

# **Bid Specifications**

**for**

**Supply, Installation, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Solar Street Lighting Systems (SSLs) with 12 W LED light, 75 Wp Module and Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand.**

**(JREDA)**

**Government of Jharkhand**

**Tender Reference No.: 10/JREDA/LED/SSLs/20-21**



**Jharkhand Renewable Energy Development Agency (JREDA)**

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

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

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**Govt. of Jharkhand**  
**Energy Department**  
**Jharkhand Renewable Energy Development Agency (JREDA)**  
3rd Floor, S.L.D.C. Building, Kusai Colony, Doranda, Ranchi-834002.  
Ph.: 0651-2491161, Fax: 0651-2491165,  
E-mail: info@jreda.com; Website: [www.jreda.com](http://www.jreda.com)

**e-Procurement Notice**

**Tender reference no.: 10/JREDA/LED/SSLS/20-21**

**Dated: 25.11.2020**

1	Name of the work	Supply, Installation, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Solar Street Lighting Systems (SSLSs) with 12 W LED light, 75 Wp Module and Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand.
2	Total quantity (Nos.)	<b>8000 Nos.</b>
3	Estimated cost (Rs.)	<b>15,52,00,000/-</b>
4	Period of Contract	<b>12 (Twelve) Months</b>
5	Completion period	<b>04 (Four) Months</b>
6	Date of publication of NIT on website: <a href="http://jharkhandtenders.gov.in">http://jharkhandtenders.gov.in</a>	<b>27.11.2020 (Friday)</b>
7	Date & time of Pre-bid meeting	<b>07.12.2020 (Monday)</b> at 2.00 P.M.
8	Last date & time for receipt of online bids	<b>21.12.2020 (Monday)</b> upto 05:00 PM
9	Submission of original copies of Bid fee & EMD (Offline)	<b>21.12.2020 and 22.12.2020</b> up to 5.00 P.M.
10	Technical Bid Opening Date	<b>23.12.2020 (Wednesday)</b> at 03:30 P.M.
11	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)
12	Contact no. of procurement officer	0651-2491163/67/61
13	Helpline no. of e-procurement	0651-2491163/67/61

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

**Sd/-**  
**Director,**  
**JREDA, Ranchi**

## Section -1

**NIB No: 10/JREDA/LED/SSLS/20-21**

### **List of Important dates & details of Bids**

1.	Name of work	Supply, Installation, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Solar Street Lighting Systems (SSLSs) with 12 W LED light, 75 Wp Module and Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand.	
2.	Tender reference no.	<b>10/JREDA/LED/SSLS/20-21</b>	
3.	Period of contract	<b>12 (Twelve) Months</b>	
4.	Completion period	<b>04 (Four) Months</b>	
5.	Mode of submission of tender	<b>Online through <a href="http://www.jharkhandtenders.gov.in">www.jharkhandtenders.gov.in</a></b>	
6.	Tentative Quantity	LED Solar Street Lighting System: <b>8000 Nos.</b> 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 estimated cost is about <b>Rs. 15.52 Crores</b>	
7.	Maximum/Minimum lot size	Maximum: <b>2000 Nos.</b> Minimum: <b>200 Nos.</b> <b>No bidder shall submit bid for quantity less than minimum lot size &amp; more than maximum lot size.</b>	
8.	Cost of Bid document (Non-refundable)	❖ Rs.10, 000/- (Rupees Ten Thousands only) for General Bidder. ❖ Rs. Nil for MSEs of Jharkhand.	
9.	Earnest Money Deposit (EMD)	For General Bidder: <b>Rs. 77,600/-</b> for the lot size of 200 Nos. LED Solar Street Lighting System (LED BASED SSLS). The bidders quoting for higher quantities are required to submit EMD in the same proportion. For MSEs of Jharkhand: <b>Nil.</b>	
10.	Date of publication of NIT on website: <a href="http://jharkhandtenders.gov.in">http://jharkhandtenders.gov.in</a>	<b>27.11.2020 (Friday)</b>	
11.	Date & time of Pre-bid meeting	<b>07.12.2020 (Monday)</b> at 2.00 P.M.	
12.	Period of downloading of bidding documents	<b>Start date: 03.12.2020</b>	<b>Time: 10.00 AM</b>
		<b>End date: 21.12.2020</b>	<b>Time: 05.00 PM</b>
13.	Bid online submission	<b>Start date: 09.12.2020</b>	<b>Time: 10.00 AM</b>
		<b>End date: 21.12.2020</b>	<b>Time: 05.00 PM</b>
14.	Submission of original copies of Bid fee & EMD (Offline)	<b>21.12.2020 and 22.12.2020</b> up to 5.00 P.M.	
15.	Technical bid opening date	<b>23.12.2020 (Wednesday) at 03:30 P.M.</b>	
16.	Authority inviting bids	Director, Jharkhand Renewable Energy Development Agency(JREDA)	
17.	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 **21.12.2020 and 22.12.2020 by 5.00 PM**. If tender fee and EMD are not received before mentioned due date and time, tender shall be considered invalid. **MSEs seeking exemption from Bid fee & EMD, shall submit documentary evidence supporting the exemption.**

