Bids**

### **11 Language of Bid**

- 11.1 All documents relating to the Bid shall be in the language specified in the Notice Inviting Bid.  
12 Documents Comprising the Bid

#### **A. Technical Bid – (Fee/Pre-Qualification/Technical Cover)**

##### **1) 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.

##### **2) 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.

##### **3) 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) Sale Tax/VAT clearance certificate.
- c) Proof of completion of similar works during the last 7 years and list of similar works in hand in the prescribed formats in the ITB duly signed by the competent authority of the issuing Department.
- d) List of works for which bids already submitted.
- e) Financial Report for the last 3 years (upto 31.3.2014/15) certified by chartered Accountant.
- f) Annual Turn over Details certified by Chartered Accountant.
- g) Net worth certificate certified by Chartered Accountant.
- h) List of current litigant cases in which the bidder is involved.
- i) An affidavit for non-engagement of related persons.
- j) Proof of test certificates solar PV module and latest test certificate should confirm that Solar Water Pumping Systems are as per specifications of NIB which are which are conforming to MNRE specifications of SWPS 2015-16. The test certificate issued before 1<sup>st</sup> April 2013 will lead to outright rejection of the BID/ proof of applied for test certificate from any MNRE approved test centers.
- k) Authorized address & contact numbers of the bidder as per instruction in the Notice Inviting Bid duly digitally signed.
- l) Bid Capacity

- m) Undertaking of Bidder that he is able to invest minimum of cash upto 10% as defined in ITB.
- n) Undertaking for validity of bid for 180 days.

**B – Financial Bid – (Finance Cover)**

- i) Duly Quoted & digitally signed Bill of Quantity (BoQ) in the file supplied by JREDA in .xls format shall be uploaded.
- ii) Declaration by Bidder in the format Section – 6 form of Bid in .pdf format.

NOTE:- a) All the documents should be digitally signed.

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

Section Particulars

- i. Notice inviting Tender
- ii. Instruction to the bidders
- iii. Conditions of Contract
- iv. Contract Data
- v. Specifications
- vi. Drawings if any

**13 Bid Prices**

- 13.1 The Contract shall be for the whole Works, as described in Clause 1.1 of ITB.
- 13.2 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.
- 13.3 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.
- 13.4 The rates and prices quoted by the Bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment.
- 13.5 Quoted price for solar pumps shall be complete in all respect as per Technical Specifications inclusive of all Central/State/Local taxes & duties, packing, forwarding, transit insurance, loading & unloading, transportation & other charges etc. FOR destination at any site in Jharkhand and inclusive of installation, testing, commissioning, performance testing and training.
- 13.6 Tenderers should quote their rates considering wide variation of site conditions, variation in price of different components during the year 2015-16 and keeping the quantum and quality of work in mind. If JREDA anticipates that rate is abnormally low or high, tender may be cancelled.

**14 Currencies of Bid**

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

**15 Bid Validity**

- 15.1 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.
- 15.2 In exceptional circumstances, prior to expiry of the original time limit, the JREDA may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his Earnest Money. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his earnest money for a period of the extension, and in compliance with Clause 16 of ITB in all respects.

**16 Earnest Money**

- 16.1 The Bidder shall furnish, as part of the Bid, Earnest Money, in the amount specified in the Notice Inviting Bid.
- 16.2 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.
- 16.3 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.
- 16.4 The Earnest Money of unsuccessful bidders will be returned within 30 days of the end of the Bid validity period specified in Clause 15.1 of ITB.

- 16.5 The Earnest Money of the successful Bidder will be discharged when the Bidder has signed the Agreement and furnished the required Security Deposit.
- 16.6 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 Performance Security and Security Deposit.

**17 Alternative Proposals by Bidders**

- 17.1 Bidders shall submit offers that comply with the requirements of the bidding documents, including the Bill of Quantities and the basic technical design as indicated in the drawings and specifications. Alternative proposals will be rejected as non-responsive.

**D. Submission of Bids**

**18 Sealing and Marking of Bids**

- 18.1 The Bidder shall place the two separate files (File I) marked "Technical Bid" and "Financial Bid" (File -II). The file will have markings as follows:  
Technical Bid: To be opened on (date and time of Technical Bid opening as per clause 20.1 of ITB.)  
Financial Bid: Not to be opened except with the approval of JREDA.

