

Bid Specifications for Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis at 24 sites / locations in the state of Jharkhand.

(JREDA)

Government of Jharkhand

Tender Reference No.:- 13/JREDA/SCSS/20-21



Jharkhand Renewable Energy Development Agency (JREDA)

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

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

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

Table of Contents

e-Procurement Notice	3
List of Important dates & details of Bids.....	4
Instructions to Bidders	6
Notice Inviting Bid	8
Instructions to Bidders (ITB).....	12
General Terms & Conditions	25
Technical Specification.....	31
Annexure-1: Format for Covering Letter.....	36
Annexure-2: Check List for Technical bid	37
Annexure-3: Information about the Bidding Firm.....	39
Annexure-4: Declaration by the Bidder	40
Annexure-5:Format For Financial Requirement – Annual Turnover	41
Annexure-6: Format for Financial Requirement - Net Worth Certificate	42
Annexure -7: Format of Power of Attorney for Signing Bid.....	43
Annexure-8: Details of Orders Received and Executed in Last 7 Years	44
Annexure-9: Price Bid	45
Annexure-10: Format for Submitting Bank Guarantee for Earnest Money Deposit	47
Annexure-11: Contact Person for the NIB.....	49
Annexure-12: Certificate of Delivery of Solar Cold Storage unit Systems received from the Consignee as Proof of Compliance by the Supplier.....	49
Annexure 13 Certificate of Installation of Solar Cold Storage unit Systems received from the Consignee as Proof of Compliance by the Supplier.....	50
Annexure-14: Format for Quarterly O&M and CMC Report.....	52

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

3rd Floor, S.L.D.C. Building, Kusai Colony, Doranda, Ranchi-834002.
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E-mail: info@jreda.com; Website: www.jreda.com

e-Procurement Notice

Tender reference no.: 13/JREDA/SCSS/20-21

Dated: 14.12.2020

1	Name of the work	Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis in the state of Jharkhand.
2	Total quantity (Nos.)	24 Nos.
3	Estimated cost (Rs.)	3,00,00,000/-
4	Period of contract	12 (Twelve) Months
5	Period of Completion	04 (Four) Months
6	Date of publication of NIT on website: http://jharkhandtenders.gov.in	21.12.2020 (Monday)
7	Date & time of Pre-bid meeting	05.01.2021 (Tuesday) at 1.00 P.M.
8	Last date & time for receipt of online bids	11.01.2021 (Monday) upto 05:00 PM
9	Submission of original copies of Bid fee & EMD (Offline)	11.01.2021 and 12.01.2021 up to 5.00 P.M.
10	Technical Bid Opening Date	13.01.2021 (Wednesday) at 3.00 P.M.
11	Name & address of office inviting tender	Director, Jharkhand Renewable Energy Development Agency(JREDA) 3 rd Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002 (Jharkhand)
12	Contact no. of procurement officer	0651-2491163/67/61
13	Helpline no. of e-procurement	0651-2491163/67/61

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

Sd/-
Director,
JREDA, Ranchi

Section -1
NIB No.:13/JREDA/SCSS/20-21

List of Important dates & details of Bids

1.	Name of work	Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis at 24 sites / locations in the state of Jharkhand.
2	Tender reference no.	13/JREDA/SCSS/20-21
3	Completion period	06 (Six) Months
4	Mode of submission of tender	Online through www.jharkhandtenders.gov.in
5	Tentative Quantity	24 Nos. The quantity mentioned above is tentative and subject to increase or decrease depending on the actual requirement at the time of placing order and resources available. The estimated cost is about Rs. 3.00 Crores
6	Maximum/Minimum lot size	Maximum: 8 Nos. Minimum: 4 Nos. No bidder shall submit bid for quantity less than minimum lot size & more than maximum lot size.
7	Cost of Bid document (Non-refundable)	❖ Rs.10, 000/- (Rupees Ten Thousands only) for General Bidder. ❖ Rs. Nil for MSE of Jharkhand.
8	Earnest Money Deposit	For General Bidder: Rs. 100,000/- for the lot size of 4 Nos. The bidders quoting for higher capacities are required to submit EMD in the same proportion. For MSE of Jharkhand: Nil.
9	Date of publication of NIT on website: http://jharkhandtenders.gov.in	21.12.2020 (Monday)
10	Date & time of Pre-bid meeting	05.01.2021 (Tuesday) at 1.00 P.M.
11	Period of downloading of bidding documents	Start date: 23.12.2020 Time: 10.00 AM
		End date: 11.01.2021 Time: 05.00 PM
12	Bid online submission	Start date: 05.01.2021 Time: 10.00 AM
		End date: 11.01.2021 Time: 05.00 PM
13	Submission of original copies of Bid fee & EMD (Offline)	11.01.2021 and 12.01.2021 up to 5.00 P.M.
14	Technical bid opening date	13.01.2021 (Wednesday) at 3.00 P.M.
15	Authority inviting bids	Director, Jharkhand Renewable Energy Development Agency(JREDA)
16	Address	Jharkhand Renewable Energy Development Agency(JREDA) 3 rd Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002. Ph.No: 2491161,Fax No: 0651-2491165 Web site: www.jreda.com E-mail: info@jreda.com

Note: The tender fee and Earnest Money Deposit (EMD) in original must be submitted between all working days from 11.01.2021 and 12.01.2021 up to 5.00 P.M.. If tender fee and EMD are not received before mentioned date and time, tender shall be considered invalid. MSE seeking exemption from Bid fee & EMD, shall submit documentary evidence supporting the exemption.

Place for receiving tender fee & EMD

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

Instructions to Bidders

A. Detailed instructions & documents to be furnished for online bidding

1. The guidelines to submit bid online can be downloaded from website <http://.Jharkhandtenders.gov.in>
2. The interested bidders can download the bid from the website “<http://.Jharkhandtenders.gov.in>”.
3. To participate in bidding process, bidders have to get ‘Digital Signature Certificate (DSC)’ as per Information Technology Act-2000 to participate in online bidding. This certificate will be required for digitally signing the bid. Bidders can get above mention digital signature certificate from any approved vendors (CCA). Bidders, who already possess valid Digital Certificates, need not to procure new Digital Certificate.
4. The bidders have to submit their bids online in electronic format with digital Signature. The bids without digital signature will not be accepted. No proposal will be accepted in physical form.
5. Bids will be opened online as per time schedule mentioned in section 1
6. Bidders should get ready with the scanned copies of cost of documents & EMD as specified in the tender document. Before submission of online bids, bidders must ensure that scanned copy of all the necessary documents have been attached with bid.
7. Bidder have to produce the original D.D. towards tender fee & EMD in approved form to the authority “Director, Jharkhand Renewable Energy Development Agency, Ranchi” on the date & time as mentioned in the NIT failing which bidder will be disqualified. The details of cost of documents, EMD specified in the tender documents should be the same as submitted online (scanned copies) otherwise tender will summarily be rejected.
8. Uploaded documents of valid successful bidders will be verified with the original before signing the agreement. The valid successful bidder has to provide the originals to the concerned authority. The department will not be responsible for delay in online submission due to any reason.
9. All the required information for bid must be filled and submitted online. If the bid is not found to be uploaded online in the website (<http://.Jharkhandtenders.gov.in>), bid shall be rejected even though the bidder/s have submitted Bid fee & EMD. No hard copy is required to be submitted in the office of JREDA except original Bid fee & EMD.
- 10. The quoted rates should be in line with “ Jharkhand P.W.D. Code, which is implemented by vide Sankalp letter no. 2146(s) Dated 09/09/2020“**
11. Other details can be seen in the bidding documents.