Place for receiving tender fee & EMD

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

**Section -1**  
**NIB No: 10/JREDA/LED/SSLS/20-21**

**Instructions to Bidders**

Detailed instructions & documents to be furnished for online bidding

1. The guidelines to submit bid online can be downloaded from website <http://Jharkhandtenders.gov.in>
2. The interested bidders can download the bid from the website "<http://Jharkhandtenders.gov.in>".
3. To participate in bidding process, bidders have to get 'Digital Signature Certificate (DSC)' as per Information Technology Act-2000 to participate in online bidding. This certificate will be required for digitally signing the bid. Bidders can get above mention digital signature certificate from any approved vendors (CCA). Bidders, who already possess valid Digital Certificates, need not to procure new Digital Certificate.
4. The bidders have to submit their bids online in electronic format with digital Signature. The bids without digital signature will not be accepted. No proposal will be accepted in physical form.
5. Bids will be opened online as per time schedule mentioned in section 1
6. Bidders should get ready with the scanned copies of cost of documents & EMD as specified in the tender document. Before submission of online bids, bidders must ensure that scanned copy of all the necessary documents have been attached with bid.
7. Bidder have to produce the original Demand Draft towards tender fee (Bid fee) & Demand Draft/Bank Guarantee as EMD in approved form to the authority "Director, Jharkhand Renewable Energy Development Agency, Ranchi" on the date & time as mentioned in the NIT failing which bidder will be disqualified. The details of cost of documents, EMD specified in the tender documents should be the same as submitted online (scanned copies) otherwise tender will summarily be rejected.
8. Uploaded documents of valid successful bidders will be verified with the original before signing the agreement. The valid successful bidder has to provide the originals to the concerned authority. The department will not be responsible for delay in online submission due to any reason.
9. All the required information for bid must be filled and submitted online. If the bid is not found to be uploaded online in the website (<http://Jharkhandtenders.gov.in>), bid shall be rejected even though the bidder/s have submitted Bid fee & EMD. No hard copy is required to be submitted in the office of JREDA except original Bid fee & EMD.
10. Other details can be seen in the bidding documents.  
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 (in case of BG as per Annexure).
    - iii. Latest GST certificate & GST Return.
    - iv. PAN Card.
    - v. Firm's registration certificate/ Registration certificate of MSEs of Jharkhand.
    - vi. Certificate issued by Industry Dept. or MNRE for system/components manufacturing.
    - vii. Audited Balance sheet of last three years along with ITR complete set.
    - viii. Test Certificate for complete system for 12W White LED based solar street Lighting system issued By MNRE approved Test Labs.
  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: Checklist for Technical Bid.

- iii. Annexure-3: Information about the bidding firm.
  - iv. Annexure-4: Declaration by the bidder.
  - v. Annexure-5: Annual Turn-over.
  - vi. Annexure-6: Net Worth certificate.
  - vii. Annexure-7: Format for power of attorney for signing of bid.
  - viii. Annexure-8: Proof of supply/execution of Solar Street Light systems in any SNA/Govt. organization/PSU in the last seven years. Attach copy of orders & satisfactory performance/completion certificate.
  - ix. Annexure-11: Contact Person for the NIB
- 
- 3. Duly filled in & digitally signed Price Bid (.xls and .pdf).
  - 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, cannot participate in the tender.

### **Section-3**

**NIB No: 10/JREDA/LED/SSLS/20-21**

#### **Notice Inviting Bid**

**Sub: Supply, Installation, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Solar Street Lighting Systems (SSLSs) with 12 W LED light, 75 Wp Module and Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand.**

#### **Preamble:**

As part of Solar Photovoltaic Programme, JREDA invites bid for **"Supply, Installation, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Solar Street Lighting Systems (SSLSs) with 12 W LED light, 75 Wp Module and Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand"** 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 maximum lot size.**

#### **(I) The Technical Conditions: The bidder should fulfill the following Technical eligibility conditions:-**

1. The bidder should be a registered manufacturing company/Firm/ Corporation in India (including MSEs of Jharkhand) manufacturing at least one of the three (Module, Battery, Luminary) components of the Solar Street Light System. **Authorized dealers companies/firms/ corporations and subcontractors are not eligible to participate.**
2. The bidder should be a functional organization. To substantiate this claim, the bidder should submit the copy of Audited accounts for last 3 years along with Income Tax Return (ITR) complete set. These audited accounts should be duly certified by the Statutory Auditor with his stamp.
3. Registered Micro & Small Enterprises (MSEs) of Jharkhand should submit the attested copy of Registration certificate/ Udyog Aadhar/Udyam issued by the Industry Department, Govt. of Jharkhand duly verified by concerned DIC.

#### **4. Turnover Requirement:**

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

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

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

#### **5. Net worth Requirement:**

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

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

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

**6. Experience Requirement:**

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

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

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

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

7. 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 modules shall be of standard make, specifications of any reputed brand approved by MNRE having test certificates issued from **MNRE specified** test laboratories.

8. The bidder must be in possession of valid test report of LED based SSLs (complete system) from any test centre approved by MNRE.

The latest test certificate should confirm that LED based Solar Street Lighting Systems LED Luminary 12W, Module 75 Wp & Battery 12.8V 30Ah as per MNRE specifications. The test certificate issued other than section 6 of Technical Specification of this NIB or MNRE specifications will lead to outright rejection of the BID.

9. Batteries should fulfil the requirement as per specification given in the Technical Specification of the Bid. Capacity Test, Charge/Discharge efficiency, Self-Discharge should be as per MNRE requirements and valid test reports with authorization letter of the manufacturer should be uploaded as annexure. The certificate should be in a form of an undertaking letter from the manufacturer complying all the technical specifications of battery. The offered batteries shall be as per BIS of any reputed brand approved.

10. The bidder should have valid GST and PAN.

11. 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.

12. 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 from **21.12.2020 and 22.12.2020** by 5.00 PM in the office of JREDA.

13. 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 from **21.12.2020 and 22.12.2020** by 5.00 PM in the office of JREDA.