The contents of the Technical and Financial Bids shall be as specified in clause 12.1 of ITB. All documents are to be signed digitally by the bidder.

- 18.2 The first and second files containing the Technical and Financial Bids 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 20.1 of ITB.

**19 Deadline for Submission of Bids**

- 19.1 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.
- 19.2 The JREDA may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10.3 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**

**20 Bid Opening**

- 20.1 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.
- 20.2 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.
- 20.3 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.
- 20.4 The JREDA will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Clause 20.3 of ITB.
- 20.5 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 12.3 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.
- 20.6 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.
- 20.7 At the time of the opening of the 'Financial Bid', the names of the bidders whose bids were found responsive in accordance with clause 20.5 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
- 20.8 The JREDA shall prepare the minutes of the opening of the Financial Bids.



## **21 Process to be Confidential**

21.1 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

## **22 Clarification of Bids and Contacting the JREDA**

22.1 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.

22.2 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.

## **23 Examination of Bids and Determination of Responsiveness**

23.1 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., priced bill of quantities, technical specifications and drawings.

23.2 A substantially responsive "Financial Bid" is one, which conforms to all the terms, conditions, and specifications of the bidding documents, without material deviation or reservation. A material 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.

23.3 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.

## **24 Corrections of Errors**

24.1 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.

24.2 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 16.6(b) of ITB.

## **25 Evaluation and Comparison of Bids**

25.1 The JREDA will evaluate and compare only the bids determined to be substantially responsive in accordance with Clause 23 of ITB.

25.2 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 24 of ITB.

25.3 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 performance security set forth in Clause 32 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 performance security shall be decided at the sole discretion of the Employer, which shall be final, binding and conclusive on the bidder.

25.4 After its evaluation, the JREDA may require that the amount of the performance security set forth in Clause 30 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 performance security shall be decided at the sole discretion of the JREDA, which shall be final, binding and conclusive on the bidder.

## **26 Price Preference**

26.1 There will be no price preference to any bidder.

**F. Award of Contract**

**27 Award Criteria**

- 29.1 Subject to Clause 29 of ITB, the JREDA will award the Contract to the Bidder whose Bid has been determined:
- i. 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).

**28 JREDA's Right to accept any Bid and to reject any or all Bids**

- 28.1 Notwithstanding Clause 27 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.

**29 Notification of Award and Signing of Agreement**

- 29.1 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 email 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").
- 29.2 The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provisions of Clause 30.
- 29.3 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 performance security is furnished.
- 29.4 Upon the furnishing by the successful Bidder of the Performance Security, the JREDA will promptly notify the other Bidders that their Bids have been unsuccessful.

**30 Security Deposit:**

- 30.1 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.
- 30.2 Successful MSME bidders shall be required to deposit only "10% of security deposit" as per Jharkhand Procurement Policy.
- 30.3 The Security Deposit shall be refunded / released to the bidder after expiry of 60 days from the actual date of successful completion.

**31. Performance Guarantee:**

- 31.1 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 any payment.
- 31.2 Successful MSME bidders shall submit a Performance Guarantee @2.5% of the allotted work order value in the form of bank guarantee valid for 5 years on or before release of payment.
- 31.3 The Performance Guarantee will have to be maintained by the bidder with JREDA till the completion of warranty period.
- 31.4 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.
- 31.5 Non submission of Security Deposit/Performance Guarantee within the time frame, shall lead to forfeiture of EMD and cancellation of LOI/LOA.
- 31.6 If Bidder/MSME unit fails to carry out the work allotted to him as per the provisions of the tender documents then such Bidder/MSME unit may be black listed for future awards of work and quantity allotted to him shall be awarded to bidders on their existing performance.

