



JHARKHAND RENEWABLE ENERGY DEVELOPMENT AGENCY (JREDA)
Plot No. 328/B, Road No. 4, Ashok Nagar, Ranchi 834002
Phone No. 2246970, FAX: 2240665, web-site: www.jreda.com
NOTICE INVITING BID

NIB No: JREDA/SPV/1/SHLS/2007-08

Date: 14/08/2007

Sealed Bids in three parts separately containing EMD (Part-1), Technical & Commercial Offer (Part-II) and Price Offer (Part-III), are invited from reputed, experienced and financially sound parties/firms/Indian companies by JHARKHAND RENEWABLE ENERGY DEVELOPMENT AGENCY for the following work, at their office. Eligible bidder may quote their offer as per the details mentioned

#### Salient features of the bid are as follows:

#### TABLE-1

1.	Description of work	Manufacture/Assembly, Testing, supply, Installation & Commissioning of Indigenous CFL basedSolar Home Lighting System (SHLS Model 2) for Jharkhand Renewable Energy Development Agency's schemes during 2007-08. Tentative quantity of SHLSs is as follows; CFL based SHLS: 1600 Nos. (These quantities may vary)
2	Minimum Lot Size	Bidder may quote for CFL based SHLS. The minimum quantity quoted should be as indicated below: CFL based SHLS: 400 nos Bidder may also submit their offer for additional quantity in multiples of the quantities as indicated below: CFL based SHLS: in multiple of 100 nos.
3.	Earnest Money Deposit	<ul> <li>Rs. 1,20,000/- (Rupees One Lakh twenty thousand only) for 400 CFL based SHLSs and Rs. 30,000/- (Rupees Thirty Thousand only) for each additional 100 SHLSs.</li> <li>Rs. 60,000/- (Rupees Sixty thousand only) for 400 nos CFL based SHLS and Rs. 15000/- (Rupees Fifteen Thousand only) for each additional 100 SHLSs for SSI units registered in the state of Jharkhand.</li> <li>Rs. Nil for SSI units registered with Jharkhand as well as with NSIC.</li> </ul>
4	Cost of Bid document (Non- refundable)	<ul> <li>Rs. 15,000/- (Rupees Fifteen Thousand only)</li> <li>Rs. 7500/- (Rupees Seven thousand five hundred only) for SSI units registered in Jharkhand.</li> <li>Rs. Nil for SSI units registered with Jharkhand as well as with NSIC.</li> </ul>
5.	Time of completion	150 days from the date of issues of purchase order /intimation.





6.	Date of commencement of issue of bid documents	17-08-2007 from 10.00 am to 6.00 pm on all working days
7.	Last date & time of purchase of bid documents	03-09-2007 till 6.00 pm.
8.	Last date & time of submission of bids	05-09-2007 till 11.00 am.
9.	Date & time of opening Part-I (EMD) & Part-II of Techno Commercial bid.	05-09-2007 at 11.30 am
10	Place of issue and submission of bid documents and address for communication	Jharkhand Renewable Energy Development Agency (JREDA) Plot No. 328/B, Road No.4,Ashok Nagar Ranchi- 834002 Ph.No: 2246970,Fax No: 0651-2240665 Web site: www.jreda.com E-mail: info@jreda.com





#### 1. Eligibility and Qualification Criteria

The bidder shall meet the following requirements:

- 1.1 For the General Bidders
- (i) The bidder
  - should be a reputed supplier of solar Home lighting system and who manufactures/assembles at least one or more major sub-systems (viz. PV modules or Storage Battery or Electronics) used in solar home lighting system. The Electronics is design, fabrication and testing of said product under BOS.
  - should have adequate facilities for testing of the Solar System.

To meet the requirement under (i), the bidder shall furnish Registration certificate clearly indicating that they are manufacturer/assembler of solar homelighting system including PV module / storage batteries / electronics as applicable. Bidder shall also submit list of testing facilities along with their photographs.

- (ii) The bidder must be in possession of valid test report for the CFL based Solar Home Lighting System from any of the following test centres
- Solar Energy Centre Gwalpahari Gurgaon, Haryana (SEC),
- Electronics Regional Test Laboratory (East)) Bidhan Nagar, Kolkata (ERTL)
- Central Power Research Institute, Thiruvananthpuram (CPRI)
- Energy Conservation and Development Division, Bangalore (ECDD)
- Electronics Test & Development center, Bangalore (ETDC)

The corresponding test reports clearly indicating the validity shall be submitted along with bid. The test certificate issued on or after 1st January 2006 will be eligible for supply for 2007-08 programme subject to meeting other eligibility criterion (as per clause 1). The Solar Homelighting System tested on or after 1st January 2006 must have the specification as per Section 2A. The Bidders may visit www.jreda.com for specifications and related details.

To meet the requirement under (ii), the bidder shall submit the valid test certificate issued on or after 1st January 2006 from any aforesaid authorized test centres. Test Certificate issued before 1st January 2006 will lead to outright rejection of the Bid.

(iii) The bidder should have supplied solar photovoltaic systems under Solar Programme of the value of 3 crores to any State Nodal Agencies / Govt. Organization during the past three financial years and supplies against such work order should have completed satisfactorily as certified by the concerned State Nodal Agencies/ Govt. organization.

To meet the requirements under (iii), the bidder shall submit (a) attested photocopies of purchase orders / contracts and (b) the certificate from the concerned State Nodal Agencies for the completion of the work satisfactorily. Non-submission of above document shall result in rejection of bid.





(iv) The bidder should have supplied, installed & commissioned a minimum 500 nos. CFL based Solar Home lighting System and which should have worked satisfactorily for a minimum period of 1 year as on the date of submission of bid.

To meet the requirement under (iv) above, the Bidder shall submit attested photocopies of certificates from the respective SNAs / Govt. organization. Non-submission of above document may result in rejection of bid.

- (v) The make and serial number of PV Module used with the SPV System i.e. Solar Home lighting system must be recorded by the manufacturer in a permanent manner on the body of system along with the serial number and year of manufacturing of that SPV system. This will ensure matching of the Module with the rest of system components and also enable verification with the sale/supply record.
- (vi) The eligible bidders who are able to secure order of Solar Home Lighting System will be required to set up at least one service center for every 500 system or a part thereof in Jharkhand.

### 1.2 For the bidders who are SSI units registered with GOJ or SSI units registered with GOJ as well as with NSIC.

- (i) The bidder
  - ❖ should be a reputed supplier of Solar Home lighting system and who manufactures/assembles one of the major sub-systems (viz. PV modules or Storage Battery or Electronics) used in the solar system. The Electronics is design, fabrication and testing of said product under BOS.
  - \* should have adequate facilities for testing of the Solar Home Lighting System.

To meet the requirement under (i) the bidder shall furnish Registration certificate clearly indicating that they are manufacturer/assembler of Solar Home lighting system including PV module / storage batteries / electronics as applicable. Bidder shall also submit list of testing facilities along with their photographs.

- (ii) The bidder must be in possession of valid test report for CFL based the Solar Home Lighting system from any of the following test centers
  - Solar Energy Centre Gwalpahari Gurgaon, Haryana (SEC),
  - ❖ Electronics Regional Test Laboratory (East)) Bidhan Nagar, Kolkata (ERTL)
  - **❖** Central Power Research Institute, Thiruvananthpuram (CPRI)
  - **Energy Conservation and Development Division, Bangalore (ECDD)**
  - **Electronics Test & Development center, Bangalore (ETDC)**

The corresponding test reports clearly indicating the validity shall be submitted along with bid. The test certificate issued on or after 1st January 2006 will be eligible for supply for 2007-08 Programme subject to meeting other eligibility criterion (as per clause 1). Solar Home lighting system (Model 2) tested on or after 1<sup>st</sup> January 2006 must have the specification as per Section 2A. The Bidders may visit <a href="https://www.ireda.com">www.ireda.com</a> for specifications and related details.





To meet the requirement under (ii), the bidder shall submit the valid test certificate issued on or after 1st January 2006 from any aforesaid authorized test centres. Test Certificate issued before 1st January 2006 will lead to outright rejection of the Bid.

(iii) The bidder should have supplied solar photovoltaic systems of the value of Rs 1.5 Crores to any State Nodal Agencies/ Govt. Organization during the past three financial years and supplies against such work order should have completed satisfactorily as certified by the concerned State Nodal Agencies.

(This Clause is not applicable to SSI units registered with GOJ and NSIC)

To meet the requirements under (iii), the bidder shall submit (a) attested photocopies of purchase orders / contracts and (b) the certificate from the concerned State Nodal Agencies for the completion of the work satisfactorily. Non-submission of above document may result in rejection of bid.

(iv) The bidder should have supplied a minimum 1000 nos. Solar Home lighting system system (CFL or LED based) which should have worked satisfactorily for a minimum period of 1 year as on the date of submission of bid.

To meet the requirement under (iv) above, the Bidder shall submit attested photocopies of certificates from the respective SNAs. Non-submission of above document may result in rejection of bid.

(This Clause is not applicable to SSI units registered with GOJ and NSIC)

- (v) The make and serial number of PV Module used with the SPV System i.e. Solar Home lighting system must be recorded by the manufacturer/assembler in a permanent manner on the body of system along with the serial number and year of manufacturing of that SPV system. This will ensure matching of the Module with the rest of system components and also enable verification with the sale/supply record.
- (vi) The eligible bidders who are able to secure order of solar Home lighting system will be required to set up at least one service center for every 500 system or a part thereof in Jharkhand.
- 2. For availing any concession in cost of bid document and / or EMD, the bidder shall furnish attested copies of valid SSI registration certificate issued by Govt. of Jharkhand and/ or from NSIC, clearly indicating validity & monetary limit, as applicable.
- 3. Bidder may submit their offer for minimum lot size defined or additional quantities and EMD for each additional quantity shall be enhanced as mentioned in TABLE 1.
- 4. Cost of the bid documents (non-refundable) shall be deposited in the form of Demand Draft drawn in favour of Director, JHARKHAND RENEWABLE ENERGY DEVELOPMENT AGENCY on any Indian Nationalized Bank / Scheduled Bank, payable at RANCHI, India. Bidder will purchase bid document from the office of Director, JHARKHAND RENEWABLE ENERGY DEVELOPMENT AGENCY, Plot No. 328/B, Road No. 4, Ashok





Nagar, Ranchi - 834002 after submission of cost of bid document. Prospective bidders can also download complete bid document from the web site of JREDA (address indicated above) and submit their bid along with cost of Bid document (in Part – I envelope) in the manner described herein above.