14. Agencies who have already awarded work order for supply & Installation of street light wide JREDA NIB No. 06/JREDA/LED/SSLS/19-20 but failed to supply the system till the date of issuance of this NIB are not allowed to participate in this tender, If they will Participate then their candidature will not be considered.

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

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

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

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

To encourage the new MSEs of Jharkhand who remain unsuccessful at Technical bid stage due to non-fulfillment of experience criteria only, JREDA may consider allotting up to 1000 Nos. from MSEs quota among one or more new units, who have fulfilled all the technical qualifying criteria but have no work experience in Solar Street Lighting System and are functional since the last one financial years.

## SECTION-4

### **NIB No: 10/JREDA/LED/SSLS/20-21**

#### INSTRUCTIONS TO BIDDERS

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## **Instructions to Bidders (ITB)**

### **A. General**

- 1 Scope of Bid
- 1.1 The JREDA invites bids for the work as described in these documents and referred to as "the 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, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Solar Street Lighting Systems (SSLs) with 12 W LED light, 75 Wp Module and Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand"** through funds from the Government of Jharkhand 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 for bidding.
  - 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 with certificates from the concerned officer or competent authority.
  - e) Audited reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the last three years along with ITR.
  - f) Authority to seek references from the Bidder's bankers;
  - g) Information regarding any litigation or arbitration during the last seven years in which the Bidder is involved, the parties concerned, the disputed amount, and the matter;
- 4.3 Bids from joint venture are not allowed.
- 4.4.A To qualify for award of the Contract, each bidder should meet the following criteria:

### **A. Turnover Requirement:**

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

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

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

**B. Net worth Requirement:**

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

**For MSE of Jharkhand:** Bidder should have Positive Net Worth as on 31.03.2019/20 on the basis of audited annual accounts.

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

**C. Experience Requirement:**

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

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

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

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

4.4.B (a) Each bidder must produce:

- i) 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 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 and financial failures.
- iii) Participated in the previous bidding for the same work and had quoted unreasonably high or low bid prices and could not submit 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 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 Site will be allocated to successful bidders as per the demand received, which may be across the State. The bidder shall have no claim regarding economy of scale, choice of district/region in the State. However, bidder may visit site after allocation of site.

## **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 on Bid Documents and Pre-bid Meeting:**

9.1 A prospective Bidder requiring any clarification of the bid documents may inform to the JREDA in writing at the JREDA's address indicated in the Notice Inviting Tenders. JREDA's response will be uploaded in form of corrigendum on our website [www.jreda.com](http://www.jreda.com).

9.2 Pre-bid meeting will be held on **07.12.2020 (Monday)** at 2.00 P.M. in the Conference Hall of JREDA. The bidder or his authorized representative may attend the meeting.

9.3 The purpose of such a meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

9.4 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.

9.5 Any modifications of the bid document 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.

## **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) PAN Card
- b) GST certificate.
- c) Proof of completion of similar works during the last 7 years and list of similar works in hand in the prescribed formats duly signed by the competent authority of the issuing Department.
- d) List of works for which bids already submitted.
- e) Audited financial Report for the last 3 years (upto 31/3/2019/20) 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 of batteries and latest test certificate should confirm as per MNRE specifications which are available on MNRE website. The valid test certificate should be submitted along with bid.
- k) Authorized address & contact numbers of the bidder as per instruction in the Notice Inviting Bid duly digitally signed.
- l) Undertaking of Bidder that he is able to invest minimum of cash upto 10% as defined in ITB.
- m) 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

## **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.
- 13.6 Tenderers should quote their rates considering wide variation of site conditions, variation in price of different components during the year 2020-21 and keeping the quantum and quality of work in mind. If JREDA anticipates that rate is abnormally low or high, tender may be cancelled.
- 13.7 Price bids submitted by New MSEs shall not be considered. However, to complete the tender process those MSEs have to submit price bids. They have to accept the L1 rate derived in tender for award of work.

#### **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 to the bidders for extension of 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.
- 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 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:** 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 20.2 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 process of bidding 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; however any price preference shall be in line with Jharkhand Procurement Policy 2014 for MSE bidders.

**F. Award of Contract**

**27 Award Criteria**

- 27.1 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 and 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 NIT document, Work order & subsequent amendments between JREDA and the successful Bidder. It will be signed by the JREDA and the successful Bidder after the security deposit is submitted.
- 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 (General Bidder) i.e. @1% of the allotted work order value in the form of Bank Guarantee valid for one year as per Jharkhand Procurement Policy.
- 30.3 The Security Deposit shall be refunded / released to the bidder after expiry of 60 days from the actual date of successful completion of work.
- 30.4 The Security Deposit will have to be maintained by the bidder with JREDA till the satisfactory completion of the work. If the work extends beyond the expiry date of Bank Guarantee, bidders shall submit fresh or extend the period of validity of Bank Guarantee as per the direction of JREDA, otherwise JREDA may terminate the work order and blacklist the contractor.

### **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 Payment against Installation.
- 31.2 Successful MSME bidders shall submit a Performance Guarantee @2.5% of the allotted work order value in the form of bank guarantee before release of payment against Installation.
- 31.3 The Performance Guarantee will have to be maintained by the bidder with JREDA till the completion of warrantee 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 work order.
- 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.