**32 Five Years Comprehensive Maintenance Contract (CMC):**

- 32.1 The solar water pumping system contract price includes the provision of 5 years mandatory Comprehensive Maintenance Contract (CMC). To ensure long term sustainability of the system, the bidder must provide his representatives name, full address, mobile number and photographs to JREDA with one hard copy as well as the names and contact details of all technicians must also be provided. Failure to do shall invite penalty and action.
- 32.2 The Comprehensive Maintenance Contract shall include servicing & replacement guarantee for parts and components (such electronics, Inverter, PV modules, pumps and other hardware) of SWPS for five years from the date of installation. **PV modules shall be warranted for 25 years.** The date of CMC maintenance period shall begin on the first date of next month of actual commissioning of SWPS. It is mandatory for the contractor to carry out CMC regularly and submit report to JREDA within one month of the quarter ending. Failure to submit quarterly CMC reports timely shall invite penalty of Rs. 1000/- per week after the end of the one month of the ending of the quarter. **For carrying out effective and smooth maintenance of the SPV Water Pumping System, reasonable number of service centers must be established in Deoghar district by the successful bidder before the commissioning of the systems.**
- 33 Preventive/Routine Maintenance:**  
This shall be done by the supplier/contractor at least once in every three months and shall include activities such as, cleaning and checking the health of the SPV system, cleaning of module surface, tightening of all electrical connections, regular checks to identify any leakage of electricity, changing of tilt angle of module mounting structure, cleaning & greasing of battery terminals and any other activity that may be required for proper functioning of the Solar Water Pumping System. The maintenance record should be kept properly and to be submitted at JREDA office time to time. CMC documents should be certified by Beneficiary.
- 34 Breakdown / corrective Maintenance:**  
Whenever a complaint is lodged by the user the bidder shall attend the same immediately. It is clarified that effective CMC means that the bidder should ensure smooth working of all the Solar Water Pumping System throughout the CMC period and therefore, if any complaint in this level of service is found by the JREDA officials and if the bidder do not attempt the rectification of any such defect within three days of communication of such complaint to the bidders, the bidder will be liable for a penalty of Rs. 100 per day beyond three days of reporting of such complaint.
- 35 Advances**
- 35.1 The JREDA will not provide Mobilization Advance and Advance against the security of equipment as provided in Part I - General Conditions of Contract.
- 36 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: 12/JREDA/SPV/SWPS/SVA/2015-16

#### **1.0 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.

#### **2.0 Scope of work:**

The Scope of work for **Solar Water Pumping System** includes Manufacturing, Supply, Installation and Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Indigenous 0.5 Hp AC Solar Water Pumping Systems for water supply in schools under "Swachchh Vidyalaya Abhiyan" of Deoghar District, Jharkhand on Turnkey basis complete set in all respects along with one set of operational instruction cum maintenance manual (both English and Hindi) for each set and delivery on FOR destination/site (door delivery) basis across the State of Jharkhand as per the direction of JREDA. The list of destinations/consignees will be given to the successful bidder by JREDA before the start of dispatch.

#### **3.0 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.

#### **4.0 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 including Jharkhand Vat etc. including 5 years CMC 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.

## **5.0 Inspection of the factory and Tests:**

JREDA reserves the right to inspect manufacturer's works/factory to ascertain the capability/availability of necessary equipment and infrastructure required for manufacture of the items offered. JREDA shall have the access and right to inspect the work or any part thereof at any stage and to test the goods to confirm their conformity to the technical specifications. Successful bidder shall inform JREDA at least 15 days in advance of schedule dispatch for technical sample audit.

## **6.0 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).
- (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-12**.
  - iii) Certificate for minimum seven days of satisfactory performance with photographs of the each installed SWPS with GPS Co-ordinates in Soft copy(CD).
  - iv) Photographs of installed SWPS with flow of water with signature & seal of Consignee & JREDA Officials.
  - v) G Photographs of all the equipment (materials) at destination with signature & seal of Consignee & JREDA Officials. This record should be kept in the office of Consignee for verification.
- (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-13**.

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.

## **7.0 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 manufacturing site must have sufficient testing facilities. 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. 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 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 L.O.I. 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 2 months period the supplier will have to ensure pre dispatch inspection from JREDA and within next 30 days JREDA will issue Dispatch instruction. Accordingly the work of supply & installation will be completed by the vendor within 90 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.

## **8.0 Liquidated Damages for Delay in Completion:**

If the supplier fails in the due performance of the contract to deliver any part of the equipment or complete the work within the time fixed under the contract or any extension thereof granted to him by JREDA and/or to fulfill his obligations in time under the contract, he shall be liable to pay to JREDA @0.5% per week maximum up to 10% of work value delayed beyond contract period.

## **9.0 Risk & Cost:**

If the contractor fails to complete the awarded work from the scheduled date of completion then JREDA will be at liberty to cancel the said work order and will get the full or part of left over work to be completed by way of engaging alternate contractor and completion of the said work shall be got completed at risk & cost of the failed contractor and failed contractor shall be liable to pay all the dues to JREDA.

