

## CORRIGENDUM

In the light of pre-bid meeting held on **05.08.2019(Monday)** & suggestions received from the prospective bidders, JREDA has decided to make following amendments in the NIB No. **06/JREDA/LED/SSLS/19-20** for Supply, Installation, Testing & Commissioning including 5 years Comprehensive Maintenance Contract (CMC) of LED Solar Street Lighting Systems (SSLs) with Lithium Ferro Phosphate Battery under Solar Photovoltaic Programme on Turnkey basis across the state of Jharkhand:

Section/ Annexure	Original Criteria		Read as/ Amendments/Addendums	
<b>e-procurement notice</b>	Last date & time for receipt of online bids	<b>19.08.2019 (Monday)</b> upto 05:00 PM	Last date & time for receipt of online bids	<b>04.09.2019 (Wednesday)</b> upto 05:00 PM
	Submission of original copies of Bid fee & EMD (Offline)	<b>19.08.2019 and 20.08.2019</b> up to 5.00 P.M.	Submission of original copies of Bid fee & EMD (Offline)	<b>04.09.2019 and 05.09.2019</b> up to 5.00 P.M.
	Technical Bid Opening Date	<b>21.08.2019 (Wednesday)</b> at 03:00 P.M.	Technical Bid Opening Date	<b>06.09.2019 (Friday)</b> at 03:00 P.M.
<b>Section-3</b>	<b>Page no. 07 of the NIB/ Notice Inviting Bid:</b>		<b>Page no. 07 of the NIB/ Notice Inviting Bid:</b>	
	<p>(I) The Technical Conditions: The bidder should fulfill the following Technical eligibility conditions:-</p> <p>1. The bidder should be:</p> <p>(a) MNRE approved Channel Partner/ MNRE approved manufacturer/ MNRE approved PV System integrator</p> <p style="text-align: center;">or</p> <p>(b) a registered manufacturing company/Firm/ Corporation in India (including MSEs of Jharkhand) manufacturing at least one of the major components of the Solar Street Light System. <b>Authorized dealers companies/firms/ corporations and subcontractors are not eligible to participate.</b></p>		<p>(I) The Technical Conditions: The bidder should fulfill the following Technical eligibility conditions:-</p> <p>1. The bidder should be:</p> <p>(a) MNRE approved manufacturer/ MNRE approved PV System integrator</p> <p style="text-align: center;">or</p> <p>(b) a registered manufacturing company/Firm/ Corporation in India (including MSEs of Jharkhand) manufacturing at least one of the major components of the Solar Street Light System or <b>PV System Integrator duly certified by DIC or concerned Industry Department. Authorized dealers companies/firms/ corporations and subcontractors are not eligible to participate.</b></p>	