B. Details of documents to be furnished for online bidding

1. Scanned copies of the following documents to be up-loaded in pdf format on the website <http://Jharkhandtenders.gov.in>.
 - i. D. D. towards Tender fee.
 - ii. Duly pledged EMD (in case of BG as per Annexure)
 - iii. GST certificate.
 - iv. PAN Card
 - v. Firm's registration certificate/ Registration certificate of MSE of Jharkhand.
 - vi. Certificate issued by Industry Dept. or MNRE for system/components manufacturing.
 - vii. Audited Balance sheet of last three years with Income Tax Return.
 - Viii. IEC/IS certificate of Solar PV module.
 - ix. Test certificate of Li Ferro Phosphate battery as per BIS (in case storage is from battery)
2. Scanned Copies of the Annexure as per the enclosed formats should be uploaded after converting the same to .pdf format.
 - i. Annexure-1: Covering letter.
 - ii. Annexure-2: Checklist for Technical Bid.
 - iii. Annexure-3: Information about the bidding firm.
 - iv. Annexure-4: Declaration by the bidder.
 - v. Annexure-5: Annual Turn over.
 - vi. Annexure-6: Net Worth certificate.
 - vii. Annexure-7: Format for power of attorney for signing of bid.
 - viii. Annexure-8: Proof of supply/execution of Solar Cold storage Unit as per section 4/ Experience Requirement. Attach copy of orders & satisfactory performance/completion certificate.
3. Duly filled in & digitally signed Price Bid.
4. Uploaded documents of valid successful bidders will be verified with the original before signing the agreement. The valid successful bidder has to provide the originals to the concerned authority on receipt of such letter, which will be sent through registered post.
5. SBD is not to be uploaded by the bidder. The bidder has to give affidavit stating agree / disagree on the conditions in the SBD. The bidders, who disagree on the conditions of SBD, cannot participate in the tender.

Section-3

NIB No: 13/JREDA/SCSS/20-21

Notice Inviting Bid

Sub: Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis at 24 sites / locations in the state of Jharkhand.

Preamble:

As part of Solar Photovoltaic Programme for the agriculture sector, JREDA invites bid for " **Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis at 24 sites / locations in the state of Jharkhand.**" for short listing of experienced & eligible bidders to whom work shall be allocated for successful execution of the project in a defined time frame. **No bidders shall submit bid for quantity less than minimum lot size and more than maximum lot size.**

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

1. The bidder should be:
 - (a) MNRE approved manufacturer/ MNRE approved PV System integrator/ NGO (Agriculture Sector)/Startup (Renewable Energy /Agriculture Business)
 - or
 - (b) a registered manufacturing company/Firm/ Corporation in India (including MSEs of Jharkhand) manufacturing at least one of the major components of the Solar Cold Storage Unit or **PV System Integrator duly certified by DIC or concerned Industry Department. Authorized dealers companies/firms/ corporations and subcontractors are not eligible to participate.**
2. "Micro & Small Enterprises (MSEs) of Jharkhand should be registered with the Directorate of Industries/District Industries Centre, Industrial Area Development Authority and National Small Industries Corporation Limited or any other body specified by Directorate of Industries, Jharkhand Govt. from time to time and other industrial units/enterprises which have submitted IEM and been issued Date of Production (DOP) certificate by GM, DIC/MD, Industrial Area Development Authority/Director, Industries, GoJ

Or

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

3. MSEs units/bidder has to submit relevant document to substantiate above claim.

4. MSEs of Jharkhand State availing preferential treatment should fulfill all the criteria as per Clause-3.0 (Applicability) of Jharkhand Procurement Policy 2014 and its amendment thereof and shall submit an undertaking with respect to (i) to (iv) of Clause 3.0 including a categorical statement that the products/services being supplied to JREDA has been manufactured/created by the unit located in Jharkhand only, giving details of batch no./date or any other identifiable tag as per prevalent established practice. The bidder should be a functional organization. To substantiate this claim, the bidder should submit the copy of balance sheet for last 3 years. These balance sheets should be duly certified by the Statutory Auditor with his stamp.
5. Registered Micro, Small Enterprise (MSE) of Jharkhand should submit the attested copy of Registration issued by the Industry Department, Govt. of Jharkhand/ Udyog Adhar

6. **Turnover Requirement:**

For General Bidder: Bidder should have the minimum average Annual Turnover of **25% of project estimated cost** derived from the last three financial years ending on 31.03.2019/20 on the basis of audited annual accounts for minimum lot size quoted. The bidder submitting the bid for higher nos. of SCSSs will require having average Annual Turnover in same higher proportion (25%).

For MSE of Jharkhand: Bidder should have the minimum average Annual Turnover of **10% of project estimated cost** derived from the last three financial years ending on 31.03.2019/20 on the basis of audited annual accounts for minimum lot size quoted. The bidder submitting the bid for higher nos. of SCSSs will require having average Annual Turnover in same higher proportion (10%).

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

7. **Net worth Requirement:**

For General Bidder: Bidder should have Positive Net Worth of minimum 10 % of cost of minimum lot size quoted and thereafter in same proportion for higher quantity as on 31.03.2019/20 on the basis of audited annual accounts.

For MSE of Jharkhand: Bidder should have Positive Net Worth of minimum 5 % of cost of minimum lot size quoted and thereafter in same proportion for higher quantity as on 31.03.2019/20 on the basis of audited annual accounts.

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

8. **Experience Requirement:**

For General Bidder: Bidder should have cumulative experience of executing contracts of supply of at least **4 nos** of Solar Cold Storage System/Augmentation of conventional cold storage system to solar energy based to any SNA / Govt. Organization / PSU/co-operative or Society /any private organization in the last seven years ending up to date of advertisement of this tender.

For MSE of Jharkhand: Bidder should have cumulative experience of executing contracts of supply of at least **2 nos** of Solar Cold Storage System/Augmentation of conventional cold storage system to solar energy based to any SNA / Govt. Organization / PSU/co-operative or Society /any private organization in the last seven years ending up to date of advertisement of this tender.