## **10.0 Insurance:**

The supplier shall arrange for transit and erection insurance of the materials & equipments for setting up of Solar Photovoltaic System.

## **11.0 Assignment/ Sub-letting:**

The Manufacturer shall not assign or sublet, manufacture, shop testing, packing & forwarding, transportation, transit insurance, supply in whole or part, and its obligations to any third party to perform under the order/contract.

In the event the manufacturer contravenes this condition, JREDA reserves the right to reject the equipment/work contract and procure the same from elsewhere at manufacturer's risk and cost. The Manufacturer shall be solely liable for any loss or damage which JREDA may sustain in consequence or arising out of such replacing of the contract work.

**12.0 Completeness of Tender:**

All fittings, assemblies, accessories, hardware items etc. & safety and protection devices as required shall be deemed to have been included in the tender, whether such items are specifically mentioned in the BoM or not.

**13.0 Compliance with Regulations:**

The supplier/contractor shall comply with all applicable laws or ordinances, codes approved standards, rules and regulations and shall procure all necessary municipal and/or other statutory bodies and government permits & licenses etc. at his own cost. The contractor shall leave the purchaser, Director, JREDA harmless as a result of any infractions thereof.

**14.0 Agreement:**

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

**15.0 Income Tax / VAT:**

Without prejudice to the obligations of the supplier under law, any income tax and VAT 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 supplier. JREDA shall provide the supplier a certificate for such deductions of tax.

**16.0 Training Program, After Sales Service and Availability of Spare Parts:**

**16.1** The responsibility of organizing training program for SWPS will rest on the successful bidder.

The training program will be organized in consultation with JREDA/Consignee. The training program will focus on operation and maintenance of SWPS. Printed leaflet/literature should be made available in Hindi by the Supplier regarding the operation and maintenance of their SWPS.

**16.2** The Supplier shall depute authorized Service Engineer within 7 days from the date of the intimation of fault, and establish sufficient inventory of spares in the State in consultation with JREDA to provide satisfactory and uninterrupted services during the warranty period.

**17.0 Force Majeure conditions:**

In the event of either party being rendered unable by force majeure to perform any obligation required to be performed by them under this agreement, relative obligation of the party affected by such force majeure shall be treated as suspended during which force majeure condition last.

The term force majeure shall have herein mean riots (other than among the contractor's employee), civil commotion, war (whether declared or not), invasion, act of foreign enemies hostilities, rebellion, insurrection, military coup to usurp power, act of god such as earthquake, lightning, floods, fires not caused by contractor's negligence and other cause which the contractor has no control and accepted as such by the Director, JREDA, whose decision shall be final and binding.

If the work is suspended by force majeure conditions lasting for more than 45 days, the purchasers shall have the option of canceling this contract in whole or part thereof, at its discretion. The contractor shall not claim for compensation for force majeure conditions.

**18.0 Jurisdiction of the Court:**

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

## Section-6

### NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16 Technical Specification

#### SOLAR PHOTOVOLTAIC WATER PUMPING SYSTEMS

##### INTRODUCTION

A Solar Photovoltaic (SPV) Water Pumping System consists of:

##### **PV Array:**

Capacity of PV array should be 600 Wp.

PV Array should be mounted on a suitable structure with a provision of tracking the sun.

- Motor Pump Set (Surface or submersible) :
  - A.C. Induction Motor Pump set with a suitable Inverter
- Electronics :
  - Maximum Power Point Tracker (MPPT)
  - Inverter for A.C. Motors
  - Electronic Protections.
- Interconnect Cables and
- "On-Off" switch.

##### II. **PERFORMANCE SPECIFICATIONS AND REQUIREMENTS**

Solar PV Water Pumps with PV module capacity of 600 Wp may be installed on a suitable bore-well / open well / Water Reservoir / Water stream etc.