<p>2. Registered Micro &amp; Small Enterprises (MSEs) of Jharkhand should submit the attested copy of Registration certificate/ Udyog Aadhar issued by the Industry Department, Govt. of Jharkhand.</p>	<p>2. "Micro &amp; Small Enterprises (MSEs) of Jharkhand should be registered with the Directorate of Industries/District Industries Centre, Industrial Area Development Authority and National Small Industries Corporation Limited or any other body specified by Directorate of Industries, Jharkhand Govt. from time to time and other industrial units/enterprises which have submitted IEM and been issued Date of Production (DOP) certificate by GM, DIC/MD, Industrial Area Development Authority/Director, Industries, GoJ</p> <p style="text-align: center;">or</p> <p>MSEs having Udyog Aadhar Number issued by Ministry of Micro, Small and Medium Enterprises, GoI duly verified, whether unit is existing/functional and doing regular production at what capacity by GM, DIC/MD, Industrial Area Development Authorities/Director, Industries, GOJ"</p> <p>MSEs units/bidder has to submit relevant document to substantiate above claim.</p> <p>MSEs of Jharkhand State availing preferential treatment should fulfill all the criteria as per Clause-3.0 (Applicability) of Jharkhand Procurement Policy 2014 and its amendment thereof and shall submit an undertaking with respect to (i) to (iv) of Clause 3.0 including a categorical statement that the products/services being supplied to JREDA has been manufactured/created by the unit located in Jharkhand only, giving details of batch no./date or any other identifiable tag as per prevalent established practice and will have to submit compulsorily duly signed copy of Form GSTR-9C (For units having aggregate yearly turnover of more than 2 Crores) as prescribed under JGST Act-2017.</p>
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<p><b>4. Turnover Requirement:</b></p> <p>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 31.03.2018/19 on the basis of audited annual accounts.</p> <p>For MSME of Jharkhand: Bidder should have the average Annual Turnover of 10% of Bid Capacity derived from the last three financial years ending on 31.03.2018/19 on the basis of audited annual accounts.</p> <p><b>The certificate should be issued by CA who has performed audit of accounts with UID no. as per the Performa given at Annexure-5</b></p> <p><b>6. Experience Requirement:</b></p> <p>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 System to any SNA / Govt. Organization / PSU in the last seven years ending up to date of advertisement of this tender.</p> <p>For MSEs of Jharkhand: Bidder should have cumulative experience of executing contracts of supply of at least 10% of the quoted quantity of Solar Street Lighting System to any SNA / Govt. Organization / PSU in the last seven years ending up to date of advertisement of this tender.</p> <p><b>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.</b></p>	<p><b>4. Turnover Requirement:</b></p> <p>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 31.03.2018/19 on the basis of audited annual accounts.</p> <p>For MSEs of Jharkhand: No minimum annual turnover required. However, bidders have to submit average annual turnover of financial year ending on 31.03.2018/19 on the basis of audited annual accounts in prescribed format.</p> <p><b>The certificate should be issued by CA who has performed audit of accounts with UID no. as per the Performa given at Annexure-5</b></p> <p><b>6. Experience Requirement:</b></p> <p>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 System to any SNA / Govt. Organization / PSU in the last seven years ending up to date of advertisement of this tender.</p> <p>For MSEs of Jharkhand: No work experience required. However, bidder has to submit experience of executing contracts of supply of Solar Street Lighting System to any SNA / Govt. Organization / PSU in the last seven years ending up to date of advertisement of this tender.</p> <p><b>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.</b></p>
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<p><b>Section-3</b></p>	<p><b>Page no. 09 of the NIB/ Notice Inviting Bid/ Empanelment Procedure after opening of Financial Bid:</b></p> <p>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.</p> <p>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.</p> <p>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 &amp; having running production unit in the State and should fulfill all the criteria as defined in Jharkhand Procurement Policy 2014.</p> <p>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.</p> <p>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.</p>	<p><b>Page no. 09 of the NIB/ Notice Inviting Bid/ Empanelment Procedure after opening of Financial Bid:</b></p> <p>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.</p> <p>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.</p> <p>Allocation of the quantity to MSEs registered in Jharkhand will be made as per the provisions of Jharkhand Procurement Policy 2014 and amendments thereof. MSEs of Jharkhand should be functional &amp; having running production unit in the State and should fulfill all the criteria as defined in Jharkhand Procurement Policy 2014.</p> <p>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.</p> <p>MSEs of Jharkhand who have no experience in solar street lighting system may be considered for allotting up to 1000 Nos. from MSEs quota who are functional since the last one financial year. Efforts will be made to distribute the purchase order equitably among all the participating MSEs who accepts lowest price quoted in tender (L1) keeping in view their production capacity.</p>
<p><b>Section-6</b></p>	<p><b>Page no. 24 of the NIB Technical Specification for LED SOLAR STREET LIGHTING SYSTEM:</b></p> <p>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</p>	<p><b>Page no. 24 of the NIB Technical Specification for LED SOLAR STREET LIGHTING SYSTEM:</b></p> <p>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</p>

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.

<b>BROAD PERFORMANCE SPECIFICATIONS</b>	
PV Module	<b>Only indigenous modules shall be used in the project.</b> 40 Wp under STC
Battery	Li Ferro Phosphate batteries of Minimum capacity of 160 Wh.
Light Source	<ul style="list-style-type: none"> <li>White Light Emitting Diode (W-LED)</li> <li>7 Watt (Max.), W-LED luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser</li> </ul>
Light Out put	Minimum 16 Lux when measured at the periphery of 4 meter diameter from a height of 4 meter. The illumination should be uniform without dark bands or abrupt variations, and soothing to the eye. Higher light output will be preferred.
Mounting of light	Pole mounted, Minimum 5 meters above the ground level
Electronics Efficiency	Minimum 85% total
Autonomy	3 days or Minimum 24 operating hours per permissible Discharge
Duty cycle	Dusk to dawn

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.

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.

<b>BROAD PERFORMANCE SPECIFICATIONS</b>	
PV Module	<b>Only indigenous modules shall be used in the project.</b> 40 Wp under STC
Battery	Li Ferro Phosphate batteries of Minimum capacity of 160 Wh.
Light Source	<ul style="list-style-type: none"> <li>White Light Emitting Diode (W-LED)</li> <li>7 Watt (Max.), W-LED luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser</li> </ul>
Light Out put	Minimum 16 Lux when measured at the periphery of 4 meter diameter from a height of 4 meter. The illumination should be uniform without dark bands or abrupt variations, and soothing to the eye. Higher light output will be preferred.
Mounting of light	Pole mounted, Minimum 5 meters above the ground level
Electronics Efficiency	Minimum 85% total
Autonomy	<b>Deleted.</b>
Duty cycle	Dusk to dawn

**MPPT based Charge Controller will be preferred.**

<p><b>Section-6</b></p>	<p><b>Page no. 25 of the NIB/ Technical Specification for LED SOLAR STREET LIGHTING SYSTEM/ Technical Details:</b></p> <p><b>Electronics:</b></p> <p>(ii) Electronics should operate at 12 V and should have temperature compensation for proper charging of the battery throughout the year.</p> <p><b>Mechanical Components:</b></p> <p>(iii) The pole should be made of Galvanised Iron (GI) pipe.</p> <p><b>Technical Requirement/Standards:-</b></p> <p>Electronics-EN50530</p>	<p><b>Page no. 25 of the NIB/ Technical Specification for LED SOLAR STREET LIGHTING SYSTEM/ Technical Details:</b></p> <p><b>Electronics:</b></p> <p>(ii) Electronics should operate at <b>12.8 V and</b> should have temperature compensation for proper charging of the battery throughout the year</p> <p><b>Mechanical Components:</b></p> <p>(iii) The pole should be made of Galvanised Iron (GI) pipe and its overall weight should be <b>minimum 50 Kg and 3.65mm thickness.</b></p> <p><b>Technical Requirement/Standards:-</b></p> <p>Electronics-EN50530- Deleted.</p>
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2.

**Annexure-12**

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

**NIB No: 06/JREDA/LED/SSLS/19-20**

**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. Nos. of SPV Modules (40Wp):-----
2. Nos. of Batteries (160 Wh):.....
3. Nos. of LED Luminaries (7W):.....
4. Nos. of Pole and 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 & verified the materials which are as per the specification and above materials have been handed over to the Consignee.

Signature & Seal of Supplier

Signature & Seal of JREDA Representative

3.

**Annexure-13**

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

**NIB No: 06/JREDA/LED/SSLS/19-20**

**Certificate**

Certified that I/We, M/s ..... have successfully installed .....Nos. of LED Based Solar Street Lighting Systems on..... and are in working condition. The details of system are as following:

1. Serial nos. of SPV Modules (40Wp) & Make:-----
2. Serial nos. of Batteries (160 Wh) & Make:.....
3. Serial nos. of LED Luminaries (7W) & Make:.....
4. Serial nos. of Charge Controller & Make:.....
5. Pole & Other materials:.....

Date.....

Signature & Seal of Supplier:.....

Certified that M/s ..... have successfully installed .....Nos. of LED Based Solar Street Lighting Systems on ..... and are in working condition since seven days.

Date.....

Signature of Consignee along with Seal:.....

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

Name of Department:.....

Address of Department:.....

**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



4. Annexure-16 and Annexure-17 - Deleted.

5. **Addendum:**

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

**NIB No: 06/JREDA/LED/SSLS/19-20**

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

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

- i. The Manufacturing or Services unit is located at.....District.....in the State of Jharkhand.
- ii. The Head office or Corporate Office of the unit/company/enterprise is at ..... within the territorial jurisdiction of Jharkhand.
- iii. The unit/company/enterprise is registered with (tick):-
  - a. Directorate of industries/District Industries Center, (Copy attached).
  - b. Khadi and Village Industries Board, (Copy attached).
  - c. Directorate of Handloom, Sericulture and Handicraft of Jharkhand Govt., (Copy attached).
  - d. Industrial Area Development Authorities, (Copy attached).
  - e. National Small Industries Cooperation Ltd, (Copy attached).
  - f. Other body specified by Directorate of Industries, Jharkhand Govt. from time to time and other industrial units/enterprises which have submitted IEM and been issued Date of Production (DOP) certificate by GM, DIC/MD, Industrial Area Development Authorities Director, Industries, GoJ.
  - g. MSE having Udyog Adhar Number..... issued by Ministry of Micro, Small and Medium enterprises, Gol and has been duly verified, whether unit is existing / functional and doing regular production at .....(Specify capacity) by GM, DIC/MD, Industrial Area Development Authorities / Director, Industries, GoJ", (Copy attached).
- iv. The unit/company/enterprise is registered under Jharkhand Goods and Services Tax (JGST) Act-2017 or The Central Goods & Services Tax (CGST) Act 2017, (Copy attached).
- v. The unit/company/enterprise have encouraged local people in employment.
- vi. The unit/company/enterprise complies with all statutory and legal formalities of concerned regulators/ Act.
- vii. That the product/services being supplied to JREDA has been manufactured/created by the unit located in Jharkhand only and agree to submit details of batch number/date or any other identifiable tag as per prevalent practice.
- viii. That GSTR-9C (For unit having aggregate yearly turnover of more than 2 crores) as prescribed under JGST Act-2017 is attached.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

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

6. Changes made as above in NIB may be read accordingly for similar changes in related technical specification.
7. The Corrigendum shall form the integral part of the tender documents.

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