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

9. The offered PV Modules should be as per **IEC61215 edition II / BIS 14286** from an NABL or IECQ accredited laboratory standards having test certificates prescribed by MNRE. The valid test certificate with authorization letter of the manufacturer should be uploaded as annexure. The offered PV Modules should be Crystalline Silicon PV Modules as per IEC 61215 Standards or IS14286 and having test certificates prescribed by MNRE. In addition, the modules must conform to IEC 61730 part I – requirement for construction and part – II requirement for testing, for safety qualification or equivalent IS. The offered modules shall be of standard make, specifications of any reputed brand approved by MNRE having test certificates issued from **MNRE specified** test laboratories.
10. The Participant should have valid GST No.
11. The Bidder should confirm that they have the resources and capability to supply the offered quantity within the scheduled period in the form of an undertaking.
12. Bidders have to download the bid document from website (www.jharkhandtenders.gov.in) and submit the scan copy of the cost of the bid document to be submitted in shape of demand draft of Rs. **10,000/-** (Rupees Ten thousand only) in favour of “Director, JREDA” on any Indian Nationalized Bank/Scheduled Bank, payable at “Ranchi”. The tender fee in original must be submitted from **11.01.2021 and 12.01.2021** up to 5.00 P.M. in the office of JREDA.
13. Bidders should submit in **Part – I (Technical Bid)** the earnest money in the form of Bank Guarantee of requisite value as mentioned in “Section-1 (List of Important dates & details of Bids)”. The Bank Guarantee shall be made in favour of “**Director, JREDA**” payable at Ranchi from any Indian Nationalized bank/Scheduled bank. The bank guarantee shall remain **valid for 12 months**. Only Original Bank Guarantee shall be accepted.

(II) Award of Work and Empanelment Procedure after opening of Financial Bid:

1. The bidders who are found to be successful in technical bid and accepts the lowest rate received in the bid shall be empaneled for solar cold storage system for 1 year.
2. The lowest rate i.e. the L1 rate received would be the appropriate rate for awarding the work.
3. Allocation of the quantity to MSE registered in Jharkhand will be made as per the provisions of Jharkhand Procurement Policy 2014. The MSE should be functional & having running production unit in Jharkhand and should fulfill all the criteria as fixed in Jharkhand Procurement Policy 2014.
4. JREDA will allot the work to L1 bidder at L1 rate on the basis of quoted quantity & bid capacity, whichever is lower.
5. Other bidders who accepts the L1 rate shall be empaneled and quantity shall be allocated on pro-rata basis of their bid capacity evaluated in their bid.
6. The successful bidders, who either fail to enter into agreements for the allocated quantity or fail to execute the work as per the work order, their EMD/Security deposit shall be forfeited and will be blacklisted under intimation to MNRE and other Nodal Agencies in the Country.
7. Quantity of SCSS (24 nos.) shown in the bid is only indicative which may increase or decrease as per the requirement of JREDA.

SECTION-4

NIB No: 13/JREDA/SCSS/20-21

Instructions to Bidders (ITB)

A. General

1. Scope of Bid

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

2. Source of Funds

- 2.1. The JREDA has decided to undertake the works of “**Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis at 24 sites / locations in the state of Jharkhand.**” through funds from the Government of Jharkhand, to be implemented through JREDA.

3. Eligible Bidders

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

4. Qualification of the Bidder

- 4.1. All bidders shall provide in Section 3, Forms of Bid and Qualification information, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary.
- 4.2. All bidders shall include the following information and documents with their bids in Section 3, Qualification Information unless otherwise stated in the Notice Inviting Bid/ITB.
 - a) Copies of original documents defining the constitution or legal status, place of registration, and principal place of business.
 - b) Copy of written power of attorney of the signatory of the Bid to commit the Bidder.

- c) Total monetary value of the similar nature of the works performed for each of the last seven years;
 - d) Experience in works of a similar nature and size for each of the last seven years, and details of works in progress or contractually committed with certificates from the concerned officer or competent authority.
 - f) Reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the last three years.
 - g) Authority to seek references from the Bidder's bankers;
 - h) Information regarding any litigation or arbitration during the last seven years in which the Bidder is involved, the parties concerned, the disputed amount, and the matter;
 - i) the proposed methodology and programme of construction, backed with equipment and material planning and deployment, duly supported with broad calculations and Quality Management Plan proposed to be adopted, justifying their capability of execution and completion of the work as per technical specifications and within the stipulated period of completion.
- 4.3. Bids from joint venture are not allowed.
- 4.4. Even though the bidders meet the qualifying criteria, they are subject to be disqualified if they have:
- i) made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or
 - ii) Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures
 - iii) Participated in the previous bidding for the same work and had quoted unreasonably high or low bid prices and could not furnish rational justification for it to JREDA.

5. One Bid per Bidder

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

6. Cost of Bidding

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

7. Site Visit

- 7.1. Site will be allocated to successful bidders as per the demand received, which may be across the State. The bidder shall have no claim regarding economy of scale, choice of district/region in the State. However, bidder may visit site after allocation of site.

B. Bidding Documents

8. Content of Bidding Documents

- 8.1. The set of bidding documents comprises the documents listed below and addenda issued in accordance with Clause 10 of ITB.
1. Notice Inviting Tender
 2. Instructions to Bidders
 3. Qualification Information
 4. Conditions of Contract
 5. Specifications
 6. Bill of Quantities
 8. Form of Bid
 9. Form of Bank Guarantee.
 10. Annexures
- 8.2. The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms and specifications, bill of quantities, forms in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 23 hereof, bids, which are not substantially responsive to the requirements of the Bid Documents, shall be rejected.

9. Clarification of Bidding Documents and Pre-bid Meeting

- 9.1. A prospective Bidder requiring any clarification of the bidding documents may notify JREDA in writing at the JREDA's address indicated in the Notice Inviting Tenders. Copies of the JREDA's response will be uploaded in form of corrigendum on our website www.jreda.com.
- 9.2. Pre-bid meeting will be held on **05.01.2021 (Tuesday)** at 1.00 P.M in the Conference Hall of JREDA. The bidder or his authorized representative may attend the meeting.
- 9.3. The purpose of the such a meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage, related to specific tender.
- 9.4. The bidder is requested to submit any questions in writing or by e-mail so as to reach the JREDA not later than two days before the meeting.
- 9.5. Any modifications of the bidding documents listed in Clause 8.1 of ITB, which may become necessary as a result of the pre-bid meeting shall be made by the JREDA exclusively through the issue of an Addendum/Corrigendum pursuant to Clause 10 of ITB on website.
- 9.6. Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

10. Amendment of Bidding Documents

- 10.1. Before the deadline for submission of bids, the JREDA may modify the bidding documents by issuing addenda/Corrigendum.

- 10.2. To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the JREDA may extend, if necessary, the deadline for submission of bids, in accordance with Clause 19.2 of ITB.

C. Preparation of Bids

11. Language of Bid

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

I. Technical Bid – (Fee/Pre-Qualification/Technical Cover)

- 11.3. EMD & Tender Fee
 - a) Scanned Copy of Demand draft drawn in favour of “DIRECTOR, JREDA”, payable at Ranchi towards Cost of Tender Fee and Earnest Money Deposit as specified in the Notice Inviting Bid.
- 11.4. Pre-Qualification Details
 - a) Scanned Copy of Certificate for availability of Credit Facility for 10% of Tendered Amount from any Scheduled Commercial Bank.
- 11.5. Technical Details & Declaration
 - a) Proposed work programme (work method, time schedule and financial flow), description, and charts as necessary (Duly to be signed digitally) to comply with the requirement of the Bidding Document.
 - b) Scanned copy of an Affidavit by the Bidder that he/she has accepted the S.B.D.
- 11.6. Technical Details of documents
Scanned copies/Prescribed Formats of Documents to be uploaded in .pdf format file duly digitally signed by the bidder.
 - a) Income Tax clearance certificate/PAN Card
 - b) GST certificate.
 - c) Proof of completion of similar works as notified in NIB during the last 7 years and list of similar works in hand in the prescribed formats in the ITB duly signed by the competent authority of the issuing Department (in format given in ITB)
 - d) Financial Report for the last 3 years (upto 31/3/2019/20) certified by chartered Accountant.
 - e) Annual Turn over Details certified by Chartered Accountant.
 - f) Net worth certificate certified by Chartered Accountant.
 - g) List of current litigant cases in which the bidder is involved (in format given in ITB).