Under the "Average Daily Solar Radiation" condition of 7.15 KWh / sq.m. on the surface of PV array (i.e. coplanar with the PV Modules), the minimum water output from a Solar PV Water Pumping System at different "Total Dynamic Heads" should be as specified below :

##### **For A.C. Induction Motor Pump Set with a suitable Inverter :**

- (i) 90 liters of water per watt peak of PV array, from a Total Dynamic Head of 10 metres (Suction head, if applicable, minimum of 7 metres) and with the shut off head being at least 12 metres.
- (ii) **45** liters of water per watt peak of PV array, from a Total Dynamic Head of 20 metres (Suction head, if applicable, up to a maximum of 7 metres) and with the shut off head being at least 25 metres.
- (iii) 32 liters of water per watt peak of PV array, from a Total Dynamic Head of 30 metres and the shut off head being at least 45 metres.
- (iv) 19 liters of water per watt peak of PV array, from a Total Dynamic Head of 50 metres and the shut off head being at least 70 metres.
- (v) 13 liters of water per watt peak of PV array, from a Total Dynamic Head of 70 metres and the shut off head being at least 100 metres.
- (vi) *8.5 liters of water per watt peak of PV array, from a Total Dynamic Head of 100 metres and the shut off head being at least 150 metres.*

The actual duration of pumping of water on a particular day and the quantity of water pumped could vary depending on the solar intensity, location, season, etc.

Indicative performance specifications for the Shallow and Deep well SPV Water Pumping



Systems are given in the Annexure II.

### III. PV ARRAY

The SPV water pumping system should be operated with a PV array capacity of 600 **Watts peak**, measured under Standard Test Conditions (STC). Sufficient number of modules in series and parallel could be used to obtain the required PV array power output. The power output of individual PV modules used in the PV array, under STC, should be a minimum of 125 Watts peak, with adequate provision for measurement tolerances. Use of PV modules with higher power output is preferred.

Indigenously produced PV module (s) containing mono/ multi crystalline silicon solar cells should be used in the PV array for the SPV Water Pumping systems.

- Modules supplied with the SPV water pumping systems should have certificate as per IEC 61215 specifications or equivalent National or International/ Standards.
- Modules must qualify to IEC 61730 Part I and II for safety qualification testing.
- The efficiency of the PV modules should be minimum 14% and fill factor should be more than 70%.
- The terminal box on the module should have a provision for "Opening" for replacing the cable, if required.
- 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

### IV MOTOR PUMP-SET

- The SPV water pumping systems may use any of the following types of motor pump sets:
  - a. Surface mounted motor pump-set
  - b. Submersible motor pump set
  - c. Floating motor pump set
  - d. Any other type of motor pump set after approval from Test Centers of the Ministry.
- The "Motor Pump Set" should have a capacity of **0.5 hp and** should have the following features:
  - The mono block AC centrifugal motor pump set with the impeller mounted directly on the motor shaft and with appropriate mechanical seals which ensures zero leakage.
  - The motor of the capacity ranging from 0.2 hp to 10 hp should be AC type. The suction and delivery head will depend on the site specific condition of the field.
  - Submersible pumps could also be used according to the dynamic head of the site at which the pump is to be used.
- It is recommended that all parts of the pump and the motor of the submersible pumps should be made of stainless steel.

The manufacturers of pumps should self certify that, the pump and **all external parts of motor used in submersible pump which are in contact with water, are of stainless steel.** The pumps used for solar application should have a 5 years warranty so it is essential that the construction of the pump be made using parts which have a much higher durability and do not need replacement or corrode for at least 5 years.

- Provision for remote monitoring of the installed pumps must be made in the controllers or the inverters either through an integral arrangement or through an externally fitted arrangement. It should be possible to ascertain the daily water output, the power generated by the PV array, the UP TIME of the pump during the year, Number of days the pump was unused or under breakdown/repairs.
  - a) Name of the Manufacturer or Distinctive Logo.
  - b) Model Number.
  - c) Serial Number.

The suction/ delivery pipe (GI/HDPE), electric cables, floating assembly, civil work and other fittings required to install the Motor Pump set.

V. **MOUNTING STRUCTURES and TRACKING SYSTEM.**

The PV modules should be mounted on metallic structures of adequate strength and appropriate design, which can withstand load of modules and high wind velocities up to 150 km per hour. The support structure used in the pumping system should be hot dip galvanized iron with minimum 80 micron thickness.

To enhance the performance of SPV water pumping systems, manual or passive or auto tracking system must be used. For manual tracking, arrangement for seasonal tilt angle adjustment and three times manual tracking in a day should be provided.