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

- 32.1 The LED BASED SSLS 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 as battery, electronics, Inverter, PV modules and other hardware) of LED BASED SSLS for five years from the date of installation. **PV modules shall be warranted for 25 years.** Battery should be warranted for a minimum life of 5 years. The date of CMC maintenance period shall begin on the date of actual commissioning of LED BASED SSLS. It is mandatory for the contractor to carry out CMC regularly and submit report to JREDA quarterly. 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. If the successful bidder is found to be not doing CMC work continuously for two quarters, then bidders performance guarantee will be forfeited, work order shall be cancelled and bidder shall be blacklisted. **For carrying out effective and smooth maintenance of the Solar Street Lighting Systems, reasonable number of service centers must be established by the successful bidders 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 current, 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 Photovoltaic Power Plant. 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 street lighting 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 per system beyond three days of reporting of such complaint.

### **35 Advances**

- 35.1 The JREDA will not provide any 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.

**37 Timeline/ Completion Period:**

The time of completion shall be adhered as per the timeline defined in the table below:

<b>Sr. No.</b>	<b>Particular</b>	<b>Timeline (in Days)</b>
1	Letter of award	<b>X Day</b>
2	Submission of Security Deposit and Signing of Agreement	<b>Within X+15 Days</b>
3	PDI Offer	<b>X+40 Days</b>
4	Issue of Dispatch Clearance	<b>X+60 Days</b>
5	Supply, installation & Commissioning of SSLS at Sites	<b>X+120 Days</b>

## Section-5

### **General Terms & Conditions**

#### **NIB No: 10/JREDA/LED/SSLS/20-21**

##### **1. Introduction:**

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

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

##### **2. Scope of work:**

The Scope of work for **LED based Solar Street Lighting System** includes **"Supply, Installation, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Solar Street Lighting Systems (SSLSs) with 12 W LED light, 75 Wp Module and Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand"** 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. Bid documents:**

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

##### **4. Price:**

The bidder shall quote his price as per schedule of items of work. The contract price rates shall be firm and binding and shall not be subject to any variation except for statutory variation of taxes and duties during the contractual completion period. ***The price shall be inclusive of all taxes, duties and levies including GST and 5 years CMC etc. as on the opening date of tender.*** The price shall also include designing, manufacturing, inspection, supply, transport, insurance, handling etc. All applicable charges for taking necessary clearance such as commercial tax, road permit etc. wherever required are also deemed to be included in the contract price.

##### **5. 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. Payment terms and conditions:**

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

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

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

## 7. Dispatch Instructions:

All items/equipments shall be subject to **Pre-Dispatch Inspection (PDI)** by JREDA or its authorized representatives at the manufacturing site before their dispatch. The sample size for PDI shall be in accordance with BIS norms or @ 2% of the quantity offered, whichever is lesser. The manufacturing site must have sufficient testing facilities. The manufacturer will submit **test report** with regard conformity to technical specifications for the items to be dispatched to work site of JREDA. However, equipments will be Dispatched from the manufacturing site only after the receipt of "**Dispatch Clearance**" from JREDA after acceptance of test report.

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

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

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

After finalization of the tender JREDA authority will take decision for issuing work order for the work under scope to the successful bidder; and thereafter on the basis of demands received in the JREDA office, request for supply/ installation will be communicated. Then within 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. 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. 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. Insurance:**

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

**11. Assignment/ Sub-letting:**

The Manufacturer shall not assign or sublet in whole or part of the work, and its obligations to any third party to perform under the order/contract. However, the manufacturer can procure those materials from any other manufacturer, which are not manufactured by the firm.

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. 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/BOQ or not.

**13. 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. 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. Income Tax / GST:**

Without prejudice to the obligations of the supplier under law, any income tax and GST 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. Training Program, After Sales Service and Availability of Spare Parts:**

- 16.1. The responsibility of organizing training program for LED based SSLS 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 LED based SSLS. Printed leaflet/literature should be made available in Hindi by the Supplier regarding the operation and maintenance of their LED based SSLS.
- 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 warrantee period.

**17. 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, lightening, 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. Cancellation of Work Order:**

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

- (a) If the contractor/supplier is found defaulter for delayed supply, installation & commissioning or failure to deliver satisfactory performance or supply of substandard materials.
- (b) If the contractor/supplier fails to comply with the provision(s) of the contract including the responsibilities to fulfill the 5 years CMC as per the provisions mentioned.
- (c) If the Contractor/vendor is involved in any action of moral turpitude.
- (d) While taking decisions for blacklisting of the bidder, his past performance shall also be taken into account.

**19. Jurisdiction of the Court:**

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



**Section-6**  
**Technical Specification for**  
**LED SOLAR STREET LIGHTING SYSTEM**

**NIB No: 10/JREDA/LED/SSLS/20-21**

A standalone solar photovoltaic street lighting system (SLS) is an outdoor lighting unit used for illuminating a street or an open area. The Solar Street Lighting System consists of solar photovoltaic (SPV) module, a luminaire, storage battery, control electronics, inter-connecting wires/cables, module mounting pole including hardware and battery box. The luminaire is based on White Light Emitting Diode (W-LED), a solid state device which emits light when electric current passes through it. The luminaire is mounted on the pole at a suitable angle to maximize illumination on the ground. The PV module is placed at the top of the pole at an angle facing south so that it receives solar radiation throughout the day, without any shadow falling on it. A battery is placed in a box attached to the pole.

Electricity generated by the PV module charges the battery during the day time which powers the luminaire from dusk to dawn. The system lights at dusk and switches off at dawn automatically.