- h) An affidavit for non-engagement of related persons.
- i) Bidders shall submit valid test certificate of Solar Cold Storage System issued from NABL or IECQ accredited Laboratory. The test certificate issued before 1st April 2014 will lead to outright rejection of the BID.
- j) Details of the bidder as per instruction as per Annexure of Bid should be duly digitally signed.
- k) Undertaking of Bidder that he is able to invest minimum of cash upto 10% as defined in ITB.
- l) Undertaking for validity of bid for 180 days.
- m) Any other documents as required in the clause 4.4 of the ITB.

II. Financial Bid – (Finance Cover)

- 12.1. Duly Quoted & digitally signed Bill of Quantity (BOQ) in the file supplied by JREDA in .xls format shall be uploaded.

NOTE:- All the documents should be digitally signed.

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

Section Particulars

- a) Notice inviting Tender
- b) Instruction to the bidders
- c) Conditions of Contract
- d) Contract Data
- e) Specifications
- f) Drawings if any

13. Bid Prices

- 13.1. The Contract shall be for the whole Works, as described in Clause 1.1 of ITB.
- 13.2. The Bidder shall adopt the Item Rate Method as specified in the Notice Inviting Bid only the same option is allowed to all the Bidders.
- 13.3. All duties, taxes, royalties and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates, prices, and total Bid price submitted by the Bidder.
- 13.4. The rates and prices quoted by the Bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment.
- 13.5. Quoted price for Solar PV based SCSS is complete in all respect as per Technical Specifications inclusive of all Central/State/Local taxes & duties, packing, forwarding, transit insurance, loading & unloading, transportation & other charges etc. for destination at any site in Jharkhand and inclusive of installation, testing, commissioning, performance testing and training.

- 13.6. Tenderers should quote their rates considering wide variation of site conditions, variation in price of different components during the year 2020-21 and keeping the quantum and quality of work in mind. If JREDA anticipates that rate is abnormally low or high, tender may be rejected.

14. Currencies of Bid

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

15. Bid Validity

- 15.1. Bids shall remain valid for a period of 180 (One hundred Eighty) days after the deadline date for bid submission specified in Clause 19 of ITB. A bid valid for a shorter period shall be rejected by the JREDA as non-responsive.
- 15.2. In exceptional circumstances, prior to expiry of the original time limit, the JREDA may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his Earnest Money. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his earnest money for a period of the extension, and in compliance with Clause 16 of ITB in all respects.

16. Earnest Money

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

- i. sign the Agreement; and/or
- ii. Furnish the required Performance Security.

17. Alternative Proposals by Bidders

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

D. Submission of Bids

18. Sealing and Marking of Bids

- 18.1. The Bidder shall place the file marked "Technical Bid"
Technical Bid: To be opened on (date and time of Technical Bid opening as per clause 20.1 of ITB.)
The Technical bid file shall only contain Original of DD towards payment of bid fee and DD or BG towards payment of EMD or Bid fee and EMD exemption certificate (for MSE of Jharkhand only).
- 18.2. The file containing the Technical Bid shall a) be addressed to the JREDA at the address provided in the Notice Inviting Bid b) bear the name and identification number of the Contract as defined in clause 1.1 of ITB; and c) provide a warning not to open before the specified time and date for Bid opening as defined in clause 20.1 of ITB.

19. Deadline for Submission of Bids

- 19.1. Complete Bids (including Technical and Financial) must be received by the JREDA at the address specified in the Notice Inviting Bid not later than the date and time indicated in the Notice Inviting Bid.
- 19.2. The JREDA may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10.3 of ITB, in which case all rights and obligations of the JREDA and the bidders previously subject to the original deadline will then be subject to the new deadline.

E. Bid Opening and Evaluation

20. Bid Opening

- 20.1. The JREDA will open the bids received (except those received late). In the event of the specified date for the submission of bids being declared a holiday for JREDA, the Bids will be opened at the appointed time and location on the next working day.

- 20.2. The files containing the technical bid shall be opened. The document marked “cost of bidding document” will be opened first and if the cost of the bidding documents is not there, or incomplete, the remaining bid documents will not be opened, and bid will be rejected.
- 20.3. In all other cases, the amount of Earnest Money, forms and validity shall be announced. Thereafter, the bidders' names and such other details as the JREDA may consider appropriate, will be announced by the JREDA at the opening.
- 20.4. The JREDA will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Clause 20.3 of ITB.
- 20.5. Evaluation of the technical bids with respect to bid security, qualification information and other information furnished in Part I of the bid in pursuant to Clause 12.1 & clause 4.4 of ITB, shall be taken up and completed and a list will be drawn up of the responsive bids whose financial bids are eligible for consideration.
- 20.6. The JREDA shall inform, by email, whose technical bids are found responsive, date, time and place of opening as stated in the Notice Inviting Bid. In the event of the specified date being declared a holiday for the JREDA, the bids will be opened at the appointed time and location on the next working day through they or their representative, may attend the meeting of opening of financial bids.
- 20.7. At the time of the opening of the 'Financial Bid', the names of the bidders whose bids were found responsive in accordance with clause 20.5 of ITB will be announced. The financial bids of only these bidders will be opened. The remaining bids will be returned unopened to the bidders. The responsive bidders' names, the Bid prices, the total amount of each bid, and such other details as the JREDA may consider appropriate will be announced by the JREDA at the time of bid opening. Any Bid price which is not read out and recorded, will not be taken into account in Bid Evaluation
- 20.8. The JREDA shall prepare the minutes of the opening of the Financial Bids.

21. Process to be Confidential

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

22. Clarification of Bids and Contacting the JREDA

- 22.1. No Bidder shall contact the JREDA on any matter relating to its bid from the time of the bid opening to the time the contract is awarded.

- 22.2. Any attempt by the bidder to influence the JREDA's bid evaluation, by any means, bid evaluation, bid comparison or contract award decision may result in the rejection of his bid.

23. Examination of Bids and Determination of Responsiveness

- 23.1. During the detailed evaluation of "Technical Bids", the JREDA will determine whether each Bid (a) meets the eligibility criteria defined in Clauses 3 and 4; (b) has been properly signed; (c) is accompanied by the required securities; and (d) is substantially responsive to the requirements of the bidding documents. During the detailed evaluation of the "Financial Bids", the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities, technical specifications and drawings.
- 23.2. A substantially responsive "Financial Bid" is one, which conforms to all the terms, conditions, and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the Works; (b) which limits in any substantial way, inconsistent with the bidding documents, the JREDA's rights or the Bidder's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.
- 23.3. If a "Financial Bid" is not substantially responsive, it will be rejected by the JREDA, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

24. Corrections of Errors

- 24.1. Bids determined to be substantially responsive, will be checked by the JREDA for any arithmetic errors. Errors will be corrected by the JREDA as follows:
- a) where there is a discrepancy between the rates in figures and in words, the rate in words will govern; and
 - b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.
- 24.2. The amount stated in the Bid will be adjusted by the JREDA in accordance with the above procedure for the correction of errors and shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid will be rejected, and the Earnest money shall be forfeited in accordance with Clause 16.6(b) of ITB.

25. Evaluation and Comparison of Bids

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

- 25.2. In evaluating the bids, the JREDA will determine for each Bid the evaluated Bid price by adjusting the Bid price by making correction, if any, for errors pursuant to Clause 24 of ITB.
- 25.3. If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer's estimate of the cost of work to be performed under the contract, the JREDA may require the Bidder to produce detailed price analysis for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the JREDA may require that the amount of the performance security set forth in Clause 31 of ITB be increased at the expense of the successful Bidder to a level sufficient to protect the JREDA against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased performance security shall be decided at the sole discretion of the Employer, which shall be final, binding and conclusive on the bidder.
- 25.4. After its evaluation, the JREDA may require that the amount of the performance security set forth in Clause 31 be increased at the expense of the successful Bidder to a level sufficient to protect the JREDA against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased performance security shall be decided at the sole discretion of the JREDA, which shall be final, binding and conclusive on the bidder.

26. Price Preference

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

F. Award of Contract

27. Award Criteria

- 27.1. Subject to Clause 29 of ITB, the JREDA will award the Contract to the Bidder whose Bid has been determined to be substantially responsive to the bidding documents and who has offered the lowest evaluated Bid price, provided that such Bidder has been determined to be (a) eligible in accordance with the provisions of Clause 3 of ITB, and (b) qualified in accordance with the provisions of Clause 4 of ITB; and as per clause 14 of Notice Inviting Bid (Section-3).

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

- 28.1. Notwithstanding Clause 27 above, the JREDA reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any

obligation to inform the affected Bidder or bidders of the grounds for the JREDA's action without any reason.

29. Notification of Award and Signing of Agreement

- 29.1. The bidder whose Bid has been accepted will be notified of the award by the JREDA prior to expiration of the Bid validity period by cable, email, telex or facsimile confirmed by registered letter. This letter (hereinafter and in the Part I - General Conditions of Contract called the "Letter of Acceptance") will state the sum that the JREDA will pay to the Contractor in consideration of the execution and completion of the Works (hereinafter and in the Contract called the "Contract Price").
- 29.2. The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provisions of Clause 30.
- 29.3. The Agreement will incorporate all agreements between the JREDA and the successful Bidder. It will be signed by the JREDA and the successful Bidder after the performance security is furnished.
- 29.4. Upon the furnishing by the successful Bidder of the Performance Security, the JREDA will promptly notify the other Bidders that their Bids have been unsuccessful.
- 29.5. The successful bidder has to sign the Agreement within 15 days from the date of issue of the Work Order, along with the required Security Deposit.

30. Security Deposit:

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

31. Performance Guarantee:

- 31.1. Successful General bidder shall submit a performance guarantee @5% of the allotted work order value in the form of Bank Guarantee valid for five years on or before release of any payment.
- 31.2. Successful MSE bidders of Jharkhand shall submit a Performance Guarantee @2.5% of the allotted work order value in the form of bank guarantee before release of payment.
- 31.3. The Performance Guarantee will have to be maintained by the bidder with JREDA till the completion of warrantee period.
- 31.4. The Security Deposit/Performance Guarantee shall be submitted in the form of bank guarantee in favour of “Director, JREDA” payable at Ranchi from any Indian Nationalized bank/Scheduled bank.
- 31.5. Non-submission of Security Deposit/Performance Guarantee within the period, shall lead to forfeiture of EMD and cancellation of work order.
- 31.6. If Bidder/MSE unit fails to carry out the work allotted to him as per the provisions of the tender documents then such Bidder/MSE unit may be black listed for future awards of work.

32. Five Years Comprehensive Maintenance Contract (CMC):

- 32.1. The SCSSs contract price includes the provision of 5 years mandatory Comprehensive Maintenance Contract (CMC). To ensure long-term sustainability of the system, the bidder must provide his representatives name, full address, mobile number and photographs to JREDA with one hard copy as well as the names and contact details of all technicians must also be provided. Failure to do shall invite penalty and action.
- 32.2. The Comprehensive Maintenance Contract shall include servicing & replacement guarantee for parts and components (such as electronics, Inverter, PV modules and other hardware) of SCSSs for five years from the date of installation. **PV modules shall be warranted for 25 years.** Battery (if provided) should be warranted for a minimum life of 5 years. The date of CMC maintenance period shall begin on the date of actual commissioning of SCSSs. It is mandatory for the contractor to carry out CMC regularly and submit report to JREDA quarterly. Failure to submit quarterly CMC reports timely shall invite penalty. Failure to submit quarterly CMC reports timely shall invite penalty of Rs. 1,000/- per week after the end of the one month of the ending of the quarter. If the successful bidder is found to be not doing CMC work continuously for two quarters, then bidders performance guarantee will be forfeited, work order shall be cancelled and bidder shall be black listed.

33. Preventive/Routine Maintenance:

This shall be done by the supplier/contractor at least once in every three months and shall include activities such as, cleaning and checking the health of the SPV system, cleaning of module

surface, topping up of batteries, tightening of all electrical connections, regular checks to identify any leakage of current, changing of tilt angle of module mounting structure, any other activity that may be required for proper functioning of the Solar Cold Storage System. The maintenance record should be kept properly and to be submitted at JREDA office time to time. CMC documents should be certified by Beneficiary.

34. Breakdown / corrective Maintenance:

Whenever a complaint is lodged by the user the bidder shall attend the same immediately. It is clarified that effective CMC means that the bidder should ensure 24 hours smooth working of all the solar cold storage systems throughout the CMC period and therefore, if any complaint in this level of service is found by the JREDA officials and if the bidder do not attempt the rectification of any such defect within three days of communication of such complaint to the bidders, the bidder will be liable for a penalty of Rs. 100 per day per system beyond three days of reporting of such complaint.

35. Advances

The JREDA will not provide Mobilization Advance and Advance against the security of equipment as provided in Part I - General Conditions of Contract.