VI. **ELECTRONICS AND PROTECTIONS**

- Maximum Power Point Tracker (**MPPT**) should be included to optimally use the Solar panel and maximize the water discharge.
- Inverter could be used, if required, to operate an A.C. Pump. The inverter must have IP 54 protection or must be housed in a cabinet having at least **IP54** protection.
- Adequate protections should be incorporated against dry operation of motor pump set, lightning, hails and storms.
- Full protection against open circuit, accidental short circuit and reverse polarity should be provided.

VII. **ON/OFF SWITCH**

A good reliable switch is to be provided. Sufficient length of cable should be provided for inter-connection of the PV array, Controller / Inverter and the motor pump set.

VIII. **WARRANTY**

The PV Modules 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. The whole system including submersible/ surface pumps shall be warranted for 5 years. Required Spares for trouble free operation during the Warrantee period should be provided along with the system.

IX. **OPERATION AND MAINTENANCE MANUAL**

An Operation and Maintenance Manual, in English and the local language, should be provided with the solar PV pumping system. The Manual should have information about solar energy, photovoltaic, modules, AC motor pump set, tracking system, mounting structures, electronics and switches. It should also have clear instructions about mounting of PV module, DO's and DONT's and on regular maintenance and Trouble Shooting of the pumping system. Name and address of the person or Centre to be contacted in case of failure or complaint should also be provided. A warranty card for the modules and the motor pump set should also be provided to the beneficiary.

X. **NOTES**

- Wherever the "Water table" or the level of water in the reservoir or the water source (e.g. Diggee) from which the water is to be pumped, is within 10 metres depth, 'Surface Motor Pump sets' should be preferred.
- The type of pump set used must match the total dynamic head requirement of the site (i.e. the location at which it is installed). Moreover, it should be appropriately tested and certified by the authorized test centres of the Ministry to meet the performance and water discharge norms specified in section II above.
- There should not be any compulsion to use only one or the other type of Motor-pump set. The beneficiary may select an appropriate Model (i. e. Capacity of PV Array and Type of Motor Pump Set) as per site requirement.

**Format for Covering Letter**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

(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:** Supply, Installation and Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Indigenous 0.5 Hp Solar AC Water Pumping Systems for water supply in schools under "Swachchh Vidyalaya Abhiyan" of Deoghar District, Jharkhand on Turnkey basis.

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, valid for twelve months.

The tender is uploaded on [www.jharkhandtenders.gov.in](http://www.jharkhandtenders.gov.in) as per the requirement of the website separately Technical Bid & Financial Bid.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

**Information About The Bidding Firm**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**  
(To be submitted in the official letter head of the company)

<b>SL. No.</b>	<b>Particulars</b>	
1.	Name of the Bidder	
2.	Address of Bidder with Telephone, Fax, email	
3.	Address of the Registered Office	
4.	Address of the works	
5.	GPS Co-ordinate of Registered Office	
6.	GPS Co-ordinate of Factory Campus	
7.	Name & Designation of Authorized Signatory for Correspondence (Attach Power of Attorney as per <b>Annexure-6</b> )	
8.	Nature of Firm (Proprietorship/Partnership /Pvt. Ltd./Public Ltd. Co./Public Sector)	
9.	Permanent Account Number (PAN)/TIN (Attach proof)	
10.	Firm's Registration Number (Attach proof)	
11.	Sales Tax/Value Added Tax Registration Number (Attach proof)	
12.	Specify the Item Originally Manufactured (SPV module/Electronics/Battery) (Attach copy of Registration Certificate of Industry Department)	
13.	Details of in-house testing facility (Attach Proof)	
14.	Office/ Dealer and Service network in Jharkhand with TIN No.(Give details)	
15.	Quoted quantity	
16.	Particulars of Earnest Money	
17.	Place where Materials will be Manufactured	
18.	Place where Materials will be Available for Inspection	
19.	Other details and remarks, if any	

Yours faithfully,

(Signature of Authorized Signatory)

Name :  
Designation :  
Company seal :

(Separate sheet may be used for giving detailed information duly signed)

**Declaration by the Bidder**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

(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 SNA/ Government Dept. /PSU.
11. This offer shall remain valid for Six months from the date of opening of the tender.
12. The Bidder gives the assurance to execute the tendered work as per specifications terms and conditions.
13. The Bidder confirms the capability to supply and install required no. of systems per month.
14. 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:

**Format For Financial Requirement – Annual Turnover**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

[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:** Supply, Installation and Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Indigenous 0.5 Hp AC Solar Water Pumping Systems for water supply in schools under "Swachhh Vidyalaya Abhiyan" of Deoghar District, Jharkhand on Turnkey basis.