- 5. Bid documents including Terms & Conditions and detailed specification of work shall be available on submission of demand draft from the Office of the Director of JHARKHAND RENEWABLE ENERGY DEVELOPMENT AGENCY during the time and period as mentioned in TABLE 1 here in above.
- 6. All bids will be received in duly Sealed Cover with WAX within the due date and time. Bids received after the due date and time shall be outright rejected.
- 7. Details about date and time of issue of bid documents, submission of bid, opening of bid, date, time, place of submission etc are given in Table 1.
- 8. If it happens to be holiday on the date of submission / opening of bids then same shall be submitted/ opened on next working day at the same time & at the same venue.
- 9. No postal transaction shall be entertained for obtaining of Bid Documents.
- 10. Issuance of bid documents shall not construe that the bidders would be automatically considered qualified.
- 11. EMD shall be submitted in the form of Demand Draft from any Indian Nationalised Bank/ Scheduled Bank payable at Ranchi or in the form of Bank Guarantee from any Indian Nationalised Bank/ Scheduled Bank along with bid.
- 12. Bid documents are not transferable.
- 13. JREDA reserve absolute rights to distribute the total quantities to any number of bidders, in the way deems fit. JREDA will adhere to fair and transparent methodology in distribution of the total quantities to the successful bidders taking into consideration of their experience past performance with JREDA in different programmes, capabilities with respect to manufacturing/testing facilities and their financial strength as per Proforma VI.
- 14. JREDA reserves the right to amend the scope of work, accept or reject any or all the offers/bids, in part or in full or cancel/withdraw the invitation for bids without assigning any reasons whatsoever and in such case no bidder / intending bidder shall have any claim arising out of such action.
- 15. JREDA reserves the right to postpone the date of receipt and opening of the bids or cancel the bid without bearing any liability, whatsoever, consequent upon such decision.
- 16. Bidder shall submit his Permanent Account Number (PAN) copy and recent passport photograph of Managing Director and all Directors or CEO's of the company with Name and Address or photocopy of the passport.





- 17. The bidder shall submit the GPS Co-ordinate (Longitude & Latitude) and digital photograph of their registered office and factory campus showing their board etc.
- 18. If at any time any of the documents/ information submitted by the bidder is found to be incorrect, false or untruthful, the bid and/ or the resultant order may be summarily rejected/ cancelled at the risk of the bidder.

**DIRECTOR JREDA** 





### SECTION - 1 GENERAL TERMS & CONDITIONS

#### 1. INTRODUCTION

- 1.1The instruction/information contained in the Bid documents are for guidance and compliance of the intending Bidder. Bidder is advised to obtain, in writing, clarifications from the Jharkhand Renewable Development Agency (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.
- 1.2 Bidder shall bear all costs associated with preparation and submission of the Bid, journeys

undertaken by them, and subsequent Bidding process till award of the order to successful Bidder and the JREDA shall, in no case, be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.

#### 2. BID DOCUMENTS

2.1 Bid documents shall comprise of NIB, Section-1, 2A, & Proforma-I to X (A, B & C). In addition, any other document / instruction / amendments / revisions issued by the JREDA to the Bidder till due date of submission of the offers, shall also be deemed to be integral part of the order. Failure to furnish all the information required by the bidding document in every respect

#### 3. COST OF BID

- 3.1 Non-refundable cost of Bid document shall be submitted by the Bidder during purchasing of bid document, in form of a Demand Draft from any Indian Nationalised Bank / Schedule Bank, drawn in favour of Director, JREDA, Ranchi. The cost of BID DOCUMENT shall be
  - ❖ Rs.15,000/- (Fifteen Thousands Rupees only)
  - \* Rs. 7500/- (Seven thousand five hundred only) for those SSI units, which are registered with Govt. of Jharkhand.
  - ❖ Rs. Nil for SSI units registered with Govt. of Jharkhand as well as with NSIC.

Bidders downloading the Bid document from JREDA web site, shall submit the cost of bid

document at the time of submission of their bid inside Part – I envelope, i.e., envelope for Earnest Money Deposit

#### 4. SCOPE OF WORK

#### The Scope of work for SHLS includes:

Manufacture/assembly, shop testing, packing & forwarding, transportation, & supply of CFL based SHLS complete in all respects along with one set of operation instruction-cum-maintenance manual (Hindi) for each set and delivery on FOR destination/site (door delivery) basis across the State of Jharkhand including, demonstration of performance





and training at all sites located within the state of Jharkhand as per direction of JREDA. List of consignees will be given before start of dispatch by JREDA.

#### 5.0 TECHNICAL SPECIFICATION

The general technical specification of SHLS are enclosed at Section - 2A. SHLS offered by the bidder should conform to the Ministry of New and Renewable Energy (MNRE) specification 2006-07. The bidder shall submit a "Compliance Certificate for meeting Technical Specifications" alongwith the Part-II: Technical & Commercial Part, as per Proforma - III for qualification conditions. The bidder shall submit the detailed technical specifications of the SHLS offered to be supplied.

#### 6.0 TEST CERTIFICATE

It is mandatory for the bidders to have test certificate issued by the Solar Energy Centre (SEC), Gwalpahari - Gurgaon, Haryana; or Electronics Regional Test Laboratory (East) (ERTL) Bidhan Nagar, Kolkata; or Central Power Research Institute (CPRI), Thiruvananthpuram; that SHLS conform to specification of MNRE, Govt of India. Test Certificates issued on or after  $1^{st}$  January, 2006 would be considered valid only if it is as per MNRE specification on SHLS . This is detailed in technical specifications Section-2A for CFL based SHLS. The test issued prior to 1st January 2006 is not valid. Bid received without test certificate with Technical & Commercial Part: Part-II will be rejected outright and no correspondence will be entertained in this regard. The test reports shall be furnished for specific make/manufacturer, type/model number and capacity of a particular SHLS. bidders are not allowed to change make / model of components / items at the time of supply. The test report issued by SEC/ERTL/CPRI test centers shall be considered valid only for a specific make/ model mentioned in that test report. No test report shall be considered valid wherein more than one make / model is specified for the SHLS components in a single test report. Bidders may visit www.jreda.com also for specifications and related details.

#### 7.0 QUANTITY OF SUPPLY

The requirement given in Table-1 of Notice Inviting Bid, the Bill of Quantity indicated is tentative and is subject to increase or decrease depending upon the actual requirement at the time of placing order and resource available. Bidder may submit their Offer for minimum lot size and additional





quantities as defined, and EMD for each additional quantity shall be enhanced as mentioned in TABLE - 1.

In case any bidder offers less than the minimum lot size their offer will be rejected.

#### 8.0 MINIMUM ELIGIBILITY AND QUALIFICATION CRITERIA

- 8.1 This has been detailed in Notice Inviting Bid.
- 8.2 Bid(s) of bidders who do not submit valid test reports for the system in terms of stipulations of as given above shall be rejected as being non-responsive.
- 8.3 The bidder shall submit a letter in confirmation of meeting the Minimum Eligibility Conditions and qualification conditions as per Proforma II given in the bid document.
- 8.4 The bidder shall submit declaration that they have never be de-listed or banned at any time in the past by any State Nodal Agency, State Govt, Public Sector undertaking or Central Govt. On failure to submit the same, JREDA shall have the discretion to reject the bid.

#### 9.0 SUBMISSION OF BID

Bid shall be submitted in **THREE SEPARATE SEALED COVERS** as indicated below:

#### 9.1 Part-I EARNEST MONEY DEPOSIT (EMD)

To be submitted in **original only (1+0)** 

This cover should be sealed and super-scribed "PART - I; Earnest Money". This envelope should contain the following:

- (i) Cost of Bid Document (for the bidders who have downloaded the Bid Document from JREDA web site or copy of DD/money receipt if purchased from JREDA.
- (ii) Forwarding letter in original (PROFORMA-I)
- (iii) Authorization letter in original (PROFORMA- IV)
- (iv) The original EMD (as applicable) of requisite value.
- (v) Copy of un-priced (blanking out the price part) PRICE SCHEDULE (PROFORMA-VII).
- (vi)Copy of registration certificates (as applicable).

For availing concession/exemption in submission of EMD by SSI Unit registered in Jharkhand, bidder should submit attested copy relevant SSI registration certificate from Govt of Jharkhand and from NSIC (if applicable). Bidders not submitting EMD or SSI registration certificate from Jharkhand and or from NSIC (as the case may be) shall be liable for outright rejection. If the EMD value submitted by the bidder does not match with the quantity offered, their offer is liable for rejection.

#### 9.2 Part-II TECHNO-COMMERCIAL PART

To submit in **original plus two Copies (1+2)** 





This cover should be sealed and super-scribed "PART – II; TECHNICAL AND COMMERCIAL BID". It should contain the following:

- (i) CHECKLIST along with attachments in the same sequence as mentioned.
- (ii) Complete Bid Document (in original) received from JREDA and any additional instruction or documents issued shall be duly signed and stamped on each page as a token of having been read, understood and accepted all the terms and conditions mentioned therein.
- (iii) Performa I to IX (Performa-VII without Price, quantity only) duly filled.