36. Corrupt or Fraudulent Practices

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

Section-5

NIB No: 13/JREDA/SCSS/20-21

General Terms & Conditions

1. Introduction:

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

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

2. Scope of work:

JREDA shall select the eligible agencies/NGOs/firms for implementation of the 24 nos. of solar Cold storage project across 24 sites/locations around the State. The selected agency shall perform the following activities for the implementation of the project:

- a) JREDA shall provide list of prospective sites/locations for installation of solar cold storage project; however, the agency shall pursue survey considering following points and finalize the site/location with the consent of JREDA:
 - i. Land area under irrigation.
 - ii. No. of farmers.
 - iii. Types of commodities in the area (fruits, vegetables, flowers, milk etc.)
 - iv. Details of nearest conventional cold storage/ solar micro cold storage (distance, capacity).
 - v. Nearest Mandi (distance).
 - vi. Price of the commodities(in local market, nearest Mandi and at nearest cold storage)
- b) Selected site/locations should have comparatively higher production of perishable fruits, vegetables, flowers (as compared to other areas of the district).
- c) Post finalization of site/ location agency shall Design, Supply, Installation, Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis.

- d) Agency shall facilitate in formulation of a co-operative aggregating the group of individual farmers with the maximum stake of 30%. Rest stake shall be owned by Govt. of Jharkhand.
- e) The stake of the individual farmer shall be defined depending on the quantum of produce, land area under framing and associated wastages; agency shall account a documental proof for defining the stake of individual farmer.
- f) Agency shall devise per unit charges (storage tariff) for using cold storage system; the devised charge shall give the payback of the whole setup, payback shall be less than 5 years.
- g) Every selected location shall have an institution constituting the group of farmers from solar cold storage co-operative; institution shall select a group of five people on yearly basis in consultation with BDO and village panchayat. The selected group shall be ready to own, maintain, and operate the solar micro cold storage facilities in future on a strictly chargeable basis. Selected agency shall help the group of farmers in formulation of the same and give their details to JREDA on yearly basis.
- h) The agency shall submit a monthly report to JREDA citing commodity produced by individual farmers of the co-operative, types of commodities and contribution of individual farmer, revenue form the rentals, beneficiary wise quantum of savings made.
- i) The revenue collected from the rentals shall be deposited in the bank account provided by JREDA.

3. Bid documents:

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

4. Price:

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

5. Inspection of the factory and Tests:

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

6. Payment terms and conditions:

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

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

7. Dispatch Instructions:

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

JREDA. However, equipments will be dispatched from the manufacturing site only after the receipt of “**Dispatch Clearance**” from JREDA after acceptance of test report.

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

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

The items which are being procured through this bid have to be installed on the basis of demand to be received by JREDA.

After finalization of the tender JREDA authority will take decision for issuing work order for the work under scope to the successful bidder then within 45 days, the supplier will have to ensure pre dispatch inspection from JREDA and within next 15 days JREDA will issue Dispatch instruction. Accordingly the work of supply & installation will be completed by the vendor within 90 days period from the date of issue of dispatch instruction. The bidders shall have no claim regarding economy of scale, choice of district/s or choice of region in the state, for the purpose of transportation of items/materials to the demand/work sites.

8. Liquidated Damages for Delay in Completion:

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

9. Risk & Cost:

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

10. Insurance:

The supplier shall arrange for transit and erection insurance of the materials & equipments for supply & installation of Solar Cold Storage System.

11. Assignment/ Sub-letting:

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

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

12. Completeness of Tender:

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

13. Compliance with Regulations:

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

14. Agreement:

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

15. Income Tax / GST:

Without prejudice to the obligations of the supplier under law, any income tax and GST which JREDA may be required to deduct by law/statute, shall be deducted at source and shall be paid to income tax authorities on account of the supplier. JREDA shall provide the supplier a certificate for such deductions of tax.

16. Training Program, After Sales Service and Availability of Spare Parts:

16.1. The responsibility of organizing training program for SCSSs will rest on the successful bidder. The training program will be organized in consultation with JREDA/Consignee. The training program will focus on operation and maintenance of SCSSs. Printed leaflet/literature should be made available in Hindi by the Supplier regarding the operation and maintenance of their SCSSs.

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

17. Force Majeure conditions:

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

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

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

18. Cancellation of Work Order:

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

- a) If the contractor/supplier is found defaulter for delayed supply, installation & commissioning or failure to deliver satisfactory performance or supply of substandard materials.
- b) If the contractor/supplier fails to comply with the provision(s) of the contract including the responsibilities to fulfill the 5 years CMC as per the provisions mentioned.
- c) If the Contractor/vendor is involved in any action of moral turpitude.

JREDA reserves the right to allocate the work of work order cancelled as per above mentioned provisions, to other empaneled contractors.

Other terms & conditions enumerated in the NIB will be the integral part of this contract.

19. Jurisdiction of the Court:

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

Section-6

NIB No: 13/JREDA/SCSS/20-21

Technical Specification

SOLAR COLD STORAGE SYSTEM

Solar Powered Cold Storage System with Thermal Storage System and High Precooling

Requirements

- Solar Powered Cold Storage Capacity of 5 MT:

Specifications	Values / Description
Cold-room	
Type	Pre-painted Modular Container
External dimensions (L x W x H)in feet	As per design (to be approved by JREDA)
Internal capacity	750 CFT
Storage capacity	Minimum 5 MT (as per MIDH standards of 120 CFT / 1 MT)
Temperature Range, °C	4 - 10 °C
Product storage	Fresh Fruits and Vegetables
Product incoming temperature	30 °C
Product loading / unloading	Precooling of 2500 kg/day from 30 to 5 °C on alternate day basis as balance cooling is provided by thermal storage Or Precooling of 1000 kg/day from 30 to 5 °C on every day basis (depending upon commodity)
Pull down desired time	18 hours
No. of door openings / day	As per design
Wall and ceiling insulation & thickness	100 mm Poly Urethane Foam
Floor insulation and thickness	100 mm Poly Urethane Foam + Anti-skid
Door type	100mm Poly Urethane Foam
Door curtain	PVC curtain before the door to reduce Heat infiltration on door opening
Product stacking details	On racks (to be provided by supplier). The frame racks should be provided to cater sufficient load and maximum capacity utilization of the SCSS. The material shall be powered coated MS/SS.
Ambient temperature	40 °C
Designed solar radiation levels	4.5 kWh/m ² -day global horizontal irradiance
Back up duration	24-30 hours (non door opening & 4.5 kWh/m ² -

	day global horizontal irradiance)
Power Source	
Photovoltaic panels type	Polycrystalline/Monocrystalline
Size	6 kWp or As per design.(to be approved by JREDA) whichever is higher.
Solar VFD drive	As per motor drive
Solar charge controller	MPPT
Electrical batteries (Auxiliary Power)	As per auxiliary load requirement for mentioned autonomy. (Auxiliary loads such as fans, lights, valves & control system).The VRLA batteries should be used.
Mounting Structure	The mounting structure should be designed over the roof area of cold storage or super structure should be designed.
Alternative Power input facility	Grid & D.G.
Refrigeration System	
Condensing unit	Condensing unit for -5°C evaporating and 40°C condensing temperatures
Evaporator unit	Minimum 2 Nos. of Fans and minimum air through of 750CFM each or As per design.(to be approved by JREDA)
Refrigerant	R404a/R134a/R22 or equivalent.
Thermal Storage System	
Charging duration	5 to 7 hrs (ambient temperature dependent)
Thermal storage medium	Water / other
Cooling storage capacity	Minimum 100 MJ enough to precool 1MT from 30 to 10 °C primarily on thermal storage system
Heat transfer medium from thermal storage to the evaporator unit of cold storage	Refrigerant (R22/R134a/R404a) or As per design.
Thermal storage capacity indication	Linear with minimum 4 graduations between maximum and minimum thermal cooling capacity
Self-leakage from thermal storage	Maximum 300 Watt at the ambient temperature of 40 °C
Thermal storage configuration	Completely stops providing cooling in the cold storage when temperature of cold storage is achieved to the desired levels
Battery Bank	VRLA/T-Gel/LiFePo4 batteries should be used As per design.

Solar PV Module / Array

- i. Solar Photo Voltaic (SPV) modules/ array shall be of high efficiency made of crystalline silicon solar PV cells and shall also satisfy the **MINIMAL TECHNICAL REQUIREMENTS / STANDARDS FOR SPV SYSTEMS**
- ii. The terminal box on the module should have a provision for opening for replacing the cable, if required.
- iii. The rating of each individual module should not be less than **250Wp** at Standard Test conditions (Higher ratings can be used) and shall meet following minimum requirement:
 - Efficiency of module $\geq 15\%$**
 - Fill factor shall be greater than 70%.**

General requirements for PV module:

- a. Module shall be made up of mono or poly crystalline silicon cells.
- b. The interconnected cells shall be laminated in vacuum to withstand adverse environmental conditions
- c. The module frame is made of corrosion resistant materials, preferably having aluminium anodized finish
- d. The minimum clearance between the lower edge of the modules and the developed ground level shall be 400 mm.
- e. Surge arresting device to be provide at junction box and module shall be provided with bypass diode.
- f. The SPV module must be IEC 61215 and IEC 61730 Part I and Part II certified from any of the accredited certifying agencies.
- g. Each solar PV module shall be warranted by the manufacturer for at least 90% of its rated power after initial 10 years and 80% of its rated power after 25 years from the completion of the trial run.
- h. Each PV module deployed must use a RF identification tag. The following information must be mentioned in the RFID used on each module. (This can be inside or outside the laminate, but must be able to withstand harsh environmental conditions).
 - Name of the manufacturer of the PV module
 - Month & year of the manufacture(separate for solar cells and modules)
 - Country of origin (separately for solar cells and module)
 - I-V curve for the module
 - Wattage, I_m , V_m and FF for the module
 - Unique Serial No and Model No of the module
 - Date and year of obtaining IEC PV module qualification certificate
 - Name of the test lab issuing IEC certificate
 - Other relevant information on traceability of solar cells and module as per ISO 9001.

Module Mounting Structure

- i. The structure shall be provided on the roof of cold storage room or super structure should be designed over the cold storage room. The super structure shall have separate pillars /GI poles with RCC foundation of minimum depth 1.5 meter from earth surface .
- ii. The structure shall be designed in accordance with tilt angle between 5-15°. The array mounting structure shall be designed to allow easy replacement of any module and shall be in line with site requirement. Structure shall be designed for simple mechanical and electrical installation.
- iii. The array structure shall support SPV modules at a given orientation, absorb and transfer the mechanical loads to the ground properly.
- iv. The mounting structure shall be of anodised aluminium / MS Hot Dip galvanized pipes and shall be as per relevant standards The minimum thickness of galvanization shall be at least 80 microns. Fixing fasteners shall be of Stainless steel, all nuts & bolts stainless steel. Legs assembly shall be of MS Hot Dip galvanized pipes after fabrication/Anodised Aluminum. Mounting structure shall of anodized aluminum /MS hot dip galvanized GI/ C Channel etc. The mounting structure steel shall be as per latest IS 2062: 1992 and galvanization of the mounting structure shall be in compliance of latest IS 4759
- v. In case of roof mounting structure ,total load of the structure (when installed with PV modules) on the roof should be as per permissible limit of cold room load bearing capacity.

PLANNING AND DESIGNING:

The bidder should submit the Cold storage design drawings for approval. JREDA reserves the right to modify the landscaping design, Layout and specification of sub-systems and components at any stage as per local site conditions/requirements.

The bidder shall submit preliminary drawing for approval & based on any modification or recommendation, if any.

DRAWINGS TO BE FURNISHED BY BIDDER AFTER AWARD OF CONTRACT:

The Contractor shall furnish the following drawings Award/Intent and obtain approval:

- a. General arrangement and dimensioned layout
- b. Schematic drawing showing the requirement of SPV panel, Power conditioning Unit(s)/ inverter, Junction Boxes, AC and DC Distribution Boards, meters, condensing unit, thermal unit etc.
- c. Structural drawing for solar plant.
- d. Operation & maintenance manual should be provided after commissioning of plant.

DISPLAY BOARD

The bidder has to display a board at the project site mentioning the following:

Plant Name, Capacity, Location, Type of Project, Date of commissioning , Project executing agency (JREDA).

The size and type of board and display shall be approved by Engineer-in-charge before site inspection.

Manpower Training

The supplier/contractor shall train the users for the operation & maintenance of the plant.

Remote Monitoring

The system should be enabled with remote monitoring features that send minute by minute data on the operational conditions and health of the system.

Annexure-1: Format for Covering Letter

NIB No: 13/JREDA/SCSS/20-21

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

To,

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

Sub: Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis at 24 sites / locations in the state of Jharkhand

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

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

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Annexure-2: Check List for Technical bid

NIB No: 13/JREDA/SCSS/20-21

S. No.	Particulars	Uploaded Yes / No	Page No.
1	Covering Letter as per Annexure-1 .		
2	Information about the Bidder as per Annexure-3 .		
3	The bidder is registered PV System Integrator or Manufacturing company of SPV cells or PV Modules or Battery or PV System Electronics confirming to relevant National/International Standards (Attach relevant certificates of Industry Department or MNRE).		
4	To indicate the functionality of the firm attach the balance sheet of last three years ending 31.03.2019/20 of the firm duly certified by statutory Auditor.		
5	Registration certificate of MSE of Jharkhand State (Enclose certificate issued by Industry Department, Govt. of Jharkhand).		
6	IEC/IS certificates for Solar PV Module (Attach relevant certificate).		
7	Certificate of Battery (Attach valid certificate as per BIS).		
8	A copy of valid VAT/ TIN registration certificate		
9	Declaration by Bidder as per Annexure-4 .		
10	Average Annual Turnover for last three years ending 31.03.2019/20 (Attach average annual turnover certificate as per Annexure-5)		
11	Net worth as on 31.03.2019/20. (Attach proof & Net worth certificate as per Annexure-6)		
12	Details of tender document fee (Bank Draft No. and Date)		
13	The proof of supply of Solar Cold Storage System (SCSS) to SNA/ Govt. Organization during Last Seven Years Annexure-8 to indicate the quantity already supplied. Attach copy of the order and certificate indicating its successful execution		
14	Details of Earnest money Deposit (Bank Guarantee/DD Number & Date)		
15	Authority Letter for Signing Bid Document & Attending Bid Opening Meeting as per Annexure-7		

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

Please ensure:

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

- iii) Any clarification/confirmation bidder may require shall be obtained from JREDA before submission of the bid. Bidder shall submit complete bidding document including subsequent amendment, modification and revision, duly signed and stamped as a token of having read, understood and accepted all the terms and condition mentioned therein.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Annexure-3: Information about the Bidding Firm

NIB No: 13/JREDA/SCSS/20-21

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

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

Yours faithfully,

(Signature of Authorized Signatory)

Name :

Designation :

Company seal :

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

Annexure-4: Declaration by the Bidder

NIB No: 13/JREDA/SCSS/20-21

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

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

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

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Annexure-5:Format For Financial Requirement – Annual Turnover

NIB No: 13/JREDA/SCSS/20-21

[On the letterhead of Bidding Company]

To,

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

Dear Sir,

Sub: Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis at 24 sites / locations in the state of Jharkhand

Sir,

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

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

UDIN No.:

Authorised Signatory
Statutory Auditor
(Power of Attorney holder)

(Stamp & Signature)

Date:

Annexure-6: Format for Financial Requirement - Net Worth Certificate

NIB No: 13/JREDA/SCSS/20-21

[On the letterhead of Bidding Company]

To,

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

Dear Sir,

Sub: Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis at 24 sites / locations in the state of Jharkhand

Sir,

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

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

UID No.:

Authorised Signatory

Statutory Auditor

(Power of Attorney holder)

(Stamp & Signature)

Annexure -7: Format of Power of Attorney for Signing Bid

NIB No: 13/JREDA/SCSS/20-21

POWER OF ATTORNEY

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

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

as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our bid for **NIB No: 13/JREDA/SCSS/20-21**, including signing and submission of all documents and providing information / Bids to Jharkhand Renewable Energy Development Agency, representing us in all matters before [Insert Name], and generally dealing with Jharkhand Renewable Energy Development Agency in all matters in connection with our bid for the said Project.

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

For

_____Signature (Name, Designation and Seal)

Accepted by

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

(Name, Title and Address of the Attorney)

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

Annexure-8: Details of Orders Received and Executed in Last 7 Years

NIB No: 13/JREDA/SCSS/20-21

Details of Orders Received & Executed by the Manufacturer/Supplier for Supply of Solar Cold Storage System (SCSS)/ Solar Power Plant to SNA/ Govt. Organization during Last Seven Years.

SL. No.	Name of Agency/ Organization	Purchase Order No., Date & Ordered Qty.	Name of Model	Delivery Schedule	Date of Full Supply with letter no. & date of the performance certificate	Page number of the Work order/ purchase order submitted	Page number of the performance certificate submitted

Yours faithfully,

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Note:

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

Annexure-9: Price Bid

NIB No: 13/JREDA/SCSS/20-21

Sub: Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis at 24 sites / locations in the state of Jharkhand

S. No.	Description	Max. Quantity	Offered Quantity	Offered Price (in Rs.)	
				In Figure	In Words
1	2	3	4	5	6
1	Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis at 24 sites / locations in the state of Jharkhand	08			
Total					

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

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

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

Annexure-9 (a): Price breakup in pdf.

NIB No: 13/JREDA/SCSS/20-21

Sub: Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis at 24 sites / locations in the state of Jharkhand

S. No.	Description	Max. Quantity	Offered Quantity	Offered Price (in Rs.)	
				In Figure	In Words
1	2	3	4	5	6
1	Solar PV Module, 6 kWp or as per design.				
2	Alternative Power (Grid/DG)				
3	Thermal Cold Storage System				
4	Battery				
6	Any other cost/ charges.				
7	CMC (10% of the total cost of system)				
Total					

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

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

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

Annexure-10: Format for Submitting Bank Guarantee for Earnest Money Deposit

NIB No: 13/JREDA/SCSS/20-21

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

To,

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

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

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

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

We (Bank) hereby
agree and undertake to pay you on demand the said amount of Rs.
..... (Rupees only) without any
protest or demur in the event the Supplier/Tenderer after submission of his tender, resiles from or
withdraws his offer or modifies the terms and conditions thereof in a manner not acceptable to you or
expresses his unwillingness to accept the order placed and/or letter of intent issued on the
Supplier/Tenderer for the work under "Notice Inviting Bid Ref. No.:" **NIB No: 13/JREDA/SCSS/20-**
21

Your decision as to whether the Supplier/Tenderer has resiled from or has withdrawn his offer or has modified the terms and conditions thereof in a manner not acceptable to you or has expressed his unwillingness to accept the order placed and/or Letter of Intent issued by you on the Supplier/Tenderer for the work under “Notice Inviting Bid Ref. No. : **NIB No: 13/JREDA/SCSS/20-21**

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

Signed and Delivered

For and on behalf of Bank.

(Banker's Name)

Name of Bank Manager:

Address

.....

Annexure-11: Contact Person for the NIB

NIB No: 13/JREDA/SCSS/20-21

[On the letterhead of Bidding Company]

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

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Annexure-12: Certificate of Delivery of Solar Cold Storage unit Systems received from the Consignee as Proof of Compliance by the Supplier

NIB No: 13/JREDA/SCSS/20-21

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

Name of Department:.....

Address of Department:.....

Certified that we have received the following materials of.....Nos.

of Solar Cold Storage unit Systems:

1. Serial nos. of SPV Modules & Make:.....

2. Serial nos. of Batteries & Make:.....

3. Serial nos. /Capacity of Cold Room & it's Make:.....

4. Serial nos. /Capacity of Thermal Storage & it's Make:.....

5. Other materials:.....

Above materials have been supplied by M/son

Dated.....

Signature of Consignee along with Seal

Date.....

Signature of Supplier along with Seal

Date.....

Signature of JREDA Representative

**Annexure 13 Certificate of Installation of Solar Cold Storage unit Systems received
from the Consignee as Proof of Compliance by the Supplier**

NIB No: 13/JREDA/SCSS/20-21

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

Name of Department:.....

Address of Department.....

Certified that M/s has successfully installed.....Nos. of Solar
Cold Storage unit Systems at..... and are in working
condition since seven days.

1. Serial nos. of SPV Modules & Make:.....

5. Serial nos. of Batteries & Make:.....

6. Serial nos./Capacity of Cold Room & it's Make:.....

7. Serial nos./Capacity of Thermal Storage & it's Make:.....

5. Other materials:.....

Signature of Consignee along with Seal

Date.....

Signature of Supplier along with Seal

Date.....

Signature of JREDA Representative

Annexure: 14 Format for Quarterly O&M and CMC Report

NIB No: 13/JREDA/SCSS/20-21
[On the letterhead of Bidding Company]

To,

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

Dear Sir,

Sub: Design, Supply, Installation, and Testing & Commissioning of Solar Cold Storage unit including five years Comprehensive Maintenance Contract (CMC) on Turnkey basis at 24 sites / locations in the state of Jharkhand.

Date of Installation.....

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

Place of Supply.....

Name of Technicians:.....

Period of CMC:.....

S. N.	Place of Installed System	System Details	Date of Site Visit/CMC	Fault observation	Fault repaired	Status of the system
		Module No.				
		Battery No.				
		Cold Room.				
		Thermal Storage System				

(Signature of Consignee)
Name
Designation
Seal

Signature of Agency with Seal

Signature of JREDA Representative