We certify that the Bidding Company had an average Annual Turnover of Rs. -----  
----- based on audited annual accounts of the last three years ending 31.03.2014/2015 for SPV system.

*Authorised Signatory*  
(Power of Attorney holder)

*Statutory Auditor*  
(Stamp & Signature)

Date:

**Format For Financial Requirement - Net Worth Certificate**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

[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:** Supply, Installation and Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Indigenous 0.5 Hp AC Solar Water Pumping Systems for water supply in schools under "Swachchh Vidyalaya Abhiyan" of Deoghar District, Jharkhand on Turnkey basis.

This is to certify that Net worth of \_\_\_\_\_ {insert the name of Bidding Company}, as on 31st March 2014/2015 is Rs \_\_\_\_\_. The details are appended below.

<b>Particulars</b>	<b>Amount (In Rs.)</b>
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 <sup>st</sup> March 2014/2015	

*Authorised Signatory*  
(Power of Attorney holder)

*Statutory Auditor*  
(Stamp & Signature)

**Format of Power of Attorney for Signing Bid**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

**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 **All tenders notified by Jharkhand Renewable Energy Development Agency during 2015-16**, 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

Accepted by

..... (Signature)

(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.



**Details of Orders Received and Executed in Last 7 Years**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

Details of Orders Received & Executed by the Manufacturer/Supplier for Supply of **SWPS** to SNA/ Govt. Organization during Last Seven Years.

<b>SL. No.</b>	<b>Name of Agency/ Organization (SNA/Govt. organization/ PSU)</b>	<b>Purchase Order No., Date.</b>	<b>Ordered Qty.</b>	<b>Capacity and type of Solar pump</b>	<b>Wattage of SPV module used</b>	<b>Qty. Supplied Within Delivery Schedule</b>	<b>Qty. Supplied After Delivery Schedule</b>

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

**Format for Technical Details****NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

To,

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

Dear Sir,

**Sub:**Supply, Installation and Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Indigenous 0.5 Hp AC Solar Water Pumping Systems for water supply in schools under "Swachchh Vidyalaya Abhiyan" of Deoghar District, Jharkhand on Turnkey basis.

<b>SL. No.</b>	<b>Particulars</b>	<b>Details with make</b>
1	Proposed no. of SPV modules with Wp and make	:
2	Weather resistant HDPE Junction Box (IP65)	:
3	Nominal Voltage	:
4	Operating Voltage of Solar Module (nom)	:
5	Peak Power Voltage (Vmp)	:
6	Peak Power Current (Imp)	:
7	Open Circuit Voltage (Voc)	:
8	Short Circuit Current (Isc)	:
9	Motor Pump set Model & Make	:
10	Type of pump	:
11	Capacity of the Pump (Hp)	:
12	Make of the Controller/Inverter (VDF)	:
13	Rating of the Controller/Inverter(VDF)	:
14	Total Dynamic head (M)	:
15	Water output (Itrs/day)	:

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

**Technical Detail Form****NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

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

**Warrantee 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 Up To	
5.	Details of Pump	
(a)	Name of the Manufacturer	
(b)	Make	
(c)	Model	
(d)	Batch/Serial No(s).	
(e)	Month & Year of Manufacture	
(f)	Rated V & Hp Capacity	
(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 &amp; Company Seal)

**Filling Instructions:**

1. The SWPS 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.

**Price Bid**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

S. No.	Description	Total Bid Quantity	Unit Price (in Rs.)	
			In figure	In words
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	Supply, Installation and Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Indigenous 0.5 Hp AC Solar Water Pumping Systems for water supply in schools under "Swachchh Vidyalaya Abhiyan" of Deoghar District, Jharkhand on Turnkey basis.			

- 1 Above quoted price for SWPS are complete in all respect as per Technical Specifications inclusive of all Central/State/Local taxes & duties, packing, forwarding, transit insurance, loading & unloading, transportation & other charges etc. FOR destination at any site in Jharkhand and inclusive of installation, testing, commissioning, performance testing and training.
- 2 Certified that rates quoted for SWPS 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)

**Format for Submitting Bank Guarantee for Earnest Money**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

(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 ..... (Supplier's name) (hereinafter referred to as "Supplier"), 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 Supplier 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 Supplier.