#### 9.3 Part-III PRICE PART

To submit in **original only (1+0)** 

- (i) This cover should be sealed and superscripted "PART-III-PRICE BID". It should contain only Performa-V duly filled up in both figures and words and signed with stamp by authorised signatory of the Bidder.
- (ii) In case of any contradictions between the Prices mentioned in Figures and Words, the Prices mentioned in Words shall be considered Final. Also, in case of any arithmetical error in regard to the Total Amount and Individual rates, the Individual rates shall be taken as final and the total amount shall be adjusted accordingly

#### **CHECKLIST**

I	Forwarding letter : Proforma - I		
II	Minimum Eligibility Condition - qualification : Proforma		
	- II		
III	Compliance Certificate for meeting Technical		
	Specifications -eligibility and qualification: Proforma		
	- III		
IV	Attested Photostat copy of Registration Certificate of		
	firm/SSI/NSIC Certificate as the case may be.		
V	Copy of all valid Registration Certificate PAN/ST/FF/ESI		
	etc.		
VI	Copy of MOU signed for Pre-Bid tie-up on Rs100.00 NJ		
	Stamp paper		
VII	Attested Photo-copy of Partnership Deed in case of		
	partnership firm Article/Memorandum of		
	Company/Trust/Society with the photograph & details of		
	two partner/Director/Trustee.		
VIII	Power of Attorney for authorised signatory in case of		
	companies/trust/society		
IX	Financial capability certificate from Bank/Financial		
	Institution indicating that the manufacturer/assembler		
	has the necessary resources for execution of the order		
	and also BG/CC limit/OD/Packing etc.		
X	(i)Proof of annual turnover for past 3 years for SPV		
	systems including details of manufacturing capacity /		
	facility along with testing facilities and list of items		
	/ products manufactured in house and bought-out items.		
	ii)copy of Audited Balance Sheet and Profit & Loss		
1	account for last three years.		





XI	Details of past experience against supply made to	
VII	different States Nodal Agencies/JREDA: Proforma - VI	
XII	Photocopies of certificate of satisfactory performance	
	of systems supplied to state Nodal agencies along with	
XIII	copies of purchase orders / contracts.	
XTTT	Test Certificate of Solar Home Lighting System issued by	
	Solar Energy Centre/MNRE approved testing centres for the test performed ON or AFTER 1st January 2006.	
XIV	Technical Particular data sheet of Solar Home Lighting	
YT A	System of Bidder.	
XV		
ΛV	Photocopy of bank draft submitted as cost of bid document/ JREDA receipt.	
XVI	PF Registration Certificate & ESI Registration No.	
XVII	A tentative overall schedule in the form of Bar Chart	
VATT	initiating Manufacturing, Pre-dispatch inspection and	
	schedule dispatch.	
	schedule dispatch.	
XVIII	A copy of Price Schedule (without prices), duly signed &	
XVIII	A copy of Price Schedule (without prices), duly signed & stamped, as per proforma-VII mentioning "Ouoted" word	
XVIII	stamped, as per proforma-VII mentioning "Quoted" word	
XVIII	stamped, as per proforma-VII mentioning "Quoted" word in the column of UNIT rate and Total rate for which	
XVIII	stamped, as per proforma-VII mentioning "Quoted" word	
XIX	stamped, as per proforma-VII mentioning "Quoted" word in the column of UNIT rate and Total rate for which price is quoted and mentioning "not quoted" for which	
	stamped, as per proforma-VII mentioning "Quoted" word in the column of UNIT rate and Total rate for which price is quoted and mentioning "not quoted" for which price is not quoted.	
	stamped, as per proforma-VII mentioning "Quoted" word in the column of UNIT rate and Total rate for which price is quoted and mentioning "not quoted" for which price is not quoted.  Declaration that they have never be de-listed or banned	
	stamped, as per proforma-VII mentioning "Quoted" word in the column of UNIT rate and Total rate for which price is quoted and mentioning "not quoted" for which price is not quoted.  Declaration that they have never be de-listed or banned at any time in the past by any State Nodal Agency, State Govt, Public Sector undertaking or Central Govt.  GPS Co-ordinate & address of the registered office and	
XX	stamped, as per proforma-VII mentioning "Quoted" word in the column of UNIT rate and Total rate for which price is quoted and mentioning "not quoted" for which price is not quoted.  Declaration that they have never be de-listed or banned at any time in the past by any State Nodal Agency, State Govt, Public Sector undertaking or Central Govt.  GPS Co-ordinate & address of the registered office and factory of the bidder & photograph.	
XIX XX XX1	stamped, as per proforma-VII mentioning "Quoted" word in the column of UNIT rate and Total rate for which price is quoted and mentioning "not quoted" for which price is not quoted.  Declaration that they have never be de-listed or banned at any time in the past by any State Nodal Agency, State Govt, Public Sector undertaking or Central Govt.  GPS Co-ordinate & address of the registered office and factory of the bidder & photograph.  No Deviation Confirmation as per Proforma IX	
XX	stamped, as per proforma-VII mentioning "Quoted" word in the column of UNIT rate and Total rate for which price is quoted and mentioning "not quoted" for which price is not quoted.  Declaration that they have never be de-listed or banned at any time in the past by any State Nodal Agency, State Govt, Public Sector undertaking or Central Govt.  GPS Co-ordinate & address of the registered office and factory of the bidder & photograph.  No Deviation Confirmation as per Proforma IX  Bidder shall submit complete bidding document including	
XIX XX XX1	stamped, as per proforma-VII mentioning "Quoted" word in the column of UNIT rate and Total rate for which price is quoted and mentioning "not quoted" for which price is not quoted.  Declaration that they have never be de-listed or banned at any time in the past by any State Nodal Agency, State Govt, Public Sector undertaking or Central Govt.  GPS Co-ordinate & address of the registered office and factory of the bidder & photograph.  No Deviation Confirmation as per Proforma IX  Bidder shall submit complete bidding document including subsequent amendment,	
XIX XX XX1	stamped, as per proforma-VII mentioning "Quoted" word in the column of UNIT rate and Total rate for which price is quoted and mentioning "not quoted" for which price is not quoted.  Declaration that they have never be de-listed or banned at any time in the past by any State Nodal Agency, State Govt, Public Sector undertaking or Central Govt.  GPS Co-ordinate & address of the registered office and factory of the bidder & photograph.  No Deviation Confirmation as per Proforma IX  Bidder shall submit complete bidding document including subsequent amendment, modification and revision, duly signed and stamped as a	
XIX XX XX1	stamped, as per proforma-VII mentioning "Quoted" word in the column of UNIT rate and Total rate for which price is quoted and mentioning "not quoted" for which price is not quoted.  Declaration that they have never be de-listed or banned at any time in the past by any State Nodal Agency, State Govt, Public Sector undertaking or Central Govt.  GPS Co-ordinate & address of the registered office and factory of the bidder & photograph.  No Deviation Confirmation as per Proforma IX  Bidder shall submit complete bidding document including subsequent amendment,	

c) Please note that this is a zero deviation tender. Bidders are advised to strictly confirm compliance to bid conditions and not to stipulate any deviation / conditions in their offer. Subsequent to bid submission, JREDA may or may not seek confirmations / clarifications and any offer(s) not in line with BID conditions shall be liable for rejection. Bidders are also requested to submit the documents / confirmations strictly as per the check list enclosed above. Any clarification/confirmation bidder may require shall be obtained from JREDA before fifteen days of submission of the bid. Any clarification/confirmation bidder may require from JREDA submitted after will not be entertained.

#### 9.4 Part-III - PRICE

This cover should be sealed and superscripted "PART-III-PRICE BID" to be filled up exactly as per Format given in proforma-VII. This shall be filled up in both figures and words and signed on each page with stamp by authorised representative of the Bidder. Prices of each lot shall be mentioned in Words and





Figures both. In case of any contradictions between the Prices mentioned in Figures and Words, the Prices mentioned in Words shall be considered Final. Also, in case of any arithmetical error in regard to the Total Amount and Individual rates, the Individual rates shall be taken as final and the total amount shall be adjusted accordingly. Price Offer should not contain any technical or commercial offer, likewise, technical or commercial offer should not contain price of any item, such cases, even if found any where, shall not be given cognizance of.

- 9.5 JREDA shall assume no responsibility for misplacement or premature opening of any part of the bid, in case above instructions are not complied with by the bidder.
- 9.6 Any offer received after the deadline for submission of offers as specified above, shall be rejected and returned unopened to the bidder.
- 9.7 All the pages of bid documents, technical specifications, bids, supporting documents, etc. shall be duly signed by the authorised signatory and company seal should be affixed on each page. Any part of the bid, which is not specifically signed by the authorised signatory and not affixed with company seal, shall not be considered for the purpose of evaluation.
- 9.8 The offer should be signed and sealed with wax by the bidder or his authorised representative. The names and designations of all persons signing shall be typed or printed below the signature.
- 9.9 The offer shall contain no erasures or overwriting except as necessary to correct errors made by bidder. Such corrections, if any, shall be initialed by the person signing the offer.
- 9.10 Failure to furnish all information and documentary evidence as stipulated in the bid document or submission of an offer that is not substantially responsive to the bid document in all respects shall be summarily rejected.

#### 10.0 EARNEST MONEY DEPOSIT (EMD)- To be submitted in Part-I

- 10.1 Bidder shall submit non-interest bearing Earnest Money Deposit (EMD) of Rs. 1,20,000/- (One Lakh Twenty thousands only) as applicable for 400 CFL based SHLS in the form of Demand Draft from any Indian Nationalised Bank/ Scheduled Bank, drawn in favour of "Director, JREDA" payable at Ranchi or in the form of Bank Guarantee (enclosed at Proforma-X-A) from any Indian Nationalised Bank/ Scheduled Bank. The Earnest Money submitted in the form of Bank Guarantee shall remain valid for a minimum period of six months after the validity of the offer.
- 10.2 Bidder shall submit additional non-interest bearing EMD of Rs. 30,000/-(thirty thousand only) for each additional 100 CFL based SHLS, if the bidder submits their offer for more than 400 SHLS





10.3 Earnest Money submitted in a separate sealed envelope (PART-I) duly superscripted with the Bid Enquiry reference, Bidder's own names full address and titled "Earnest Money".

10.4 Small Scale Industry (SSI) Unit registered in Jharkhand shall submit non-interest bearing Earnest Money Deposit of Rs 60,000/-(Rupees sixty thousand only) for 400 SHLS in the form of Demand Draft from any Indian Nationalised Bank/ Scheduled Bank, drawn in favour of "Director, JREDA" payable at RANCHI or in the form of Bank Guarantee (enclosed at Proforma-X-A) from any Indian Nationalised Bank/ Scheduled Bank. Further SSI unit shall submit additional non-interest bearing EMD of Rs. 15,000/-(Fifteen thousand only) for each additional 100 SHLS, if the SSI Unit submits their offer for more than 400 SHLSs.

### For SSI units registered with Govt of Jharkhand as well as with NSIC: Rs NIL (No Earnest Money is required to be deposited).

However, Bidders seeking concession/exemption from submission of Earnest Money, shall submit valid Registration Certificate in the envelope titled "Earnest Money" failing which the Bid will be treated as rejected. The request for adjustment of earlier dues in place of Earnest Money Deposit shall not be entertained. Bidder those are not registered in Jharkhand as SSI unit shall submit EMD (as per clause no. 10.1 & 10.2) of exact amount in accordance to the quantity quoted failing which bid will be rejected.

The SSI units registered in State of Jharkhand must also furnish an attested photocopy of SSI unit certificate issued by Govt. of Jharkhand (GOJ) along with requisite earnest money as per Clause no. 10.4 in this respect. The SSI units registered with GOJ as well as with NSIC, must furnish an attested photocopy of registration certificate issued by GOJ and NSIC, clearly indicating the validity period.

- 10.5 Bidder who intends to submit offer for CFL SHLS shall submit EMD as defined above for CFL based SHLSs.
- 10.6 The Earnest Money shall be returned to all the unsuccessful Bidders, within thirty days from the date of placement of LOI/Order to successful bidder.
- 10.7 In the event the Bid of any party is rejected during the course of Techno-Commercial Scrutiny and Evaluation, the Earnest Money will be returned to such Bidder.
- 10.8 Earnest Money shall be forfeited if –
- a) Any Bidder withdraws his Bid or resiles from his offer during the validity period.
- b) The successful Bidder fails to furnish his Acceptance of the Order or fails to submit the Security Deposit within specified time as per terms of the LOI/Order.

#### 11.0 VALIDITY OF OFFER

The Bid and Price(s) quoted shall remain valid up to 150 days from the due date of submission of offer.





#### 12.0 OPENING AND EVALUATION OF OFFER

- 12.1 Part-I & Pat-II: EMD and Commercial & Technical Part will be opened on the date and time mentioned in the Table-I of NIB. at the office of Director, JREDA at Plot No. 328/B, Road No. 4, Ashok Nagar, Ranchi in the presence of bidders, or their authorised representative, who choose to attend the meeting. The representative should produce authorization letter to attend the bid opening meeting as given at Proforma-IV. The representative who does not produce such authorization will not be allowed to attend the bid opening.
- If there will be constraint on part of time during opening of tender document and the required documents could not be shown or declared or read then The authorized Representative of the bidder may inspect Techo-Commercial Bid by prior appointment form JREDA.
- 12.2 If the EMD value submitted by the bidder does not match with the quantity offered, their offer is liable for rejection.
- 12.3 JREDA, if required, may at its discretion obtain clarifications on offers by requesting clarifications from any or all the bidders at any time prior to price bid opening (Part-III). Such request for clarification and the response shall be in writing.
- 12.4 JREDA shall examine whether bid is complete in all respect and conform to stipulated requirement of Technical specifications and Tests reports. The bid having material deviation shall be rejected as being non-responsive.
- 12.5 The Part-III: Price Part of each lot of only those bidders, whose offers are technically and commercially acceptable after evaluation of the Technical and Commercial Part, will be opened and evaluated. The date & time for opening of Part-III: Price Part will be uploaded in JREDA web-site. Bidders are requested to visit the website (www.jreda.com) regularly and keep themselves informed. The Price Part will be opened at the office of Director, JREDA at Plot No. 328/B, Road No. 4, Ashok Nagar, Ranchi 834002 as intimated, in the presence of eligible bidders or their authorised representative. The authorised representative will be allowed to attend the opening on production of authorization letter.
- 12.6 The prices shall be evaluated for CFL based SHLS for the entire quantity quoted by the bidders for the complete scope defined in this document. Unit landed price (inclusive all taxes, duties, freight, insurance etc) for CFL based system will be evaluated and bidders shall be ranked. The bidder who has quoted the lowest evaluated rate shall be offered the quantity quoted. All the other bidders who quoted CFL based system shall also be requested to match the lowest evaluated rate. For the bidders who matched the lowest evaluated rate, the balance quantity (if any) will be distributed amongst them. However, while distributing the





quantity to L1 bidder and other bidders (if any), JREDA shall ensure that minimum percentage of the total annual purchase of SHLS shall be from SSI units registered in Jharkhand, as per existing Industrial Policy of Govt of Jharkhand.

12.7 JREDA, if required, may at its discretion extend the scheduled date of opening of Price Part of bids.

#### 13.0 CONTRACT PRICE

- 13.1 The total contract price & rates of SHLSs in full and complete set including SPV module, control electronics, battery, mechanical components etc. should be quoted in **Proforma -VII** (Price Part). The price shall be inclusive of the total scope as defined in this document.
- 13.2 For Supply of items in full & good condition at FOR Site / Stores site (door delivery basis) to various consignees across State of Jharkhand .The bidder may arrange transit insurance. Contract Price also includes all charges towards packing & forwarding, inspection Insurance and freight including door delivery charges. Contract Price is also inclusive of Excise Duty, CST and Sales Tax / VAT on the finished items, Turn Over Tax (TOT) / Octroi, Professional tax, entry tax etc. as applicable for the supplies and all such taxes / duties will be written separately.
- 13.3 Contract Price and unit rates shall remain firm and binding and shall not be subject to any variation, whatsoever, on any account except for statutory variation on taxes & duties during contractual completion period as stipulated in Clause no 13.4 below and / or addition or modification of scope of work.
- 13.4 Various taxes, levies and duties shall be paid against applicable documentary evidence limited to the maximum ceiling as indicated in the price schedule. The bidder shall indicate various components of taxes and duties, freight, insurance etc that has been considered in the unit rates.
- 13.5 The Contract price & unit rates includes and covers the cost of all royalty & fees for all articles & processes, protected by letters, patent or otherwise incorporated in or used in connection with the work, also all royalties, rents and other payments in connection with obtaining all the materials for the work and the supplier shall indemnify and keep indemnified the JREDA, which indemnity, the supplier hereby gives against all actions, proceedings, claims, damages, costs and expenses arising from the incorporation in or use of work of any such articles, processes or supplies.





- 13.6 During the period of the contract, JREDA may order addition / deletion in quantities which supplier shall comply. The adjustment in Contract Price shall be made at the same unit rate as per Price Schedule.
- 13.7 All applicable charges for taking necessary clearances such as commercial tax road permit etc., wherever necessary, are included in the contract price.

#### 14.0 TERMS OF PAYMENT

#### A. The terms of Payment for Supply shall be as given below:

- a) Subject to deductions as per Clause 19.0, 98% of the contract price shall be paid subjected to availability of fund with JREDA against delivery of goods in full and good condition on submission of following documents:
  - Commercial Invoice in triplicate
  - Copy of receipted Delivery Challan / transportation Challan / Lorry receipt.
  - Home Lighting System Serial No., Module Serial No. along with Test Report, Battery No., Battery Make, Year of manufacture, Charge controller No. presented in tabular form.
- b) Balance 2% shall be paid after completion of Warranty period subject to deduction due to non-performance of the supplier during warranty period and submission of following documents:
- Commercial Invoice in triplicate
  However, this 2% payment can be released against a Bank Guarantee
  (BG) as per JREDA's proforma (enclosed at Proforma-X-C) from any
  Indian Nationalised Bank/ Scheduled Bank valid till warranty
  period of SHLS. The Proforma for BG is enclosed.
- c) All payments shall be released by JREDA within 45 days subject to availability of fund with JREDA on submission of stipulated documents through account payee cheque issued in favour of the Supplier and payable at any Indian Nationalised /Scheduled Bank, Ranchi.
- d) All the payment shall be paid in the name of only successful bidder not to anyone else.

#### 15.0 INCOME TAX

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

#### 16.0 STATUTORY VARIATION IN TAXES AND DUTIES





- 16.1 The adjustment in the Contract Price towards imposition of new taxes or abrogation of existing taxes due to statutory variation shall be applicable only if the new tax is enacted or existing tax is abrogated within Contractual delivery/execution period. For any upward variation due to enactment of new tax or abrogation of existing tax after Contractual delivery / execution period, adjustment in the Contract Price shall not apply, although for any downward variation, JREDA shall make necessary adjustment in the rate of the items.
- 16.2 The Supplier shall bear and pay all liabilities in respect of statutory variations in taxes and duties and imposition of new taxes and duties that may be imposed after the Contractual delivery / execution dates, as originally stipulated, in case the delivery dates are extended due to reasons attributable to Supplier.
- 16.3 The adjustment in the Contract Price towards variation in the taxes shall be made by the JREDA on production of the documentary evidences by the Supplier and after completion of delivery.
- 16.4 The Contract Price shall be adjusted towards variations in taxes in respect of only finished equipment supplied by the Supplier to the JREDA. No adjustment in the Contract price shall be made for variations in the taxes on raw materials, parts, component / intermediate components, assemblies / sub-assemblies, etc.

#### 17.0 TRANSIT INSURANCE

Transit Insurance shall be arranged by the supplier as per despatch instruction. In case of any damage / loss / pilferage / non-delivery during transit, the supplier shall lodge the claim and settle the claim with the insurance agency. The supplier shall also arrange replacement of the damaged, lost/pilfered items expeditiously pending settlement of commercial implications with insurance agency, if any, so as not to hamper the working of the system. The resultant loss if any due to failure of supplier / sub- supplier to comply with the above shall be to the account of supplier.

#### 18.0 DESPATCH INSTRUCTIONS

- 18.1 All the items/Equipments shall be subjected to inspection by JREDA or authorised representative as per relative Standards/provision approved by JREDA before dispatch of items.
- 18.2 The equipment shall be dispatched as per the detailed "Despatch Instructions" which will be required to be followed





strictly at the time of despatch. However, equipment shall be dispatched only after receipt of "Despatch Clearance" from JREDA after inspection and acceptance of the equipment is over. No consignment shall be dispatched without receipt of despatch clearance from JREDA.

#### 19.0 LIQUIDATED DAMAGES FOR DELAY IN COMPLETION

- 19.1 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 the JREDA as pre-agreed liquidated damages a sum equipment to ½% of total contract value per week of such delay, or part thereof, subject to maximum of 5% of the total contract value.
- 19.2 The liquidated damages for delayed completion shall be recovered from the Supplier's bill or Security Deposit.

#### 20.0 DELIVERY

The delivery of goods at FOR destination in full as per the terms and conditions of the contract/order shall be completed within 5(five) months from the earliest date of intimation of the order.

#### 21.0 INSPECTION OF THE FACTORY AND TESTS

- 21.1 JREDA reserves the right to inspect the manufacturer's works/factory to ascertain the capability/availability of necessary equipment & infrastructure required for manufacture of the item offered before opening of the price offers of the bidders.
- 21.2 JREDA shall have the right to inspect and test the goods to confirm their conformity to the technical specifications after delivery of goods to consignee.
- 21.3 Successful bidder shall inform JREDA for pre-dispatch inspection at least 25 days in advance of schedule dispatch and at least 15 days in advance for final delivery.

#### 22.0 CANCELLATION OF BID / ORDER

The JREDA reserves the right to reject in part or full, the awarded contract, without assigning any reason of those firms which will be found defaulter for delayed supply or failure to deliver satisfactory performance or supply of substandard materials pursuant to clause 19.0 and 21.0. Non submission of security deposit within stipulated period will result in cancellation of purchase order.

#### 23.0 WARRANTY PERIOD





The manufacturer must provide warranty for a minimum period of two years for the complete system including the battery and minimum ten years for PV modules from the date of supply at site/demonstration of systems after receipt of the materials by the consignee. Supplier shall without prejudice to any other clauses of the order repair/replace the defective parts and restore the system to satisfactory working/performance within 7 days without any additional cost to JREDA within the period of Warranty.

The PV module will be warranted for a minimum period of 10 years from the date of supply and the Solar Home Lighting System (including the battery) will be warranted for a minimum period of 2 years from the date of supply. The warranty card to be supplied with the system must contain the detail of the system supplied as given in the Proforma VIII. The manufacturers can also provided additional information about the system and condition of warranty as necessary.

- 23.1 Any minor equipment and material which may not be specifically mentioned in this specification but are required to make the system complete in every respect in accordance with technical specification and guaranteed performance of the equipment shall be deemed to have been covered under the scope of this specification and shall be provided by the tenderer /supplier within the quoted price.
- 23.2 The Tenderer shall satisfy the purchaser that he possesses the necessary technical experience and has at his disposal suitable facilities and staff to ensure that the contract shall be executed with the best quality material and workmanship within the stipulated time. Necessary particulars in this regard shall be furnished with the Tender.
- 23.3 The equipment supplied shall be new and best of their kind and of latest technology on the date. All materials and equipment shall comply with the MNRE Standard.
- 23.4 The equipment shall be designed to have maximum reliability and ease of operation and maintenance as primary consideration. The equipment offered shall be of a family efficiently and reliably under similar climatic and operating condition. Operation feed back for such equipment already supplied shall be attached with the offer. All the equipment supplied shall be guaranteed for quality workmanship and compliance with the specified requirements for integrated performance.

### 24.0 TRAINING PROGRAMME, AFTER-SALES SERVICE AND AVAILABILITY OF

24.1 The responsibility of organizing training programme for SHLS will rest on the manufacturers. The training programme will be organized in consultation with JREDA/ Consignee and Manufacturer





of SHLS. The training programme will focus on operation and maintenance of SHLS. Printed leaflet/literature should be made available in Hindi by the manufacturer regarding the operation and maintenance of their SHLS.

- 24.2 The supplier shall within 7 days from the date of the order depute authorised service engineer and establish sufficient inventory of spares in the state in consultation with JREDA to provide satisfactory and uninterrupted services during warranty period.
- 24.3 The supplier shall maintain one service center for 400 SHLS within the radius of 40 kms or so.

#### 25.0 PERFORMANCE GUARANTEE (SECURITY) DEPOSIT

The successful tenderer shall submit Performance Guarantee (Security) Deposit within 15 days from the date of Letter of award, in the form of Bank Guarantee from any Nationalized bank (as per Proforma-X-B) for a sum equivalent of 5% (Five Percent) of contract price against and is valid till completion of supplies at site. The Performance Security shall be liable for forfeiture by JREDA in case of termination / cancellation of the order / contract pursuant to Clause 22.0 or failure of the equipment to deliver satisfactory and acceptable performance.

For SSI units registered with Jharkhand, this clause is not applicable.

For SSI units registered with Jharkhand as well as with NSIC, this clause is not applicable subjected to the monetary limit as defined in the Registration certificate or as per decision of the purchase committee.

#### 26.0 AWARD OF CONTRACT/ORDER

The contract/order shall be awarded to techno-commercially acceptable and lowest evaluated bidder for the quantity quoted by the bidder

#### 27.0 AGREEMENT / CONTRACT

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

#### 28.0 ARBITRATION

All disputes would be settled within Ranchi Juridiction of Court of Law only. All arbitration cases would only be settled under Arbitration and Conciliation Act 1996 but at Ranchi only.

#### 29.0 ASSIGNMENT





The supplier shall not assign, in whole or part, its obligations to perform under the order/contract, without written permission of the JREDA.

#### 30.0 FORCE MAJEURE

- 30.1 Should at any time during the continuance of the Contract the performance in whole or in part of any obligations by either party under this Contract be held up by reasons of any war, hostility, acts of foreign enemy, civil commotion, sabotage, fires, floods, earthquakes, explosions, epidemics, cyclones, quarantine restrictions, Governmental regulations, law & order and other proclamation etc. (hereinafter referred to as "Events") then, provided notice of the happening of any such eventuality is given by either party to the other within 10 days from the date of occurrence thereof neither party shall, by reasons of such eventuality, be entitled to terminate this Contract, nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance, and the work under this Contract shall be resumed as soon as practicable after such eventuality has come to an end or ceased to exist.
- 30.2 Should one or both the parties be prevented from fulfilling their contractual obligations by a state of Force Majeure, lasting continuously for a period of at least four (4) weeks, the two parties should consult each other regarding the further implementation of the Contract with the provision that if no mutually satisfactory arrangement is arrived at within a period of 2 weeks from the expiry of 4 weeks referred to above, the Contract shall be deemed to have expired at the end of the aforesaid 2 months. Such expiry of the Contract will not relieve the parties from the obligations to reach agreement regarding winding up and financial settlement of the Contract.
- 30.3 The above mentioned Force Majeure events shall not include constraints, which could prudently be foreseen like shortage of power, non-availability of raw materials, difficulties in making transport arrangement, break down of machines, strikes, lock outs etc.
- 30.4 The above-mentioned Force Majeure conditions/clause shall also apply in the works of sub-contractors/suppliers of the contractor.
- 30.5 However, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination/ cancellation of order/contract if and to the extent that its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.





#### SECTION - 2A

#### Technical Specification for CFL based SHLS

#### 1.0 DEFINITION

A Solar Home Lighting System (SHLS) aims at providing solar electricity for operating lights and/or fan or energizing a DC operated portable TV sets for specified hours of operation per day.

#### 2.0 SCOPE OF WORK

The scope of work includes manufacture / assembly of Solar Home System, shop testing, packing & forwarding, transportation, transit insurance, supply, installation commissioning of CFL based SHLS system complete in all respect alongwith one set of operation instruction cum maintenance manual (Hindi) for each set and delivery on FOR destination/site (door delivery) basis across the state of Jharkhand including, demonstration of performance and training at all sites located within the state of Jharkhand as per direction of JREDA.

#### 3.0 TECHNICAL SPECIFICATION

The CFL based Solar Home Lighting System shall be Indigenous make should conform to the following specifications / model:-

TYPE OF SHLS	COMPONENTS	SPECIFICATION
	PV Module	1x37 Wp under STC
MODEL 2	Lamp	2xCFL, 4-Pin 9W, Base up configuration housed in assembly suitable for indoor use, with reflector in its back.
	Battery	1x12V, 40AH, Tubular Plate, low maintenance type Lead Acid Battery, with c/10 discharge.
	Other Components	Control electronics, Module mounting hardware, Battery box, Interconnecting wires/cables, Switches, Operation/ Instruction and Maintenance Manual.

All models shall have a socket to provide power for a 12V DC TV set, which is purchased separately.

Small white LED shall be provided as an optional feature, with an independent switch.





#### DUTY CYCLE

Model No	Average Hours of Operation Per Day
Model 2	3-4 Hours

#### 3.2 LAMPS

- (a) The lamps shall be compact fluorescent (2 x CFL) type, 4 -Pin, with rating of 9 W. A suitable pre-heating circuit must be provided.
- (b) The light output from the lamps should be around  $600\pm5\%$  lumens. No blackening or

reduction in the lumen output by more than 10% should be observed after 1000  $\ensuremath{\mathsf{ON}}/\ensuremath{\mathsf{OFF}}$ 

cycles (two minutes ON followed by four minutes OFF is one cycle).

(c) The lamps should be housed in an assembly suitable for indoor use, with a reflector on its

back. While fixing the assembly, the lamp should be held preferably in a base up configuration.

#### 3.3 BATTERY

- (a) The battery shall be of flooded electrolyte type, positive tubular plate, and low maintenance
  - lead acid battery conforming to relevant BIS standards
- (b) The battery will have a minimum rating of 12V, 40AH (at C/10) discharge rate
- (c) 75% of the rated capacity of the battery should be between fully charged and load cut off

#### 3.4 ELECTRONICS

- (a) The inverter will be of quasi sine wave/sine wave type with a frequency in the range of 20-35
  - KHz. Half-wave operation is not acceptable.
- (b) The total electronic efficiency shall be at least 80%
- (c) No blackening or reduction in the lumen output by more than
- 10% should be observed after
- 1000 ON/OFF cycles (two minutes ON followed by four minutes OFF is one cycle).
- (d) The idle current consumption should not be more than 10mA

#### 3.5 PV MODULE(S)





- (a) The PV Module(s) shall contain crystalline silicon solar cells.
- (b) The power output of the module(s) under STC should be a minimum of 37W.
- (c) The operating voltage corresponding to power output mentioned above should be 16.4V.
- (d) The open circuit voltage of the PV module under STC shall be at least 21.0V.
- (e) The terminal box on the module should have a provision for opening for replacing the cable, if required.
- (f) A strip containing the following details should be laminated inside the module so as to be
  - i. Name of the Manufacturer or distinctive logo.
  - ii. Model or type No.
  - iii. Serial No.
  - iv. Year of make
- (i) Name of the Manufacturer or distinctive logo.
- (g) Models of reputed make shall be offered.

#### JREDA SPECIFICATION

- (a) Monogram of JREDA along with following details translated into Hindi language shall be laminated in Devnagari script on the left hand top corner in front of each PV Module.
  - General Programme 2007-08
  - Not for sale or transfer
  - Statutory action would be taken by JREDA, if it found sold or transferred, under different sections of IPC.
- (b) Frame of PV Module shall be painted with golden yellow colour.
- (c) A strip containing the following detail should be mentioned in Hindi language and pasted in permanent manner at the back of the module:
- (i) Cost of the system
- (ii) State subsidy to different categories viz.
- SC/ST/primitive/General.
- (iii) Beneficiary contribution.

#### 3.6 ELECTRONIC PROTECTION

- (a) Adequate protection is to be incorporated under no load conditions (e.g. when the lamp is
  - removed and the Home Lighting System is switched ON).
- (b) Battery cut offs & reconnects should be provided to protect it against overcharge and deep
- (c) A fuse should be provided to protect against short circuit conditions.
- (d) A blocking diode, should be provided as part of the Home Lighting System electronics to prevent reverse flow of current through the PV module, if such a diode is not provided with the module itself.





(e) Full protection against open circuit, accidental short circuit and reverse polarity should be provided.

#### 3.7 MECHANICAL COMPONENTS:

Metallic frame structure MS.Flat/MS.Angle size: 25mmx3mm (minimum), with corrosion resistance paint, to be fixed on the roof of the house to hold the SPV module(s). The frame structure shall have provision to adjust its angle of inclination to the horizontal between 0 and 45, so that it can be installed at the specified tilt.

A vented metallic box of M.S.(0.70 mm minimum thickness) acid proof, corrosion resistance, painted as per relevant BIS for housing the storage battery indoors shall be provided. The box can be of injection moulded plastic /acrylic / polymer of 2.5mm minimum thickness. The material used should be 100% acid proof, rust proof and good electrical insulator. The box should have grid structure at the base for proper strength.

#### 3.8 OTHER FEATURES

- (a) Two LED indicators one for a green light to indicate charging in progress, and another red LED to indicate deep discharge conditions of the battery. The green LED should glow only when the battery is actually being charged.
- (b) The ON/OFF switch used in the SHLS must be suitable for use in DC circuit and be reliable with long life. A cable(2 core x 1.5 sqmm) of suitable length (at least 5 meters) should be provided for inter connection between the module and the Home Lighting System.
- (c) The following details should be marked indelibly on the body of SHLS.
  - i. Name of the Manufacturer or distinctive logo.
  - ii. Model or Type No.
  - iii. Serial No.
  - iv. Year of make
- (d) Components and parts used in solar home lighting systems should confirm to the latest BIS specification, whichever such specifications are available and applicable.

#### 3.9 DOCUMENTATION:

An operation/Instruction/Maintenance Manual in Hindi should be provided with the Solar Home Lighting System. The following minimum details must be provided in the manual:

- i. About Photovoltaic
- ii. About Solar Home Lighting system its components and expected performance.
- iii. About PV Module.
- iv. About CFL
  - v. About Battery





- vi. Clear instructions about mounting of PV module(s)
- vii. About electronics
- viii. About charging and significance of indicators.
  - ix. Do's and Don'ts
  - x. Clear instructions on regular maintenance and trouble shooting of solar home system.
  - xi. Name and address of the person or service center to be contacted in case of failure or complaint.
  - xii. Warranty card.

#### 3.10 WARRANTY

The PV module will be warranted for a minimum period of 10 years from the date of supply and the Solar Home Lighting System (including the battery) will be warranted for a minimum period of two years from the date of supply. The warranty card to be supplied with the system must contain the detail of the system supplied as given in the Proforma VIII. The manufacturers can also provide additional information about the system and condition of warranty as necessary.

Proforma - I

Jharkhand Renewable Energy Development Agency NIB No.JREDA/SPV/1/SHLS/2007-08 Bid Proforma - Solar Home Lighting System Technical & Commercial Part: Part -I I Format for Forwarding Letter

(To be submitted by bidders on official letter-head of the company)

No
Dated
To,
The Director
Jharkhand Renewable Energy Development Agency
Plot No. 328/B, Road No. 4,
Ashok Nagar,
Ranchi - 834002
Sub: Offer in response to Notice Inviting Bid No for manufacture & supply of Solar Photovoltaic Systems -Solar Home Lighting System.  Quantity OfferedNos.
Sir,





specified, the offer has been submitted in two different envelops duly marked and sealed. The offer is submitted in triplicate. We also further declare:

- a) That we are submitting this offer under the above mentioned notice after having fully read and understood the nature of the work and having carefully noted all the specifications, terms & conditions laid down in the bid documents.
- b) That we shall execute the offer/work as per specifications, terms & conditions of the Bid Documents and in configuration of the sample submitted on award of work.

Yours faithfully,

(Authorized Signatory) Name Designation Company Seal

> In Sealed Cover Part - II

Proforma - II

Jharkhand Renewable Energy Development Agency NIB No. JREDA/SPV/1/SHLS/2007-08 Bid Proforma - Solar Home Lighting System Technical & Commercial Part: Part - II Format for confirmation of Minimum Eligibility Condition

(To be submitted by bidders on official letter-head of the company)

No Dated	
To, The Director, Jharkhand Renewable Energy Development A Plot No. 328/B, Road No. 4, Ashok Nagar, Ranchi 834002	Agency

Confirmation of Subject: meeting the Minimum Eligibility Condition for NIB No..... for Solar Home Lighting System

Sir,

Having examined the Bid documents of NIB No. ....., we hereby confirm the following towards the minimum eligibility conditions to participate in the bid for Manufacture & Supply of Solar Photovoltaic Systems - Solar Home Lighting System





- 1) We are indigenious manufacturers of sub-systems of SPV Systems (SPV Module, battery, electronics)
- 2) Wе have valid test certificates from (Solar Energy Centre (SEC) Gurgaon or Electronics Regional Test Laboratory (East) (ERTL), Kolkata or Central Power Research Institute (CPRI), Thiruvananthapuram or Electronics Test and Development Centre (ETDC), Bangalore) tested on or after  $1_{\rm st}$  January 2006 for the Model 2 of Solar Home Lighting System to be supplied as per MNRE Specs.2006-07.
- 3) We confirm that these systems have been working satisfactorily since supply. Certificate to this effect from the concerned State Nodal Agency and other organisations are enclosed.
- 4) If any time, any of declaration is found to be false, our offer or order is liable to rejection.

Yours faithfully,

(Authorized Signatory)
Name
Designation
Company Seal

Enclosures: attached.

In Sealed Cover Part - II

Proforma - III
Jharkhand Renewable Energy Development Agency
NIB No JREDA/SPV/1/SHLS/2007-08
Bid Proforma - Solar Home Lighting System
Technical & Commercial Part: Part - II
Format for Compliance Certificate for meeting Technical
Specifications -

(To be submitted by bidders on official letter-head of the company)

No Dated			
To, The Director Jharkhand Renew Plot No. 328/B, Ashok Nagar, Ranchi 83400	·	ment Agency	
-	pliance Certificat ations - Solar Home :		_
Sir,			
<del>-</del>	Prepared by Dr. R.P.Sharma	Checked by Dr. Arbi	nd Kumar





Having examined and understood fully the contents of the Bid document of NIB No. ....., we hereby confirm that the Solar Home Lighting System offered by us herein meet the technical specifications and scope of work in to without any deviation whatsoever from those specified in the bid documents towards fulfilling the eligibility criteria & qualifications.

Yours faithfully,

(Authorized Signatory)
Name
Designation
Company Seal

#### In SealedCoverPart - II

Proforma - IV

Jharkhand Renewable Energy Development Agency
NIB No JREDA/SPV/1/SHLS/2007-08
Bid Proforma: Solar Home Lighting System
Technical & Commercial Part: Part - II
Format for authorizing for attending Bid Opening Meeting
(To be submitted by bidders on official letter-head of the company)

No Dated
To, The Director Jharkhand Renewable Energy Development Agency Plot No. 328/B, Road No. 4, Ashok Nagar, Ranchi 834002

Subject: Authorizing letter for attending Bid Opening Meeting of Notice Inviting Bid No...... for bid on Solar Home Lighting System

Sir,





We hereby authorize	(Name & Designation) to attend the
Bid Opening Meeting to be held on at JRED	A on behalf of our company. He is also
authorized to provide any clarification, if any, and sig	ning of documents, etc. at the time of
opening and such clarification/ documents shall be bin	ding on us. The specimen signature of
authorized person is as follows:	

(Specimen Signature) Name & Designation Yours faithfully, (Authorized Signatory)/ CEO Name Designation Company Seal





# Proforma - V Jharkhand Renewable Energy Development Agency NIB No JREDA/SPV/1/SHLS/2007-08 Bid Proforma - Solar Home Lighting System Part -II: Technical & Commercial Part

1.	(a) Name of the manufacturer / supplier	:
	(b) Postal Address	:
	(c) Telephone No., Fax No., E-mail	
	(d) GPS Co-ordinate of registered office, Factory	:
	campus and photographs of registered office &	
	Factory.	
2.	Name and designation of the authorized signatory	:
	to whom reference shall be made.	
3.	Nature of firm (individual/Partnership/Pvt.Ltd./	:
	Public Ltd. Co./ Public Sector)	
	[Attach attested copy] and photographs of MD or	
	Two Directors of the company.	
4.	Registration No.	:
<b>5.</b>	Financial capability	:
	(Attach certificate of financial capability from	
6	Bank/Financial Institution)  Specify the item originally manufactured	
6. 7.	Specify the item originally manufactured % Growth in Net Worth in last three years	•
<b>8.</b>	Name of govt. agencies to whom the manufacturer	•
0.	supplied during last 3 years (with supporting	•
	document)	
9.	Performance Certificate from Govt. agency	•
10.	Year of starting of manufacturing of PV component	i
11.	International standard awarded	i
	(Attach photocopy of certificate)	
<b>12.</b>	Installed capacity for solar product /component	:
13.	Production and sales of solar component in last	:
	three years	
14.	Total sales of PV product during the last three	:
	years.	
15.	Name of material and model type offered	:
16.	Name of the work	:
17.	Name of manufacturer of Solar Home Lighting	:
	System with full address	
	(i) SPV SHLS	
	(ii) PV Module	
	(iii) Control Electronics/Charge Controller	
	(iv) Battery	





19. Acceptance of terms of payment 20. Acceptance of penalty clause 21. Validity of the offer is valid up to 22. Particulars of Earnest Money Deposit [Amount, Bank Draft No. (Attach evidence) 23. Particulars of payment for purchase of bill of quantity & specification (Attach evidence) 24. Indicate delivery period 25. Acceptance of the technical specifications. (If not accepted, attach relevant technical specification duly approved and certified by designated competent authority) 26. Whether attested photocopy of BIS Certificate and/or Test Certificate issued by MNRE Approved Institution/Centres attached. 27 Whether manufacturer is permanently registered as SSI unit of Jharkhand and/or with NSIC. (Attach photocopy) 28. Place Where materials will be manufactured/assembled and place where materials will be available for inspection. 29. Details of any existing service network in Jharkhand (Name & Address of service centre, year of opening) 30. Other details and remarks, if any	18.	Quantity offered: CFL based SHLS	: Nos.
21. Validity of the offer is valid up to  22. Particulars of Earnest Money Deposit [Amount, Bank Draft No. (Attach evidence)  23. Particulars of payment for purchase of bill of quantity & specification (Attach evidence)  24. Indicate delivery period  25. Acceptance of the technical specifications. (If not accepted, attach relevant technical specification duly approved and certified by designated competent authority)  26. Whether attested photocopy of BIS Certificate and/or Test Certificate issued by MNRE Approved Institution/Centres attached.  27. Whether manufacturer is permanently registered as SSI unit of Jharkhand and/or with NSIC. (Attach photocopy)  28. Place Where materials will be manufactured/assembled and place where materials will be available for inspection.  29. Details of any existing service network in Jharkhand (Name & Address of service centre, year of opening)	19.	Acceptance of terms of payment	:
22. Particulars of Earnest Money Deposit [Amount, Bank Draft No. (Attach evidence)  23. Particulars of payment for purchase of bill of quantity & specification (Attach evidence)  24. Indicate delivery period  25. Acceptance of the technical specifications. (If not accepted, attach relevant technical specification duly approved and certified by designated competent authority)  26. Whether attested photocopy of BIS Certificate and/or Test Certificate issued by MNRE Approved Institution/Centres attached.  27 Whether manufacturer is permanently registered as SSI unit of Jharkhand and/or with NSIC. (Attach photocopy)  28. Place Where materials will be manufactured/assembled and place where materials will be available for inspection.  29. Details of any existing service network in Jharkhand (Name & Address of service centre, year of opening)	20.		:
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quantity & specification (Attach evidence)  24. Indicate delivery period  25. Acceptance of the technical specifications. (If not accepted, attach relevant technical specification duly approved and certified by designated competent authority)  26. Whether attested photocopy of BIS Certificate and/or Test Certificate issued by MNRE Approved Institution/Centres attached.  27. Whether manufacturer is permanently registered as SSI unit of Jharkhand and/or with NSIC. (Attach photocopy)  28. Place Where materials will be manufactured/assembled and place where materials will be available for inspection.  29. Details of any existing service network in Jharkhand (Name & Address of service centre, year of opening)		[Amount, Bank Draft No. (Attach evidence)	
(Attach evidence)  24. Indicate delivery period : : : : : : : : : : : : : : : : : : :	23.	Particulars of payment for purchase of bill of	:
<ul> <li>24. Indicate delivery period : Acceptance of the technical specifications. (If not accepted, attach relevant technical specification duly approved and certified by designated competent authority)</li> <li>26. Whether attested photocopy of BIS Certificate : and/or Test Certificate issued by MNRE Approved Institution/Centres attached.</li> <li>27 Whether manufacturer is permanently registered as : SSI unit of Jharkhand and/or with NSIC . (Attach photocopy)</li> <li>28. Place Where materials will be manufactured/assembled and place where materials will be available for inspection.</li> <li>29. Details of any existing service network in Jharkhand (Name &amp; Address of service centre, year of opening)</li> </ul>		quantity & specification	
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designated competent authority)  26. Whether attested photocopy of BIS Certificate and/or Test Certificate issued by MNRE Approved Institution/Centres attached.  27 Whether manufacturer is permanently registered as SSI unit of Jharkhand and/or with NSIC. (Attach photocopy)  28. Place Where materials will be manufactured/assembled and place where materials will be available for inspection.  29. Details of any existing service network in Jharkhand (Name & Address of service centre, year of opening)		•	
<ul> <li>Whether attested photocopy of BIS Certificate and/or Test Certificate issued by MNRE Approved Institution/Centres attached.</li> <li>Whether manufacturer is permanently registered as SSI unit of Jharkhand and/or with NSIC. (Attach photocopy)</li> <li>Place Where materials will be manufactured/assembled and place where materials will be available for inspection.</li> <li>Details of any existing service network in Jharkhand (Name &amp; Address of service centre, year of opening)</li> </ul>			
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Institution/Centres attached.  Whether manufacturer is permanently registered as : SSI unit of Jharkhand and/or with NSIC . (Attach photocopy)  Place Where materials will be manufactured/assembled and place where materials will be available for inspection.  Details of any existing service network in : Jharkhand (Name & Address of service centre, year of opening)	<b>26.</b>		:
<ul> <li>Whether manufacturer is permanently registered as SSI unit of Jharkhand and/or with NSIC. (Attach photocopy)</li> <li>Place Where materials will be manufactured/assembled and place where materials will be available for inspection.</li> <li>Details of any existing service network in Jharkhand (Name &amp; Address of service centre, year of opening)</li> </ul>			
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<ul> <li>(Attach photocopy)</li> <li>28. Place Where materials will be manufactured/assembled and place where materials will be available for inspection.</li> <li>29. Details of any existing service network in :  Jharkhand (Name &amp; Address of service centre, year of opening)</li> </ul>	27	- · · · · · · · · · · · · · · · · · · ·	:
<ul> <li>28. Place Where materials will be manufactured/assembled and place where materials will be available for inspection.</li> <li>29. Details of any existing service network in Jharkhand (Name &amp; Address of service centre, year of opening)</li> </ul>			
manufactured/assembled and place where materials will be available for inspection.  29. Details of any existing service network in :     Jharkhand ( Name & Address of service centre, year of opening)			
will be available for inspection.  29. Details of any existing service network in  Jharkhand (Name & Address of service centre, year of opening)	28.		
29. Details of any existing service network in : Jharkhand (Name & Address of service centre, year of opening)		<u> </u>	
Jharkhand (Name & Address of service centre, year of opening)		•	
year of opening)	29.	· · · · · · · · · · · · · · · · · · ·	:
30. Other details and remarks, if any	•	• •	
	30.	Other details and remarks, if any	:

(Specimen Signature)
Name & Designation
Yours faithfully,

(Authorized Signatory)/ CEO Name Designation Company Seal

(Separate sheet may be used for giving detailed information in seriatim duly signed. This bid proforma must be submitted duly signed in case separate sheet is submitted).





Proforma - VI

# JHARKHAND RENEWABLE ENERGY DEVELOPMENT AGENCY NIB No. JREDA/SPV/1/SHLS/2007-08 Bid Proforma - Solar Home Lighting System Part -II: Technical & Commercial Part Information in Support of Meeting Eligibility Condition

Details of orders received & executed by manufacturer/supplier for supply of Solar Home Lighting System to different Govt. Organisation/JREDA/ Other Nodal Agency/Important Organisation & Institution during last three years.

S1 No	Name of Agency/ Organisatio n	P.O. No./dat e Ordered Qty	Name of Mode 1	Deliver y schedul e	Qty. supplie d within deliver y schedul e Qty	Qty. supplie d within deliver y schedul e Qty	Date of full suppl Y
1	2	3	4	5	6	7	8

Note: (1) Attach Photocopies of Purchase Orders
(2) Attach Photocopies of certificate of satisfactory performance issued by concerned Agency/Organisation

Signature	οf	Authorised	Signatory
Name			
Designa	tio	on	
Compan	у	Seal	

(Separate sheet may be used for giving detailed information in seriatim duly signed. This bid proforma must be submitted duly signed in case separate sheet is submitted).





#### Proforma - VII

# JHARKHAND RENEWABLE ENERGY DEVELOPMENT AGENCY NIB No JREDA/SPV/1/SHLS/2007-08 Bid Proforma - Solar Home Lighting System Format for Price

Sl. No.	Item	UNIT Prices inclusive of all taxes and duties, transportation, testing, etc.	Total Quantity Offered	Total price offered inclusive of all taxes and duties, transportation, testing etc. (Rupees)
1	Supply of CFL based Solar Home lighting system as per scope.	3	4	5

#### Note:

- 1. Price quoted for Solar Home Lighting System 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. F.O.R. destination at any site in Jharkhand and inclusive of performance testing and training. **Percentage/amount of various factor considered in the unit price shall be mentioned here.**
- 2. Certified that rates quoted for Solar Home Lighting System are as per specifications, terms & conditions mentioned in the bid document

Signature	of	Authorised	Signatory
Name			
Designa	atio	on	
Compar	ıv s	Seal	

(Separate sheet may be used for giving detailed information in seriatim duly signed. This bid proforma must be submitted duly signed in case separate sheet is submitted).





Proforma – VIII

Jharkhand Renewable Energy Development Agency NIB No.: JREDA/SPV/1SHLS/2007-08 Bid Proforma - Solar Home Lighting System

Technical & Commercial Part: Part - II

Format for Warranty Card to be supplied with each Solar Home Lighting System

(To be supplied by bidders on official letter-head of the company) WARRANTY CARD

#### Solar Home Lighting System

- 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) Warranty valid upto :
- 5. Details of Battery:
- a) Name of the Manufacturer:
- b) Make:
- c) Model:
- d) Batch/Serial No(s) :
- e) Month & year of Manufacture :
- f) Rated V & AH capacity at C/20 or C/10 rated
- at 27<sub>0</sub>C:
- g) Warranty valid up to :
- 6. Details of Electronics & other BOS item:
- a) Name of the Manufacturer:
- b) Make:
- c) Model:
- d) Serial No(s):
- e) Month & year of Manufacture :
- f) Warranty valid up to :
- 7. Designation & Address of the person to be contacted for claiming Warranty obligations:

Place & Date:

(Signature)

Name & Designation

Name & Address of the Manufacturer / Supplier, (SEAL)





Proforma - IX

Jharkhand Renewable Energy Development Agency
NIB No.: JREDA/SPV/1/SHLS/2007-08
Bid Proforma - Solar Home Lighting System
Technical & Commercial Part: Part - II
Format for No Deviation Confirmation
NO DEVIATION CONFIRMATION
(Bid Document No.)

To,
The Director,
Jharkhand Renewable Energy Development Agency
Plot No. 328/B, Road No. 4, Ashok Nagar,
Ranchi. - 834002

Dear Sir,

We understand that any deviation/ exception in any form may result in rejection of bid. We, therefore, certify that we have not taken any exceptions/ deviations anywhere in the bid and we agree that if any deviation is mentioned or noticed, our bid may be rejected.

Note: This NO DEVIATION CONFIRMATION should be written on the letterhead of the bidder indicating tender ref. no. duly signed and stamped with date by a person competent and having the power of attorney to bind the bidder.

Signature	of	Authorised	Signatory Name
Designa	atio	on	
Compar	ıy s	Seal	





Proforma - X A

PROFORMA FOR BANK GUARANTEE IN LIEU OF EARNEST MONEY DEPOSITE (TO BE SUBMITTED IN Rs. 50/- NON-JUDICIAL STAMP PAPER TO BE PURCHASED IN THE NAME OF THE ISSUING BANK.)

Date:

No	Date:	
To,		
WHEREAS(Supplier's	s name) (there	einafter referred to as
"Supplier"), a Company reg	istered unde	r the Companies Act.,
1956 and having its register	red office at	is required to
deposit with you, the Purcha	aser, by way	of Earnest Money. Rs.
	n connection v	with its Tender for the
work was reference to Tender	Enquiry No	datedas per
specification and terms and	conditions	enclosed therein AND.
WHEREAS the Supplier as per C	lause No	of Instructions to Bid
has agreed to establish a Bar	nk Guarantee	in Your favour through
us valid up to(da	ite) instead	of deposit of Earnest
Money in cash AND.		
WHERAS you have agreed to acco	ept a Bank Gua	arantee from us in
instead of Earnest Money Depos	sit in cash fi	rom the Supplier.
1. We (Bank) hereby agree and und	dertake to pay you	on demand the said amount of Rs.
(Rupees	on	ly) without any protest or demur
in the event the Supplier / Tenderer after su	bmission of his Ten	der, resiles from or withdraws his
offer or modifies the terms		
not acceptable to you or exp		
the order placed and/ or let		
Supplier/Tenderer for the wor		
date 2. Your decision as to		
resiled from or has withdraw		
and conditions there of in a		
expressed his unwillingness		
Letter of Intent issued by you		e oraci pracea ana/or





shall be final and binding on us and we shall not be entitled to question the same.

- 4. This Guarantee shall remain valid and in full force and effect upto ............ 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 enure 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 above named Bank. For and on behalf of (Banker's Name)





	MANAGER
Address	•••••
•••••	•••••





Proforma-X B

### PROFORMA FOR BANK GUARANTEE TOWARDS PERFORMANCE GUARANTEE (SECURITY) DEPOSIT

(To be executed on non-judicial stamp paper of appropriate value)

Name of the BankBank Limited
AddressGuarant
ee
No
of Expirylimit to liability Rs
Contract
No
For (Name of Work)
Subject : Security Deposit
Date2007
GUARANTEE BOND
1. In consideration of the JHARKHAND RENEWABLE ENERGY DEVELOPMENT
AGENCY (JREDA) (hereinafter called the Company ) having agreed to
<pre>exempt (hereinafter called the said contractor(s)</pre>
from the demand under the terms and conditions of an Agreement
dated made between and for
(hereinafter called the said Agreement) of security
deposit for the due fulfillment by the said contractor(s) of the
terms and conditions contained in the said Agreement, on
production of a bank guarantee for Rs (Rupees
only) we
(indicate Name of the Bank) (hereinafter
referred to as the Bank) at the request of
(Contractor(s)) do hereby undertake to
pay to the Company an amount not exceeding Rs.
against any loss or damage caused to
or suffered or would be caused to or suffered by the Company by
reason of any breach by the said contractor(s) of any of the
terms or conditions contained in the said Agreements.
2. We(indicate the name of the
Bank) do hereby undertake to pay the amounts due and payable
under this guarantee without any demur, merely on a demand from
the Company stating that the amount claimed is due by way of loss
or damage caused to or would be caused to or suffered by the
Company by reason of breach by the said contractor(s) of any of
the terms or conditions contained in the said Agreement or by
reason of the contractor(s) failure to perform the said
Agreement. Any such demand made on the bank shall be conclusive
as regards the amount due and payable by the Bank under this
guarantee. However, our liability under this guarantee shall be
restricted to an amount not exceeding Rs
3. We undertake to pay to the Company any money so demanded
notwithstanding any dispute or disputes raised by the
<pre>contractor(s)/supplier(s) in any suit or proceeding pending</pre>
before any court or Tribunal or arbitration relating thereto our





liability under these presents being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and contractor(s)/supplier(s) shall have no claim against us for making such payment.

- (indicate the name of the bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said Agreement have been fully paid and its claims satisfied discharged till or or \_certified that the Company\_ terms conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the\_ \_(date) we shall be discharged from all liability under this guarantee thereafter. 5. We,\_ \_(indicate the name of the Bank) further agree that the Company shall have the fullest liberty without or consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the Company or any indulgences by the company to Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us. 6. This guarantee will not be discharged due to the change in the constitution of the bank or the Contractor(s)/supplier(s). (the name of the Bank) further undertake to extend the validity of this guarantee beyond the period stated in hereinabove or as extended from time to time, for such further period as may be required by the Company in
- writing before the expiry of this guarantee and upon such extension(s), all terms and conditions of this guarantee shall remain in full force till the expiry of the extended period(s).
- 8. We, \_\_(indicate the name of bank)lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Company in writing.
- 9. We have power to issue this guarantee under our Memorandum and Articles of Association and the undersigned has full powers to sign this guarantee on our behalf under power of Attorney dated and/or the granted to his resolution . . . . . . . .





passed by or	r Company	of Directors	in accordance with
our constitution.			day of 2007. (indicate the name of Bank).
		Signatu	re
In presence of			ition
1		Authori	sation No
2		Date &	Place Banker's Seal





Proforma-X C

PROFORMA FOR BANK GUARANTEE TOWARDS RELEASE OF LAST 2% PAYMENT (To be executed on non-judicial stamped paper of appropriate value)

B.G.	No	Dated	
havir as repug repre contr	HEREAS JHARKHAND RENEWABLE ENER  ng its office at		red to unless legal nto a on M/s as
or c	context include their legal regns) for on the	presentatives, successor	s and
terms contr dt herei "sai	s and conditions as set out ract No. / P.O No	nents forming part the concinctude all amendo	hereof
entir	ract(s)/Supplier(s) has agreed re contract and guarantees i s executed through any other ag	ts performance includin	
that Guara of their war guara execu	WHEREAS one of the conditions "Contractor(s) shall furnis antee from a bank for% (	sh to the Purchaser a Percent) of the total ue and faithful performan "said contract" incations" and the performant contractor(s)/Supplier(s) "said contract" and almate/final% payment	Bank value nce of luding rmance for lso in
agree guara stati bindi the condi liabi and/c cause reaso of the	e	ant due and payable under on a demand from the Company, which is final a by reason of default may be reforming any of the te including warranty/of ing the performance guar obligation or loss or of or suffered by the Companient ontractor(s)/Supplier(s) of contract. Any such demand be conclusive as regard	r this ompany & ade by erms & defect rantee damage any by of any d made ds the





- 3. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s)/Supplier(s) in any suit or proceeding pending before any
- office, court or tribunal relating thereto, our liability under this present guarantee being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under. Our liability to pay is not dependent or conditional on the Purchaser proceeding against the Contractor(s)/Supplier(s).
- 4. The guarantee herein contained shall not be determined or affected or suspended by the liquidation or winding up, dissolution or constitution or insolvency of the said Contractor(s)/Supplier(s) but shall in all respect and for all purposes be binding and operative until payment of all money due or liabilities under the said Contract(s)/Order(s) are fulfilled.
- 5. We ....... Bank further agree that the guarantee herein contained shall remain in full force and effect during the period would be taken for performance of the Contract(s)/Order(s) and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said have been fully paid and its claims Contract(s)/Order(s) satisfied or discharged or till a duly authorized officer of the Company certifies that the terms and conditions of the said Contract(s)/Order(s) have been fully and properly carried out by the said Contractor(s) and accordingly discharges the guarantee.
- 6. We ...... Bank further agree with the Company that the company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract(s)/Order(s) extend the time of performance by the Contractor(s)/Supplier(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s)/Supplier(s) and to forbear or enforce any of the terms and conditions relating to the said Contract(s)/Order(s) and we shall not be relieved from our liability by reason of any such variations, or extension being granted to the said Contractor(s)/Supplier(s) or for any forbearance, act or omissions on the part of the Company or any indulgence by the Company to the said Contractor(s)/ Supplier(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have affect of so relieving us.





the date of expiry we shall be discharged from all the liabilities under this guarantee.

Date: ..... Bank

Corporate Seal of the Bank By its constitutional Attorney

Signature of duly Authorized person On behalf of the Bank With seal & signature code