**BROAD PERFORMANCE SPECIFICATIONS**

PV Module	<b>Only indigenous modules shall be used in the project.</b> 75 Wp under STC
Battery	Minimum 12.8V, 30 AH capacity Lithium Ferro Phosphate battery.
Light Source	<ul style="list-style-type: none"> <li>• White Light Emitting Diode (W-LED)</li> <li>• 12 Watt, W-LED luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser.</li> <li>• LED Chip should be compliance to IES: LM-80 (Approved Method for Measuring Lumen Maintenance of LED Light Sources and LED lumen depreciation time to L70). Test report for same should be submitted.</li> </ul>
Light Out put	<p>The luminaire must use high efficacy W-LED with minimum 135 lumens per watt (and UV free). [A certificate to be submitted by the System supplier to the Test Lab during certification]</p> <p><b>For single light level:</b></p> <p>Minimum 24 Lux when measured at a point 4 meters below the light. The illumination should be uniform without dark bands or abrupt variations, and soothing to the eye. Higher light output will be preferred.</p> <p><b>For Multiple Light levels:</b></p> <p>The luminaire should have two levels of light to take care of different lighting needs during the night. Minimum 24 Lux when measured at a point 4 meters below the light (at "High" illumination level). The illumination Should be uniform without dark bands or abrupt variations. Minimum 12 Lux at lower illumination level.</p> <p><b>(Higher light output will be preferred)</b></p> <p>The luminaire shall be tested for Electrical, Photometry and Color parameters as per IES LM-79:2008 or IS: 16106:2012 for following performance parameters like:</p> <ol style="list-style-type: none"> <li>1) Total luminous flux: <math>\geq 1500</math> lm.</li> <li>2) Luminous efficacy (i.e. system efficacy): <math>\geq 125</math> lm/W.</li> <li>3) Color Temperature: Between 5500 K to 6500 K.</li> <li>4) CRI <math>\geq 70</math></li> <li>5) Luminous intensity distribution should follow the batwing patterns in polar curves.</li> <li>6) Require validation report using .ies file, which is generated during minous intensity distribution test and using maintenance factor 0.9 and pole height of 4m., Road width 5m and Pole span 15m. The average illuminance level and uniformity should comply with requirement as per IS 1944, wherever applicable.</li> <li>7) The luminaire should be tested for all type tests as per IS 10322 Part 5 Sect 3 or IEC 60598-2-3 standards.</li> </ol>

Mounting of light	Pole height 5 m above the ground level and 1 m below the ground. Luminaire shall be at least 4.5 m above the ground level.
Electronics Efficiency	Overall total Efficiency of the Electronics should be Minimum 90%
Autonomy	3 days or Minimum 24 operating hours per permissible Discharge
Duty cycle	Dusk to dawn First 4 Hours full light (Min. 24 Lux), rest of the time at lower light (50%, Min. 12 Lux) level. (Higher light output will be preferred)
Ingress Protection – IP	Optical and Control gear compartment - IP 65 / IP 66
Impact resistance of casing	≥ IK 08
Radiated Emission Test	As per CISPR-15
ESD (Electro Static Discharge) and Radiated susceptibility test	As per IEC 61547

#### **TECHNICAL DETAILS:**

##### **PV MODULE:**

- i. Indigenously manufactured PV module should be used.
- ii. The PV module should have crystalline silicon solar cells and must have a certificate of testing conforming to IEC 61215 Edition II / BIS 14286 from an NABL or IECQ accredited Laboratory.
- iii. The power output of the module(s) under STC should be a minimum of 75 Wp.
- iv. The open circuit voltage\* of the PV modules under STC should be at least 21.0 Volts.
- v. The module efficiency should not be less than 14 %.
- vi. The terminal box on the module should have a provision for opening it for replacing the cable, if required.
- vii. There should be a Name Plate fixed inside the module which will give:
  - a. Name of the Manufacturer or Distinctive Logo.
  - b. Model Number
  - c. Serial Number
  - d. Year of manufacture
- viii. A distinctive serial number starting with NSM will be engraved on the frame of the module or screen printed on the tedlar sheet of the module.

**\*The load voltage and Voc conditions of the PV modules are not applicable for the system having MPPT based charge controller.**

##### **BATTERY:**

- i. Minimum 12.8V, 30 AH capacity Lithium Ferro Phosphate Battery.
- ii. Battery pack should have proper 'Battery management System' (BMS) for cell balancing, over charge and over temperature protection.
- iii. Battery should conform to the latest BIS/ International standards.

##### **LIGHT SOURCE:**

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

- vi. The temperature of heat sink should not increase more than 20°C above ambient temperature during the dusk to dawn operation.

#### **ELECTRONICS:**

- i. The total electronic efficiency should be at least 90%.
- ii. Charge controller should be MPPT Type.
- iii. Electronics should operate at an appropriate voltage suitable for proper charging of the battery.
- iv. No Load current consumption should be less than 20 mA.
- v. The PV module itself should be used to sense the ambient light level for switching ON and OFF the lamp.
- vi. The PCB containing the electronics should be capable of solder free installation and replacement.
- vii. Necessary lengths of wires/cables, switches suitable for DC use and fuses should be provided.

#### **ELECTRONIC PROTECTIONS:**

- i. Adequate protection is to be incorporated under "No Load" conditions e.g. when the lamp is removed and the system is switched ON.
- ii. The system should have protection against battery overcharge and deep discharge conditions.
- iii. Fuse should be provided to protect against short circuit conditions.
- iv. Protection for reverse flow of current through the PV module(s) should be provided.
- v. Electronics should have temperature compensation for proper charging of the battery throughout the year.
- vi. Adequate protection should be provided against battery reverse polarity.
- vii. Load reconnect should be provided at 80% of the battery capacity status.

#### **MECHANICAL COMPONENTS:**

- i. A corrosion resistant metallic frame structure should be fixed on the pole to hold the SPV module.
- ii. The frame structure should have provision so that the module can be oriented at the suitable tilt angle.
- iii. Pole should be Hot dip galvanized pipe as per IS1161 & IS4736 i.e. Class B.
- iv. The height of the pole should be 5 meters above the ground level, after grouting and final installation. The total height of pole should be 5.75 meter ( **fixed in 1:2:4 concrete mix, size 0.75 M deep in ground x 45 cm x 45 cm wide, with six inch top muffing with concrete (1:2:4) above ground level & duly painted as per standard norms). The G.I. base plate (15" x 15" x 1 CM thickness) shall be welded properly with the base end of the pole which will be checked at the time of PDI. All the poles shall be numbered in sequence for each cluster/location with respect to each consignee as per directions from JREDA.**
- v. The pole should have the provision to hold the luminaire.
- vi. The Luminaire housing should be water proof (IP 65) and should be painted with a corrosion resistant paint and should be housing the battery.
- vii. Proper arrangement to emboss logo of State government and JREDA at visible height.

**INDICATORS:**

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

**QUALITY AND WARRANTY:**

- i. The street lighting system (including the battery) will be warranted for a period of five years from the date of supply.
- ii. **The PV module(s) will be warranted for a minimum period of 25 years from the date of supply.** The PV modules must be warranted for their output peak watt capacity, which should not be less than 90% at the end of Ten (10) years and 80% at the end of Twenty five (25) years.
- iii. The Warranty Card to be supplied with the system must contain the details of the system.

**OPERATION and MAINTENANCE MANUAL:**

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

- Basic principles of Photovoltaics.
- A small write-up (with a block diagram) on Solar Street Lighting System - its components, PV module, battery, electronics and luminaire and expected performance.
- Type, Model number, Voltage & capacity of the battery, used in the system.
- The make, model number, country of origin and technical characteristics (including IESNA LM-80 report) of W-LEDs used in the lighting system.
- About Charging and Significance of indicators.
- Clear instructions about erection of pole and mounting of PV module (s) and lamp housing assembly on the pole.
- Clear instructions on regular maintenance and troubleshooting of the Solar Street Lighting System.
- DO's and DONT's.
- Name and address of the contact person for repair and maintenance, in case of non-functionality of the solar street lighting system.

**Technical Requirement/Standards:**

Item / System	Applicable BIS /Equivalent IEC Standard Or MNRE Specifications	
	Standard Description	Standard Number
Solar PV Systems	Crystalline Silicon Terrestrial PV Modules	IEC 61215 / IS14286/ IS 16077 Test Certificates / Reports from IECQ / NABL accredited laboratory for relevant IEC / equivalent BIS standard. IS/IEC 61730 (PART I & II)
Electronics	Safety Qualification	EN50530
Charge Controller/MPPT Units and Protections		IEC IEC 62093 Equivalent BIS Std.
Storage Batteries	General Requirements & Methods of Testing	IS 16270 IS 16046:2015/ equivalent BIS standard
Cables	General Test and Measuring Method PVC insulated cables for working voltage up to and including 1100 V UV resistant for outdoor Installation	IEC 60189 IS 694/ IS 1554 IS/IEC 69947
Junction Boxes /Enclosures for Inverters/Charge Controllers/Luminaries	General Requirements	IEC 62208 IP 65
LED Lights & Luminaires	LED performance Luminary performance Driver safety General Lighting - LEDs and LED modules – Terms and Definitions Self-Ballasted LED Lamps for General Lighting Services Led Modules for General Lighting Luminaires Performance	LM -80-08 LM 79-08 IEC62384 IS 16101  IS 16102  IS 16103 IS 16107
Protection	Over charge Deep discharge protection for battery Reverse Polarity for panel and battery	

**Format for Covering Letter**

**NIB No: 10/JREDA/LED/SSLS/20-21**

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

To,

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

Sub: **Supply, Installation, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Solar Street Lighting Systems (SSLSs) with 12 W LED light, 75 Wp Module and Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand.**

Sir,

We are hereby submitting our offer in full compliance with the terms and condition of the above NIB No. We have submitted the requisite amount of Tender Fee in form of Demand Draft & "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:

***Note: MSME bidders of Jharkhand must submit necessary documents for claiming exemption of EMD and Bid fee.***

**Undertaking by MSEs of Jharkhand for availing preferential treatment**

**NIB No: 10/JREDA/LED/SSLS/20-21**

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

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

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

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

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

**Check List for Technical bid****NIB No: 10/JREDA/LED/SSLS/20-21**

S. No.	Particulars	Uploaded Yes / No	Page No.
1	Covering Letter as per <b>Annexure-1</b> .		
2	Information about the Bidder as per <b>Annexure-3</b> .		
3	The bidder is registered PV System Integrator or Manufacturing company of SPV cells or PV Modules or Battery or PV System Electronics confirming to relevant National/International Standards (Attach relevant certificates of Industry Department or MNRE).		
4	To indicate the functionality of the firm attach the Audited Account of last three Years ending 31.03.2018/19 of the firm duly certified by statutory Auditor with ITR.		
5	Registration certificate of MSES of Jharkhand State (Enclose certificate issued By Industry Department, Govt. of Jharkhand).		
6	The proof of supply of solar system in any SNA/Govt. organization/PSU in the Last seven years as per <b>Annexure-8</b> to indicate the quantity already supplied. Attach copy of the order and certificate indicating its successful execution.		
7	IEC/IS certificates for Solar PV Module (Attach relevant certificate).		
8	Test certificate for solar Street Lighting System from the authorize test centers of MNRE (attach valid test certificate issued in the name of bidder) as per MNRE specification or section 6 of technical specification of this NIB.		
9	Certificate of Battery (Attach valid certificate).		
10	A copy of valid GST/ TIN registration certificate		
11	Average Annual Turnover for last three years ending 31.03.2020/21 (Attach average annual turnover certificate as per <b>Annexure-5</b> )		
12	Net worth as on 31.03.2020/21 (Attach proof & Net worth certificate as per <b>Annexure-6</b> )		
13	Details of tender document fee (Bank Draft No. and Date)		
14	Details of Earnest money Deposit (Bank Guarantee/DD Number & Date)		
15	Technical Details as per <b>Annexure-9</b> .		
16	Declaration by Bidder as per <b>Annexure-4</b> .		
17	Warranty Card as per <b>Annexure-15</b>		
18	Authority Letter for Signing Bid Document & Attending Bid Opening Meeting as per <b>Annexure-8</b>		

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

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

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:



**Information About The Bidding Firm****NIB No: 10/JREDA/LED/SSLS/20-21**

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

SL. No.	Particulars	
1.	Name of the Bidder	
2.	Address of Bidder with Telephone, Fax, email	
3.	Address of the Registered Office	
4.	Address of the works	
5.	GPS Co-ordinate of Registered Office	
6.	GPS Co-ordinate of Factory Campus	
7.	Name & Designation of Authorized Signatory for Correspondence (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.	GST Number (Attach proof)	
12.	Specify the Item Originally Manufactured by the Bidder (SPV module/Electronics/Battery)	
13.	Registration Number of the firm/co. (Copy of Registration Certificate issued by Industry Department)	
14.	Details of in-house testing facility (Attach Proof)	
15.	Office/ Dealer and Service network in Jharkhand with TIN No.(Give details)	
16.	Quoted quantity	
17.	Particulars of Earnest Money	
18.	Place where Materials will be Manufactured	
19.	Place where Materials will be Available for Inspection	
20.	Other details and remarks, if any	

Yours faithfully,

(Signature of Authorized Signatory)  
 Name  
 Designation  
 Company seal

**Declaration by the Bidder**

**NIB No: 10/JREDA/LED/SSLS/20-21**

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

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

1. The Bidder is fully aware of all the requirements of the tender document and agrees with all provisions of the tender document.
2. The Bidder is capable of executing and completing the work as required in the tender.
3. The Bidder accepts all risks and responsibilities directly or indirectly connected with the performance of the tender.
4. The Bidder has no collusion with any employee of JREDA or with any other person or firm in the preparation of the bid.
5. The Bidder has not been influenced by any statement or promises of JREDA or any of its employees, but only by the tender document.
6. The Bidder is financially solvent and sound to execute the work.
7. The Bidder is sufficiently experienced and competent to perform the contract to the satisfaction of JREDA.
8. The information and the statements submitted with the tender are true.
9. The Bidder is familiar with all general and special laws, acts, ordinances, rules and regulations of the Municipal, District, State and Central Government that may affect the work, its performance or personnel employed therein.
10. The Bidder has not been debarred or blacklisted by any SNA/ Government Dept. /PSU etc.
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: 10/JREDA/LED/SSLS/20-21**

[On the letterhead of Bidding Company]

To,

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

Dear Sir,

Sub: **Supply, Installation, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Solar Street Lighting Systems (SSLSs) with 12 W LED light, 75 Wp Module and Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand.**

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

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

**UID No.:** .....

*Authorised Signatory*  
(Power of Attorney holder)

*Statutory Auditor*  
(Stamp & Signature)

**Format For Financial Requirement - Net Worth Certificate****NIB No: 10/JREDA/LED/SSLS/20-21**

[On the letterhead of Bidding Company]

To,

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

Dear Sir,

Sub: **Supply, Installation, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Solar Street Lighting Systems (SSLSs) with 12 W LED light, 75 Wp Module and Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand.**

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

<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 2019/20	

**UID No.:** .....

*Authorised Signatory*  
(Power of Attorney holder)

*Statutory Auditor*  
(Stamp & Signature)

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

**NIB No: 10/JREDA/LED/SSLS/20-21**

**POWER OF ATTORNEY**

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

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

as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our bid for **NIB No: 10/JREDA/LED/SSLS/20-21**, including signing and submission of all documents and providing information / Bids to Jharkhand Renewable Energy Development Agency, representing us in all matters before [Insert Name], and generally dealing with Jharkhand Renewable Energy Development Agency in all matters in connection with our bid for the said Project.

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

For

\_\_\_\_\_Signature (Name, Designation and Seal)

Accepted by

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

(Name, Title and Address of the Attorney)

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

**Details of Orders Received and Executed in Last 7 Years****NIB No: 10/JREDA/LED/SSLS/20-21**

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

<b>SL. No.</b>	<b>Name of Agency/ Organization</b>	<b>Purchase Order No., Date &amp; Ordered Qty.</b>	<b>Name of Model</b>	<b>Delivery Schedule</b>	<b>Date of Full Supply with letter no. &amp; date of the performance certificate</b>	<b>Page number of the Work order/ purchase order submitted</b>	<b>Page number of the performance certificate submitted</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 with page number. Proof of work order/purchase order and corresponding performance certificate should be submitted/enclosed in the bid. Non submission of the work orders and corresponding performance certificate will be treated as no experience.

**Price Bid (To be submitted in.pdf file with price bid)****NIB No: 10/JREDA/LED/SSLS/20-21**

Sub: **Supply, Installation, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Solar Street Lighting Systems (SSLSs) with 12 W LED light, 75 Wp Module and Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand.**

S. No.	Description	Quantity	Unit	Unit Rate (in Rs.)	Amount (in Rs.)
1	2	3	4	5	6
1	Solar PV Module, 75 Wp		Per Wp		
2	Battery, Li Ferro Phosphate batteries of Minimum 12.8V , 30AH Capacity		1 Set		
3	Luminaire with all electronic accessories Including charge controller.		1 Set		
4	Pole with battery box		1 Set		
5	Installation of the system including fixing of pole in the ground.		1 Set		
6	Any other cost/ charges.		.....		
7	CMC (10% of the total cost of system)		1 Set		
<b>Total</b>					

- 1 Above quoted price for LED based SSLS 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 LED based SSLS 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 Deposit**

**NIB No: 10/JREDA/LED/SSLS/20-21**

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

To,

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

WHEREAS ..... (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.:" **10/JREDA/LED/SSLS/20-21**.
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. : **10/JREDA/LED/SSLS/20-21** in this regard, shall be final and binding on us and we shall not be  
entitled to question the same.
3. Notwithstanding anything contained in the foregoing, our liability under this Guarantee shall be restricted to  
Rs. .... (Rupees ..... only).
4. This Guarantee shall remain valid and in full force and effect up to ..... (Date) and shall expire thereafter  
unless an intimation is given to the Bank by you earlier in writing discharging us from our obligation under this  
Guarantee.



5. We shall not revoke this Guarantee during its currency except by your consent in writing.
6. This Guarantee shall not be affected by any change in the constitution of the 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 .....

.....

**Contact Person for the NIB****NIB No: 10/JREDA/LED/SSLS/20-21**

[On the letterhead of Bidding Company]

<b>1</b>	Contact Person name for the NIB	
<b>2</b>	Designation	
<b>3</b>	Contact No. (phone & mobile)	
<b>4</b>	Fax No.	
<b>5</b>	e-mail ID	
<b>6</b>	Corresponding address with pin code	
<b>7</b>	Remarks	

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

**Certificate of Delivery of LED Based Solar Street Lighting Systems received from the Consignee as Proof of Compliance by the Supplier**

**NIB No: 10/JREDA/LED/SSLS/20-21**

**Certificate**

Name of Consignee:....., Designation:-.....

Name of Department:.....

Address of Department:.....

.....

Certified that we have received the following materials for installation of .....Nos. of LED Based Solar Street Lighting Systems:

1. Serial nos. of SPV Modules (75Wp) & Make:-----
2. Serial nos. of Batteries (30 AH) & Make:.....
3. Serial nos. of LED Luminaries (12W) & Make:.....
4. Serial nos. of Charge Controller & Make:.....
5. Other materials:.....

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

Signature of Consignee along with Seal/ JREDA Official:.....

Date.....

**Certificate of JREDA Representative**

Certified that above mentioned materials have been inspected as per the specification and above materials handed over to the Consignee.

Signature & Seal of Supplier

Signature & Seal of JREDA Representative

**Certificate of Installation of LED Based Solar Street Lighting Systems received from the Consignee as Proof of Compliance by the Supplier**

**NIB No: 10/JREDA/LED/SSLS/20-21**

**Certificate**

Name of Consignee:....., Designation:-.....

Name of Department:.....

Address of Department:.....

.....

Certified that M/s ..... has successfully installed .....Nos. of LED Based Solar Street Lighting Systems on..... and are in working condition:

1. Serial nos. of SPV Modules (75Wp) & Make:-----
2. Serial nos. of Batteries (30 AH) & Make:.....
3. Serial nos. of LED Luminaries (12W) & Make:.....
4. Serial nos. of Charge Controller & Make:.....
5. Other materials:.....

Signature of Consignee along with Seal/ JREDA Official:.....

Date.....

**Certificate of JREDA Representative**

Certified that above LED Based Solar Street Lighting Systems have been successfully installed and are in working conditions.

Signature & Seal of Supplier

Signature & Seal of JREDA Representative

**Format for Quarterly O&M and CMC Report****NIB No: 10/JREDA/LED/SSLS/20-21**

[On the letterhead of Bidding Company]

To,

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

Dear Sir,

Sub: **Supply, Installation, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of Solar Street Lighting Systems (SSLSs) with 12 W LED light, 75 Wp Module and Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand.**

Date of Installation.....

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

Place of Supply.....

Name of Technicians:.....

Period of CMC:.....

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

(Signature of Consignee)

Name:

Designation:

Seal:

Signature of Agency with Seal

Signature of JREDA Representative

**Warranty Card****NIB No: 10/JREDA/LED/SSLS/20-21**

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

1.	Name & Address of the Manufacturer/ Supplier of the System	
2.	Name & Address of the Purchasing Agency	
3.	Date of Supply of the System	
4.	Details of PV Module(s) Supplied in the System	
	(a) Name of the Manufacturer	
	(b) Make	
	(c) Model	
	(d) Serial No.	
	(e) Wattage of the PV Module(s) under STC	
	(f) Guarantee Valid Up To	
5.	Details of Battery	
	(a) Name of the Manufacturer	
	(b) Make	
	(c) Model	
	(d) Batch/Serial No(s).	
	(e) Month & Year of Manufacture	
	(f) Rated V & AH Capacity at C/20 or C/10 Rated at 27°C	
	(g) Guarantee Valid Up To	
6.	Details of Electronics & Other BOS Items	
	(a) Name of the Manufacturer	
	(b) Make	
	(c) Model	
	(d) Serial No(s).	
	(e) Month & Year of Manufacture	
	(f) Guarantee Valid Up To	
7.	Designation & Address of the Person to be Contacted for Claiming Warranty Obligations	

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

**Filling Instructions:**

1. The LED BASED SSLS 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.