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 Supplier/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 Supplier/Tenderer for the work under "Notice Inviting Bid Ref. No.:" **12/JREDA/SPV/SWPS/SVA/2015-16**".
2. Your decision as to whether the Supplier/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 Supplier/Tenderer for the work under "Notice Inviting Bid Ref. No. : **12/JREDA/SPV/SWPS/SVA/2015-16** 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 Supplier/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 .....

.....

**Certificate of Delivery of 0.5 HP AC Solar Water Pumping System received by the  
Consignee as Proof of Compliance by the Supplier**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

**प्रमाण-पत्र**

Consignee/प्राप्त कर्ता का नाम : .....पदनाम: .....

विभाग का नाम: .....

विभाग का पता : .....

प्रमाणित किया जाता है कि "स्वच्छ विद्यालय अभियान" कार्यक्रम के अंतर्गत देवघर जिला हेतु .....  
..... 0.5 Hp AC Solar Water Pumping System (Set) प्राप्त किया।

उक्त सोलर उपस्करों की आपूर्ति मेसर्स ..... द्वारा की गई है।

Consignee/प्राप्त कर्ता का हस्ताक्षर & Seal : .....  
(पेयजल एवं स्वच्छता विभाग के प्रतिनिधि)

दिनांक : .....

**जेडा प्रतिनिधि का प्रमाण-पत्र**

यह प्रमाणित किया जाता है कि उपर इंगित उपस्करों का निरीक्षण Specification के अनुसार प्राप्त करके उपर इंगित प्राप्त कर्ता को सुपूर्द की जा चुकी है।

आपूर्तिकर्ता का प्रतिनिधि का हस्ताक्षर एवं मुहर

जेडा प्रतिनिधि का हस्ताक्षर एवं मुहर

**Format for Quarterly O&M and CMC Report**

**NIB No: 12/JREDA/SPV/SWPS/SVA/2015-16**

[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:** Supply, Installation and Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Indigenous 0.5 Hp AC Solar Water Pumping Systems for water supply in schools under "Swachchh Vidyalaya Abhiyan" of Deoghar District, Jharkhand on Turnkey basis.

Date of Installation.....

JREDA Dispatch Order No..... Dated.....

Place of Supply.....

<b>S. N.</b>	<b>Place of Installed System</b>	<b>System Details</b>	<b>Date of Site Visit</b>	<b>O&amp;M/CMC activities undertaken by Technician</b>	<b>Name and Signature of Concerned field Officer of JREDA</b>	<b>Name and Signature of Controlling Officer of JREDA</b>
		Module No.				
		Pump with Controller No.				
		Module No.				
		Pump with Controller No.				
		Module No.				
		Pump with Controller No.				

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:



Information on Bid Capacity (works for which bids have been submitted and works which are yet to be completed) as on the date of this bid.

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[On the letterhead of Bidding Company]

**(A) Total annual volume of solar related work executed and payments received in the last five years preceding the year in which bids are invited ( Attach certificate from CA):**

Sr. No.	Financial year	Volume of solar related work (Nos./kWp)	Payments received (Rs. in lakh)
1	2010-11		
2	2011-12		
3	2012-13		
4	2013-14		
5	2014-15		

**(B) (i) Existing commitments and on-going works:**

Description of work	Place & State	Contract No. & Date	Name & address of Employer	Value of contract (Rs. in lakh)	Stipulated period of completion	Value of works remaining to be completed (Rs. in lakh)	Anticipated date of completion
1	2	3	4	5	6	7	8

- Enclose certificate (s) from Engineer's/In-charge for value of work remaining to be completed.

**(B) (ii) Works for which bids already submitted:**

Description of work	Place & State	Name & address of Employer	Estimated value of works (Rs. in lakh)	Stipulated period of completion	Date when decision is expected	Remarks, if any
1	2	3	4	5	6	7

**Assessed Available Bid capacity = [ ( A x N x 2 ) - B ]**

A = Maximum value of solar related works executed in any one year during the last five years taking into account the completed as well as works in progress.

N = Number of years prescribed for completion of the works for which bids are invited (period up to 6 months to be taken as half-year and more than 6 months as one year).

B = Value, at the current price level, of existing commitments and on-going works to be completed during the period of completion of the works for which bids are invited.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal: