



**CHHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY
(CREDA)**

Bio-diesel Plant Premises, Near Energy Education Park, VIP Road, Raipur
Website: <http://Creda.cg.state.gov.in> Phone: 0837009918

No.: -11955/CREDA/RE-1/ CST/2018-19

Dated 13-08-2018

REQUEST FOR PROPOSALS (RFP) are invited from the manufacturers who are registered as channel partner of MNRE for the Rate Contract for Supply, Installation & Commissioning of CST (Concentrated Solar Technology) Systems except single axis systems having 16 Sq. mtr. & 32 Sq. mtr. Scheffler dishes, Box Type Solar Cooker, Solar Dryer anywhere in the State of Chhattisgarh.

- (I) To be submitted by **1.00 P.M.** on **06.09.18** in the office of Chief Engineer(RE-1), Bio-diesel Plant Premises, Near Energy Education Park, VIP Road, Raipur (C.G.)
- (II) Technical bid to be opened at **3.00 P.M.** on **06.09.18** in the office of Chief Engineer(RE-1), CREDA, **Bio-diesel Plant Premises, Near Energy Education Park, VIP Road, Raipur (C.G.)** day or may be other day, as per the decision of the Committee.
- (III) Issued to

M/s. _____

(Bidder)

Date of Issue of Offer: _____

Money Receipt No. _____ Date _____ Amount ₹1,000/- (One Thousand Only) if purchased from CREDA Office, Raipur.

Signature of Officer issuing the documents

NOTICE INVITING RFP

REQUEST FOR PROPOSALS (RFP) are invited from the manufacturers who are registered as channel partner of MNRE for Rate Contract for **Supply, Installation & Commissioning of CST (Concentrated Solar Technology) Systems except single axis systems having 16 Sq. mtr. & 32 Sq. mtr. Scheffler dishes, Box Type Solar Cooker, Solar Dryer anywhere in the State of Chhattisgarh.**

RFP forms can be purchased **till 05.09.18** during office hours from this office on payment of **₹1000.00 (Rupees One thousand only)** in cash or D/D in favour of CREDA, Raipur. If the RFP is downloaded from website or received electronically then the Bidder should enclose a demand draft of **₹1000=00 (Rupees One Thousand Only)**, as RFP document cost, along with the RFP document during submission.

Last date of depositing the sealed offer is **06.09.18**. Technical bid to be opened at **3.00 P.M. on 06.09.18** in the office of Chief Engineer, **Bio-diesel Plant Premises, Near Energy Education Park, VIP Road, Raipur(C.G)**. Financial bid may be opened after scrutiny of technical bid on the same day or may be other day, as per the decision of the Committee.

Pre-Bid Meeting will be held at 1.00 P.M. on 31.08.18 in CBDA conference Hall, Bio-diesel Plant Premises, Near Energy Education Park, VIP Road, Raipur(C.G).

Bidders must ensure that the products should be as per latest JNNSM/MNRE specifications (should be as per last updated specifications issued by JNNSM/MNRE under concerned program) **for Supply, Installation & Commissioning of CST (Concentrated Solar Technology) Systems except single axis systems having 16 Sq. mtr. & 32 Sq. mtr. Scheffler dishes, Box Type Solar Cooker, Solar Dryer anywhere in the State of Chhattisgarh.**

Bidders must have the **experience of supply, installation & commissioning of above system aggregating 500 sq.mtr. anywhere in country.**

Bidder has to deposit ₹ 50,000/- (₹ Fifty Thousand only) in the form of D/D as EMD in favor of CREDA, Raipur payable at Raipur. The EMD may be treated as SD after signing the agreement, however the total amount of SD thus deposited must not exceed 5% of the total work order value issued under this RFP. This SD amount may be released after Five Years .

CREDA reserves all rights to accept/reject any or all offer in full/part without assigning any reasons.

Check List

To ensure that your RFP submitted to CREDA is complete in all respects, please go through the following checklist & tick mark for the enclosures attached with your offer:

S. No.	Description	Attached	Not Attached
1	Earnest Money		
2	The original document duly signed & sealed on each page, as a confirmation of acceptance of Terms & Conditions (T&C) with document charge.		
3	A Copy of Registration as a Channel Partner in MNRE for year 2017-18 or whichever is latest (issued by MNRE)		
4	A Copy of GST registration & PAN & TIN		
5	Details of Supply, installation & Commissioning of systems (CST system, Solar Cooker & Solar Dryer) aggregating 500 sq. mtr. along with copies of the orders and certificates from the customers, their address phone/fax/email.		
6	Declaration of the supplier about any relatives working with CREDA.		
7	Deviations, if any, from the specifications, terms & conditions etc.		
8	Whether validity of your offer is confirmed as per the document		
10	Availability of service facilities in Chhattisgarh		

Details of EMD & RFP Fee Attached

S.No.	Description
1	<p><u>Earnest Money Deposit</u></p> <p>Earnest Money Deposit of ₹...../-, submitted in the form of Demand Draft/Banker's Cheque, drawn onBank,..... Branch, bearing DD/BC No.....dated is attached herewith.</p>
2	<p><u>RFP Document Fee</u></p> <p>RFP Document Fee of ₹...../-, submitted in the form of Demand Draft/Banker's Cheque, drawn onBank, Branch, bearing DD/BC No.....dated.....is attached herewith.,</p>

(Sign & Seal of the Manufacturer)

UNDERTAKING OF THE BIDDER

I/We have read carefully and examined the notice inviting RFP, schedule, General Rules and terms and conditions of the contract, special conditions, Schedule of Rates and other documents and Rules referred in the RFP document for the supply.

I/We hereby quoted our rates for Supply, Installation & Commissioning of CST (Concentrated Solar Technology) Systems except single axis systems having 16 Sq. mtr. & 32 Sq. mtr. Scheffler dishes, Box Type Solar Cooker, Solar Dryer anywhere in the State of Chhattisgarh for CREDA as specified within the time stipulated in the schedule in accordance with all aspects with the standard specifications, designs, drawings and instructions with such conditions so far as applicable.

I/We agree to keep the RFP open for Ninety (90) days from the due date of submission thereof and not to make any modifications in its terms and conditions.

A sum of ₹ _____ is hereby forwarded as earnest money in the form of crossed demand draft. If I/We, fail to commence or complete the work ordered in specified time I/We agree that the CREDA shall, without prejudice to any other right or remedy, be at liberty to forfeit the said Earnest Money absolutely. The said Earnest Money shall be retained by CREDA towards security deposit to execute all the works referred to in the RFP documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be required by CREDA.

I/We hereby declare that I/We shall treat the RFP documents, specifications and other records connected with the work as secret/confidential and shall not communicate information derived there-from to any person other than a person to whom I/We have authorized to communicate the same or use the information in any manner prejudicial to the safety of CREDA/the State Govt.

I/We shall abide to all the laws and shall be responsible for making payments of all the taxes, duties, levies and other Govt. dues etc. to the appropriate Govt. departments.

Our GST/TIN registration no. is _____
_____. The PAN No. under the Income Tax Act is _____
_____. I/We shall be responsible for the payment of the respective taxes to the appropriate authorities and should I/we fail to do so, I/we hereby authorize CREDA to recover the taxes due from us and deposit the same with the appropriate authorities on their demand.

Dated:

Place:
with seal
Witness

Signature:

Name:
Postal Address:

Signature
Name of Bidder

RFP DOCUMENT FORM

The undersigned hereby submit RFP document and offer (subject to the Agency's conditions of RFP) to the Chhattisgarh State Renewable Energy Development Agency (CREDA) **for Supply, Installation & Commissioning of CST (Concentrated Solar Technology) Systems except single axis systems having 16 Sq. mtr. & 32 Sq. mtr. Scheffler dishes, Box Type Solar Cooker, Solar Dryer anywhere in the State of Chhattisgarh with Five years comprehensive operation & maintenance contract and works which are described or referred in the Scope of work attached to RFP document.** The details of Technical Particulars, copies of which are annexed here to and which under the terms there of are to be supplied, executed and done by the contractor and to perform and observe the provisions and agreements or the part of the contract contained in or reasonable to be referred from the said RFP documents for the same and at the rates sets out in Schedule-I annexed hereto.

The questionnaire enclosed with this RFP document has been fully answered and is enclosed herewith (if the questionnaire is not answered in full, the answer to various question may be taken so as to be advantageous to CREDA unless contrary mentioned in the body of the RFP). Complete RFP document is also enclosed herewith duly signed on every page by the undersigned.
Signed this.....day of2018.

Yours faithfully,

BIDDER'S SIGNATURE
(With seal)

BIDDER'S ADDRESS

INSTRUCTIONS FOR BIDDER

1. The CEO, CREDA, HO, Raipur invites sealed RFP for **Supply, Installation & Commissioning of CST (Concentrated Solar Technology) Systems except single axis systems having 16 Sq. mtr. & 32 Sq. mtr. Scheffler dishes, Box Type Solar Cooker, Solar Dryer anywhere in the State of Chhattisgarh** from Empanelled Channel Partners, Manufacturer /Suppliers & Entrepreneurs for CST Systems & Channel partners empanelled by MNRE for sale & distribution of Box & Dish type solar cookers & Solar Dryers. As per specification attached.

RFP should only be submitted in the office of Chief Engineer(RE-1), CREDA, Raipur by **1.00 P.M. on 06.09.18** offers received after the stipulated time and dates of submission, shall not be considered. Covers should invariably be super-scribed **RFP for Supply, Installation & Commissioning of CST (Concentrated Solar Technology) Systems except single axis systems having 16 Sq. mtr. & 32 Sq. mtr. Scheffler dishes, Box Type Solar Cooker, Solar Dryer anywhere in the State of Chhattisgarh due on 06.09.18** . Earnest Money should be deposited in the form of Demand Draft drawn in favour of CREDA, Raipur payable at Raipur. **The offers should be submitted by 1.00 P.M. on 06.09.18** . The technical bid of the RFP will be **opened at 3.00 P.M. on 06.09.18 in the office of Chief Engineer, Bio-diesel Plant Premises, Near Energy Education Park, VIP Road, Raipur (C.G).** The price bids of the technically eligible bidders may be opened after the scrutiny of the technical bid on the same day or any other day as per the decision of the committee, which shall be communicated after the opening of Technical Bid.

2. **A Eligibility and qualification criteria :**

The bidder shall meet the following requirements:

- (i) The bidder should be a reputed Manufacturer of CST based systems, Solar Cooker and registered as a Channel Partner of MNRE and should have GST registration. The system should be as per JNNSM/MNRE/CREDA specifications. The bidder should have work **experience of supply, installation & commissioning of above system aggregating 500 sq.mtr. anywhere in country** (as per the requirement of above said system's category specified in RFP) as credentials and shall be in satisfactory working condition for a minimum period of three years as on submission of RFP. Bidder should also have competency for design, supply, installation & commissioning of CST based systems.
- (ii) All test reports issued by SEC/OATCs for CST based systems conforming to the MNRE/BIS specifications would be considered valid for the offer. The products should be as per latest JNNSM/MNRE specifications (should be as per last updated specifications issued by JNNSM/MNRE under concerned program) .
- (iii) The net worth of the bidder during each of the last three consecutive years must be positive.

- (iv) Bidder shall furnish:
- A. Up-to-date GST registration no.
 - B. The bidder shall submit Audited Balance Sheets and Profit & Loss Account for the last three consecutive financial years.
 - C. The documentary evidence for meeting the eligibility criteria must mandatorily be submitted along with offer.
 - D. The bidder must provide copy of test report of their systems from Solar Energy Center or any other test center approved by Ministry of New & Renewable Energy (MNRE) along with copies of test report of their systems, the proof of having supplied, installed & commissioned at least 500 sq.mtr area of such CST based systems installed anywhere in the country should be enclosed.

4. **FOURPART BID:**

a) **EMD**

b) **Offer form & Technical details and other documents (Technical bid)**

c) **Price Bid (separately 1 for repair and 1 for maintenance)**

Sealed offers are invited in four-part basis.

One envelope (E-2) containing the **E.M.D.** clearly super-scribed EMD on Top, **Second** envelope (E-3) should contain the **RFP form** with required documents (**Technical details and other documents**) and technical details of the items for which price are being quoted, should be clearly marked as **Technical Bid**.

Fourth envelope (E-4) of price bid should be clear marked as **PRICE BID**.

***NOTE: Price Bid would be furnished in Four parts, one part for CST (Concentrated Solar Technology) based Steam Generating Systems ; second part for CST (Concentrated Solar Technology) based thermic fluid, Industrial process heat(IPH), Indoor Community Solar Cooker; third Part for Box Type Solar Cooker and fourth part for Solar Dryer.**

All these envelopes shall be kept in sealed cover (E-1) addressed to the CEO, CREDA, HO, Raipur with the name of work, offer specification number, due date of offer, amount & mode of E.M.D. and name of the bidder super-scribed on the cover. The envelope of price bid will be opened only if other three envelope's contents are found as per requirement..

Note :- If bidder is having rates for CST based systems or solar cooker or dryer which are not covered in this RFP then they can quote their rates in a separate envelop by marking it as "OPTIONAL RATE" for CREDA(s) reference.

- E-1 -Sealed Main Offer Envelope which will contain three sealed envelope (E-2 + E-3 + E-4)
- E-2 -Sealed Envelope which will contain **EMD & its details**
- E-3 -Sealed Envelope which will contain **RFP form & Technical details and other related documents (Technical Bid).**
- E-4 -Sealed Envelope which will contain sealed envelopes of **Price Bid**.

Please note that each price bid should be kept in a separate sealed envelope (E-4-1,E-4-2,E-4-3 & E-4-4 should mark the name of the item for which the price bid is quoted). **On the top of each of these sealed envelopes the name of the product/system should be clearly typed or hand written, for which the rates are quoted. Only those price bids should be submitted for which rates are being quoted.** Bidder should not submit any blank price bid. Bidder should enclose the **Technical & Commercial details and other related documents** of only those items for which the rates are being quoted in envelope E-4.

All the envelopes should have clear headings, stating the RFP number & the categories of SYSTEMS for which rates are quoted.

5. When RFP is delivered by special messenger, it should be handed over to assigning Officers, in the office of **Chief Engineer, CREDA, H.O, Raipur till due date and time.**
6. Full descriptive particulars and complete specifications should accompany the RFP. **RFP should be kept open for acceptance for at least three months from the date of opening.** Those who do not agree for validity of three months will do so at their own risk and no request for extension will be intimated from this office. However if due to circumstances beyond control, bidders are advised to extend the validity, they shall not be permitted to revise their rates, offer any rebate or concession, while extending the validity which may materially result in any reduction or increase in the computed price of their original offer.
7. The terms and conditions and specifications mentioned in RFP specifications shall be binding on the bidder and no condition or stipulation contrary to the conditions shall be applicable. Please note that the bidders who do not accept terms and conditions stipulated in this RFP specifications, their RFP shall be liable to be out rightly rejected without assigning any reason whatsoever.
8. **Each page of RFP document & enclosures shall be signed by the bidder and affix the seal. All the pages of the documents issued must be submitted along the RFP.**
9. CREDA reserves the right (i) to reject any or all RFP **in part or full** or to accept any offer considered advantageous to CREDA whether it is the lowest offer or not and (ii) to split the quantities against the RFP on more than one firm for the same items/ work. (iii) to reject the eligibility of any one or more bidder out of two or more who have submitted the documents against the eligibility criteria claiming for same items/systems. Under such condition the bidder who has supplied/ installed / manufactured the system shall be consider eligible. No reason will be assigned by CREDA for this and will be binding on the bidders.
10. In case of any corrections / alterations done in the RFP, the bidder should sign the same otherwise RFP may not be considered.
11. RFP through Telegraph/ Fax /Emails or open RFP received will not be considered and summarily rejected.
12. All the bidders shall essentially indicate the break-up of prices as shown in RFP form. In case any of the charges are not included in the quoted prices, the same shall be clearly shown as extra, indicating specifically the rate/scale of such charges.

13. **EARNEST MONEY :**

Each bidder should submit an earnest money required amount prior to submission of quotation in a separate envelope. The RFP not accompanied with earnest money or accompanied with inadequate earnest money will summarily be rejected and returned unopened. **EMD can in the form of single bank draft on Schedule Bank against rates are being quoted, provided the details of the EMD submitted is explained on the covering letter attached with the bank draft. EMD is ₹ 50,000=00 . The EMD may be treated as SD after signing the agreement, however the total amount of SD, thus deposited must not exceed 5% of the total work order value issued under this RFP. This SD amount may be released after Five Years or on submission of Bank Guarantee of equivalent amount valid for FIVE YEARS**

14. **FORM OF EARNEST MONEY DEPOSIT:**

The earnest money deposit can be furnished in the form of Bank Draft on Schedule Bank at Raipur made payable to CEO, CREDA, Raipur

15. **EXEMPTION FROM PAYMENT OF EARNEST MONEY:**

- i) SSI Units of Chhattisgarh State for the items for which these units are registered. Valid updated Certificate for such exemption should be attached with the tender document.
- ii) Fully owned State Government/ and Central Govt. manufacturing units will qualify for this exemption only if the State/ Central Govt. for which documentary evidence must be made available holds 100% shares. Valid updated Certificate for such exemption should be attached with the tender document.
- iii) SSI units having valid NSIC certificate clearly mentioning the capacity of manufacturing CST based applications.

16. **FORFEITURE OF EARNEST MONEY DEPOSIT:**

It should be clearly understood that in the event of bidder failing to enter into the agreement in the prescribed format and to execute work ordered, within stipulations on the rates quoted by him, if he is so communicated within the validity period of the RFP, the full amount of the earnest money will be forfeited and CREDA's decision in this respect will be final and binding on the bidder. However the EMD shall be treated as security deposit after placement of orders.

17. **PRICE:**

The prices quoted should be firm and F.O.R. Destination including all taxes and duties and any other incidental charges. The final rates under Rate Contract will be valid for **01 year** from the date of agreement; however this validity may be extended for a period of another **02 year** on mutual consent of CREDA and Manufacturer/Channel Partner of MNRE.

18. **INCOME TAX/ SALES TAX/GST CLEARANCE CERTIFICATE:**

The Bidder shall furnish Income Tax/ Sales Tax/GST clearance certificates from competent authority. Alternatively the Bidder shall give reasons for his inability to furnish such a clearance certificate. CREDA reserves the right to reject any tender, if Income Tax/Sales Tax/GST clearance certificates or the reasons for the Bidder's inability to furnish such a certificate are not furnished. TDS shall be recovered under Income Tax Act and Commercial Tax Acts in vogue.

19. **JURISDICTION OF THE COURT:**

Any dispute arising out of the contract shall be subject to the jurisdiction of court at Raipur.

CEO, CREDA

GENERAL CONDITIONS OF CONTRACT

1. DEFINITION OF TERMS:

In writing these General Conditions of Contract, the specification and bill of quantity, the following works shall have the meanings hereby indicated unless there is something in the subject matter or content inconsistent with the subject.

CREDA shall mean the Chhattisgarh State Renewable Energy Development Agency represented through the CEO.

The "Engineer in charge" shall mean the Engineer or Engineers authorized by CEO, for the purpose of this contract. CREDA Engineer shall mean any Engineering person or personnel authorized by CREDA to supervise **for Supply, Installation & Commissioning of CST (Concentrated Solar Technology) Systems except single axis systems having 16 Sq. mtr. & 32 Sq. mtr. Scheffler dishes, Box Type Solar Cooker, Solar Dryer anywhere in the State of Chhattisgarh.**

"The contractor" shall mean the successful bidder awarded with the contract or their successors and permitted assigns. Contract Price shall mean the sum named in or calculated in accordance with the provisions of the contract as the contract price. General Conditions shall mean these General conditions of Contract.

"Specifications" shall mean the specifications annexed to these General Conditions of contract and shall include the schedules and drawings attached thereto or issued to the contractor as well as all samples and pattern, if any, "Month" shall mean calendar month. "Writing" shall include any manuscript, typewritten; printed or other statement reproduced in any visible form whether under seal or under hand.

2. CONTRACT DOCUMENT:

The term "Contract" shall mean and include the General conditions, specifications, schedules, drawings, supply orders etc issued against the contract schedule of price or their final general conditions, any special conditions applying to the particular contract specification and drawings and agreement to be entered into. Terms and conditions not herein defined shall have the same meaning as are assigned to them in the Indian contract Act

3. MANNER OF EXECUTION:

Execution of work shall be carried out in an approved manner as outlined in the technical specifications or where not outlined, in accordance with relevant Indian Standard Specifications or MNRE (where ever required), to the reasonable satisfaction of CREDA

4. **CONTRACTORS DEFAULT LIABILITY:**

CREDA may upon written notice of default to the contractor terminate the contract in circumstances detailed hereunder:

- (a) If in the judgment of the CREDA, the contractor fails to supply the items within the time specified in the contract agreement or within the period for which extension has been granted by CREDA to the contractor.
- (b) If in the judgment of CREDA, the contractor fails to comply with any of the provisions of this contract.
- (c) In the event CREDA does not terminate the contract as provided in paragraph (a) the contract shall continue performance of the contract in which case he shall be liable to CREDA for penalty for delay as set out in this contract until the work is completed.

5. **FORCE MAJEURE:**

The contractor shall not be liable for any penalty for delay or for failure to perform the contract for reasons of FORCE MAJEURE such as act of God, acts of public enemy, acts of government, cyclone, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes provided that the contract, shall within 10 (ten) days from the beginning of such delay notice to CREDA in writing of the cause of delay. CREDA shall verify the facts and grant such extension as facts justify.

6. **REJECTION OF WORKS:**

In the event of any of the material supplied by the contractor is found defective in material or workman ship or otherwise not in conformity with the requirement of this contract specifications, CREDA shall both reject the material and / or work and advise the contractor to rectify the same. The contractor on receipt of such notices rectify or replace the defective material and rectifies the work, free of cost. If the contractor fails to do so, CREDA may,

- a) At its option replace or rectify such defective materials and recover the extra cost so involved from the contractor plus fifteen percent penalty from the contractor and/ or terminate the contract for balance work/ supplies with enforcement of penalty as per contract.
- b) Defective materials will not be accepted under any conditions and shall be rejected outright without compensation. The contractor shall be liable for any loss/ damage sustained by CREDA due to defective work.

7. **WARRANTEE PERIOD:-**

The work done by the contractor as per specifications should be warranted for satisfactory operation for a period of Sixty months (5 years) from the date on which **Supply, Installation & Commissioning of CST (Concentrated Solar Technology) Systems except single axis systems having 16 Sq. mtr. & 32 Sq. mtr. Scheffler dishes, Box Type Solar Cooker, Solar Dryer** completed. The above warrantee certificate shall be furnished in triplicate to CREDA at the time of billing. Any defect noticed during this period should be rectified by the supplier free of cost upon written notice provided such defects may be due to bad workmanship or bad materials used.

8. **TERMS OF PAYMENT:**

The following terms of payment shall apply for the tender in case of CREDA Purchase: -

- a) 50% against delivery of the system material on site in parts as and when material is supplied and Invoice is raised.
- b) 45% of the value of the work order along with the value of taxes and duties after supply or supply, installation & satisfactory commissioning (whichever is applicable) of the system as per norms.
- c) 5% value of the total work ordered issued under the RFP shall be treated as Security Deposit & may be released only after 5 Years or on submission of Bank Guarantee of equivalent amount valid for FIVE YEARS.
- d) Amount of COMC shall be released quarterly on the submission & due verification of the reports. The bidder should clearly mention the Rates of COMC(for five years) in the Price bid.

9. **PENALTY FOR DELAY IN COMPLETION OF CONTRACT:**

If the contractor fails to complete the order within the phased delivery schedule specified in the work order or any extension granted there to, CREDA will recover from the contractor as penalty a sum of one percent (1%) of the contract price of the uncompleted portion of the work each calendar week delay. The total penalty shall not exceed 10% (Ten percent) of the contract price of the uncompleted portion of work.

10. **SECURITY DEPOSIT:**

The EMD may be treated as SD after signing the agreement, however the total amount of SD thus deposited must not exceed 5% of the total work order value issued under this RFP. This SD amount may be released only after Five Years or on submission of Bank Guarantee of equivalent amount valid for FIVE YEARS. The bank guarantee shall be executed in stamp paper worth ₹250/- or as per the prevailing legal requirements. No interest shall be payable on the Security Deposit. However the SSI units having valid registration under NSIC shall be exempted from security deposit.

TERMS AND CONDITIONS

1. The manufacturer must be channel partners of MNRE for CST based systems.
2. The manufacturer **should have experience of supply, installation & commissioning of above system aggregating 500 sq.mtr. anywhere in country,** which are currently running properly. MNRE sanction letters for the same should be produced.
3. The manufacturer should have minimum 03 years experience of Supply, Installation & Commissioning of required CST based systems & other system specified in the bid.
4. The manufacturer shall supply all technical literature and drawing considered necessary for the installation, operation and maintenance of the equipment and its fittings. These shall essentially include:-
 - a) Drawing showing over all dimensions and all other details including sectional view of the equipments.
 - b) List of parts with reference to nos.
 - c) Manual of instructions for the operation, maintenance and repairs/equipment and special fittings, if any.
 - d) Checking methods and schedule for cleaning the system.
 - e) Any other relevant technical data which would be of assistance for efficient operation and maintenance of the system including energy savings etc.
5. The supplier shall train beneficiary organization's/Department's personnel for the operation and maintenance of the equipment for a particular period, mutually agreed between the supplier and the beneficiary organization/Department.
6. The suppliers will have to undertake repair of the system installed by them, in case of any defect arising out of any point of time during warranty period. Supplier will attend the minor complaints within 48 hours of receiving the complaint otherwise penalty to be recovered per day as decided by the Engineer-in-charge.
7. The supplier shall guarantee the performance of the system for the rated output of steam/heat for the cooking application.
8. All the elements of the system which fail due to manufacturing defect within the period of guarantee shall be replaced by the bidder free of cost.

Note: - These terms & conditions will be in addition to already existing conditions of the RFP.

SCOPE OF WORK:

In the work of Supply, Installation & Commissioning of **for Supply, Installation & Commissioning of CST (Concentrated Solar Technology) Systems except single axis systems having 16 Sq. mtr. & 32 Sq. mtr. Scheffler dishes, Box Type Solar Cooker, Solar Dryer anywhere in the State of Chhattisgarh** with Maintenance Contract (COMC), anywhere in Chhattisgarh, Systems should conform to the relevant standards or specification laid down in the tender with warranties as specified in the RFP, on turnkey basis. **The rates shall be quoted separately on separate price bid (to be enclosed in envelope E-4). Each Price Bid should be kept in a separate sealed envelope (E-4-1, E-4-2, E-4-3 & E-4-4). On the top of each of these sealed envelopes the name of the product/system should be clearly typed or hand written for which the rates are quoted. All these sealed envelopes should be sealed in the E-4 envelope. Only those price bids should be submitted for which the rates are being quoted & technical bid are submitted.**

CREDA also intends to supply, installation & Commissioning of various CST based systems in the State of Chhattisgarh as per the requirements of clients for following applications:-

- Laundry Application
- Steam Generation for Process heat
- Process Space heating for industrial application
- Air Conditioning with VAM
- Cold Storage
- Heat for cremation - Crematorium
- Water / Milk pasteurization
- Waste Water Distillation
- Boiler feed water or Water heating for Process Industries and Institutions
- Thermic Fluid Heating for industrial applications
- Power Generation

SCHEDULE - I
PART 'A': GENERAL INFORMATION

(Strike off whichever is not applicable. Separate sheets should be used, wherever necessary)

- | | | | |
|-----|---|---|----------------------|
| 01. | Name & Address of the bidder | : | |
| 02. | Name & Address of the firm/Company etc. | : | |
| | a) Registered office | : | |
| | b) Factory/works address | : | |
| | c) Fax Nos. | : | |
| | d) Telephone / Mobile Nos. | : | |
| | e) Email id | : | |
| 03. | Confirm whether bidder is Manufacturer | : | Yes/No |
| 04. | Only manufacturer to give following particulars | : | |
| | a) Address of factory | : | |
| | b) Year of starting manufacture | : | |
| | c) Whether same/similar materials
Manufactured earlier
(if yes, give reference) | : | |
| | d) Yearly/monthly production capacity | : | |
| | e) Maximum yearly production
Achieved so far | : | |
| 05. | Whether the firm is SSI Unit of
Chhattisgarh State: | : | Yes/No |
| | a) If yes, write registration No. | : | |
| | b) Whether documentary evidence
Regarding registration enclosed | : | |
| | c) Items for registration | : | |
| | d) Period of registration | : | |
| 06. | Whether the firm is 100% owned by | : | |
| | a) State Government | : | Yes/No |
| | b) Central Government | : | Yes/No |
| | If yes, Notification/certificate issued from
The competent authority to this effect is
Enclosed | : | Yes/No |
| 07. | a) Whether the bidder is old participant
with CREDA | : | Yes/No |
| | b) Whether bidder is having NSIC certificate | : | Yes/No |
| | c) If yes, whether documentary
Evidence is enclosed. | : | Yes/No |
| 08. | Any other information that bidder may like
to give in order to highlight his bid | : | If yes, give details |

PLACE :

SIGNATURE OF BIDDER
NAME IN FULL

DATE:

DESIGNATION/STATUS

FIRM/COMPANY SEAL

SCHEDULE - I

PART 'B': COMMERCIAL INFORMATION

(Strike off, which ever is not applicable. Separate sheets should be used. Wherever necessary)

01. i) Earnest Money Details : Bank draft/Bankers cheque payable to
CREDA, Raipur
- ii) Amount of E.M.D. & full details : ₹
- iii) If exempted, state whether the bidder / Fully Owned State/Central Govt. Unit NSIC registered SSI unit : SSI Unit of C.G.
- iv) Reference of documentary evidence regarding exemption enclosed. : Yes/No
02. Whether the offer is valid for 01 year from the date of opening of commercial/technical bid. : Yes/No
03. A) Concessional Sales Tax /GST Tax/Commercial : a) Concessional Central sales Tax against declaration form & GST declaration.
b) Concessional State Sales Tax/Commercial tax against delaration form.
- B) Rate of Sales Tax/GST on the date of bid: (exclusive in the rate quoted)
04. **DISCOUNT:**
- a) Whether any rebate/discount is offered. : Yes/No
- b) If yes, whether the rebate is unconditional/conditional Rate/amount of rebate/discount :
:
- c) If conditional State condition :
05. **PAN** :
06. **TIN** :
07. **S. Tax/GST Registration No.** :
08. **PAYMENT TERMS:**
- Whether CREDA's terms of payment is acceptable to bidder : Yes/No
09. **COMPLETION PERIOD OF WORK:**
- Whether bidder is agreeing for completion period of work as specified in the RFP : Yes/No
10. **PENALTY CLAUSE:**
- Whether agreeable to CREDA's Penalty Clause : Yes/No
11. Whether agreeable to CREDA's clause of warrantee period : Yes/No
12. **SECURITY DEPOSIT:**
- Whether Security Deposit clause is understood : Yes/No
13. Indicate State, Central Sales Tax/GST Registration Number : State
(Please Note that in case of non-registration with Sales Tax Department Purchase Tax as admissible shall be deducted by the Purchaser from the Bills of the supplier) : Central
14. Whether photocopy of the clearance from Income Tax & Sales Tax Deptt. and profit & loss Account and Turn over for last (If no, then give details) 3 years up to the last financial year have been enclosed. : Yes/No
15. Please mention whether rates offered are applicable for part quantities. : Yes/No

DATE:

SIGNATURE OF BIDDER
NAME IN FULL
DESIGNATION/STATUS
FIRM/COMPANY SEAL

SCHEDULE - I

PART 'C' : TECHNICAL INFORMATION

(Strike off whichever is not applicable. Separate sheets should be used. Wherever necessary)

- 01. Whether material offered is exactly as per technical specification : Yes/No
- 02. Whether the copies of orders received during last 3 years from other : Yes/No
State Nodal Agency or from other Organization for similar materials (if yes, give details)
enclosed.
- 03. Whether performance certificate from such Organization regarding : Yes/No
supplies is enclosed. (if yes, give details)
- 04. Whether pamphlets/technical details literatures along with drawing etc. : Yes/No
furnished with the offer (if yes, give details)
- 05. Whether the Bidder agrees to furnish material test certificates in : Yes/No
respect of chemical composition and physical properties from Govt./
Govt. approved lab with each batch of supplies.
- 06. Whether the Bidder has furnished details of manufacturing : Yes/No
equipments and short history of plant (if yes, give details)
- 07. Whether details of manufacturing process furnished with offer. : Yes/No
(if yes, give details)
- 08. a) Whether all testing facilities are available. : Yes/No
If so, give details and in case of non-availability of facilities indicate
approved lab available in surrounding areas where tests are proposed to be conducted.

PLACE

SIGNATURE OF BIDDER

DATE

NAME IN FULL.....

DESIGNATION/STATUS.....

FIRM/COMPANY/SEAL.....

SCHEDULE - II
PAST EXPERIENCE

From:
Bidder's Name & Address: -

To,
The CEO,
CREDA, HO,
Raipur

Sub: - Performance/past experience.

Dear Sir,

We furnish herewith the record of our performance and experience as follows:-

Sl.No.	Purchaser's Name & Address	Order No. Date	Ordered Quantity	Qty. supplied (Nos.)	Value of Order
--------	-------------------------------	-------------------	---------------------	-------------------------	-------------------

PLACE

DATE

SIGNATURE OF BIDDER

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

***NOTE:** -Photocopy of the orders & performance reports received from other State Agencies/Govt. Undertakings etc. should be enclosed.

**MINIMUM TECHNICAL SPECIFICATIONS OF VARIOUS COMPONENTS
OF SOLAR STEAM/ PRESSURIZED HOT WATER/OIL GENERATING
SYSTEMS(MINIMUM SIZE-10 Sq. mtr)**

(Revised based on inputs received from some experts/manufacturers)

The solar steam/pressurized hot water/oil generating system will comprise of automatically tracked parabolic concentrators and balance of system (BOS) for conditioning and utilizing thermal energy in working fluid. The working fluid can be in the form of water, steam and organic or inorganic fluid. BOS may consist of solar thermal receivers, steam/ hot water/oil pipelines, feed water/oil pumps, tank assemblies, steel structures and civil works, instrumentation like pressure gauges and temperature indicators etc. It will be hooked up with conventional system already in use for specific applications. In case of new systems, fossil fuel based boiler, vessels for cooking/ vapour absorption machine for cooling etc may be provided as the case may be. Minimum technical specifications of various components of the system will be as per below:

Concentrators	
Shape & make of each concentrator	Of any shape made of reflecting mirror(s) fixed to a supporting frame / structure
Aperture Area/Reflector Area	10 sq. m minimum (for Scheffler dishes, it will be / 4 x lengths of major & minor axis of the ellipse)
Reflecting mirrors i) Material* ii) Reflectivity iii) Mirror fixing	i) High quality glass mirrors/Aluminium mirror for outdoor use with protective layers of coating on back surface and sides to protect from exterior weathering effect or any other For coastal and colder regions, special protections to be made. ii) 90% minimum with a maximum degradation of 10% over its life span. Warranty/ guaranty to be provided by the supplier if found deteriorating during this period. iii) With positive locking or sticking by industry proven outdoor-rated adhesives. Due protection of mirror coatings be taken while fixing the mirrors. Tying of mirrors with wires not acceptable. For high wind areas special protection to be made. * For newer upcoming technologies, reflectors other than glass mirrors will also be acceptable subject to fulfillment of all the above requirements
Concentration ratio (Aperture/ Receiver areas)	Over 80 for single axis and 120 for double axis tracking concentrators
Tracking Arrangement	
Any reliable automatic tracking mechanism with motorized reverse in evening & park at morning position including safe position in case of abnormal operating conditions. Made of standard components; to be protected from rain, dust & outside environment Tracking accuracy : +/- 0.5 degree (to be ensured using field-calibrated inclinometer)	

<p>Heat receivers, Headers and piping</p> <p>Tested working fluid pressure: 1.5 times of designed pressure Receivers : Of boiler/standard industry quality to sustain required temperature and pressure Header material and piping : Designed & manufactured as per IBR/ standard industry quality</p>
<p>Insulation</p>
<p>All working fluid piping to be insulated with minimum thickness of 50 mm of PUF or rock wool. Headers or water-steam tank, insulated sides of receiver etc. to have minimum insulation of 75 mm. For colder regions facing sub zero temperatures, minimum thickness will be 100 mm and 150 mm respectively. In such regions cold water pipe lines including valves etc. will also be insulated. Insulation on receivers should withstand a minimum temperature of 600c. All insulated components to have Al sheet or powder coated steel sheet cladding as per industrial practices so as not to allow rain water to sip in the insulation.</p>
<p>Frames & supporting structure</p>
<p>Strong enough to avoid any deformation of the reflector dish during manhandling/ tracking/under wind pressure of 150 km per hour of mild steel/ any other strong material with epoxy/anti-rust coating. It should be power coated or having 2 coats of red oxide primer & than a proper coat of paint to avoid rusting for long duration.</p>
<p>Instrumentation & Controls</p>
<p>Complete with all instrumentation such as pressure gauge, temperature indicator, fluid level indicators, safety valves, fluid meter etc. Data acquisition and control system with online monitoring to be installed for automatic monitoring, control and record of all important process parameters in installations <u>above 500 sq. m. of dish area.</u></p>
<p>Other requirements</p>
<p>Systems with Scheffler dishes having single axis automatic tracking arrangement will not be installed with more than 30 dishes at a place. <u>For bigger systems, the dishes have to be of two axis automatic tracking mechanism.</u> All parts/components will be of weather resistant design/specifications to withstand natural weathering outdoors under local climatic conditions, for a minimum period of 15 years. Warranty for a minimum period of 5 years will be provided by the supplier. Necessary spares will also be provided so that the user do not face any problem at-least during the warranty period. The steel structures provided to support various components of the system will be fabricated in such a way that they are able to take load (both wind load and static dead load) of the whole system. <u>In case the terrace where the system is to be installed is not strong enough to bear the loads, these should be transferred into columns and beams and the proposed load arrangement must be discussed with the concerned civil engineering department and their approval obtained.</u> The personnel of the buyer/user institution will be trained by the supplier in the operation and maintenance of the system and its back-up system. Proper manuals will be prepared and provided to the user. Log book will also be supplied to the and user so that proper documentation is maintained. The other important features of system will be i) it will have easy access to the user and proper walkway and platforms will be supplied for easy operation and maintenance of the system wherever necessary ii) safety features such as safety under pressure and iii) proper instrumentation as mentioned above will be provided so that user could see the status of system and take precautions /corrective steps if the system does not behave as expected.</p>

Note: General

- a) *Any improvements in the above specifications of all types of solar concentrating systems, leading to cost reduction and/ or and higher efficiency of the system will be acceptable.*
- b) *The manufacturer/ supplier will provide the details of his system in the proposal with schematic diagram showing each and every component, its working procedure, tracking arrangement, technical specifications with quantum and size of various components and other highlights, if any along with a test report of his dish from one of the Test Centers of MNRE.*
- c) *If bidder is having any other system approved from MNRE than its price along with specification should be quoted in a separate envelop as **“OPTIONAL CATEGORY”***



MINIMUM TECHNICAL SPECIFICATIONS OF DISH SOLAR COOKERS

Reflecting Bowl	
Parabolic dish made of single/ multiple reflectors fixed firmly to a rigid frame. The size and shape of the reflectors is such when joined/fixed they automatically form a parabolic dish	
Dish area	1 sq. m minimum
Reflecting mirrors	
i) Material	i) Bright anodized aluminum sheets/ glass mirrors/ polymer film/ any other better and durable material with protective layers of coating on back surface and sides to protect from exterior weathering effect. For coastal and colder regions, special protections to be made.
ii) Reflectivity	ii) 80% minimum with a maximum degradation of 10% over its life span. Warranty/ guaranty to be provided for a period of five years
iii) Mirror fixing	iii) With positive locking or sticking by good quality adhesives. Due protection of mirror coatings to be taken while fixing the mirrors. Tying of mirrors with wires not acceptable. For high wind areas special protection to be made.
Concentration ratio	Over 80
Bowl supporting frame	
The supporting frame for the reflecting bowl will be made of MS rings supported by MS strips or FRP material/ thick MS wire-mesh structure. It will be rigid enough to avoid any deformation of the bowl shape during manual/ handling or under wind pressure. The MS structure will have epoxy/ ant-rust coating.	
Bowl stand	
Of mild steel epoxy/ powder coated. With arrangement to hold cooking vessels of different sizes. With suitable provision for securing the cooker to the ground.	
Cooking vessel	
ISI mark pressure cooker of suitable capacity. Resistant black powder coated bottom. In case, no vessel is supplied, the user needs to be told to paint the bottom of his vessel black.	
Other requirements	
<p>The entire structure will be strong enough to withstand wind of 150 km per hour without any damage</p> <p>All parts/components will be of weather resistant design/specifications to withstand natural weathering outdoors under local climatic conditions, for a minimum period of 15 years. Warranty for a minimum period of 5 years will be provided by the supplier. Necessary spares will also be provided so that the user do not face any problem atleast during the warranty period.</p>	

Note:

Any improvements in the above specifications of all types of concentrating solarcookers, leading to cost reduction and/ or and higher efficiency will be acceptable. Manufacturers /suppliers will, however, provide necessary mechanism for checking the performance & technical specifications of their cookers along with a test report from one of the Test Centers of MNRE and prove to the inspection committee that the cookers provided by them are as per above specifications based on which CFA from MNRE will be released.



SPECIFICATIONS OF BOX TYPE SOLAR COOKER

The box type solar cooker-

1. Should be as per **BIS (IS 13429:2000)**, with size **550mmx550mmx170 mm ± 20 mm**.
2. With **four matt black coated** cooking pots (with lid)(**made of stainless steel IS 4536 Part-I, II/ IS 5522**)
3. Solar cooker must have **thermal performance (F1) not less than 0.12** (ie, Grade A).
4. The cover plate should be double glazed made of **toughened glass** with over all transmittance of not **less than 65%**.
5. The body of the solar cooker should be **1.00 mm thick UV resistant FRP**.
6. The gaskets must be made of **neoprene/EPDM** on minimum **2 mm** Thickness.
7. **Mirror reflectivity** should **not be less than 75%**.
8. Each solar cooker must be provided **with four castor wheels** as per **BIS 13429**.
9. All parts of the cooker must be made of **rust/ corrosion free materials**.
10. The solar cooker must carry a label indicating manufacturers name, complete address, telephone numbers and **CREDA Supply** mark.
11. **BIS certificate/Test report** from MNRE approved test centers must be enclosed for conformity of the product **with above specifications**.
12. In case of Solar cooker with electrical back up, the cooker should be with **thermostatically controlled electrical backup of min.200 W to 400 watt (± 10%)** with arrangement for **low and high setting** and **on/off switch and min. 6' cord with all necessary safety controls**.

Specifications not included here shall be as per **IS 13429:2000**.



PRICE BIDS

FOR

TO BE ENCLOSED

IN

SEPARATE ENVELOPE



To be kept in a separate envelope E-4 properly sealed & submitted inside envelope E-4

PRICE BID-I

(Supply, Installation & Commissioning of CST (Concentrated Solar Technology)

Solar Steam Cooking System - consists of Parabolic Concentrator Steam Header / Drum Assembly & Instrumentation / Support structure & Civil work.

Price List:-

Please keep separate bids for High quality glass mirrors system and Aluminium mirror system in below given table:-

Sl. No.	Persons per Session	System Type	Min. Dish Reflector Area Requirement in M ²	Min. Space requirement in M ²	Rate (in ₹) (Exclusive of GST)	GST (in ₹)	Rate of System (Inclusive of GST)	Rate of Backup Boiler inclusive of GST (in ₹) (Rate of GST.....)
01.	100-200	SSCS	48					
02.	201 - 350	SSCS	64					
03.	351 - 500	SSCS	96					
04.	700 - 800	SSCS	128					
05.	1000	SSCS	160					
06.	1500	SSCS	224					
07.	2000	SSCS	288					
08.	2500	SSCS	352					
09.	3000	SSCS	416					
10.	5000	SSCS	672					
11.	10000	SSCS	1248					

Sl. No.	Persons per Session	System Type	Min. Dish Reflector Area Requirement in M ²	GST (in ₹)	COMC (Comprehensive Operation & Maintenance Contract) rates after one year of system in ₹(inclusive of GST)			
					II nd year	III rd year	IV th year	V th year
01.	100-200	SSCS	48					
02.	201 - 350	SSCS	64					
03.	351 - 500	SSCS	96					
04.	700 - 800	SSCS	128					
05.	1000	SSCS	160					
06.	1500	SSCS	224					
07.	2000	SSCS	288					
08.	2500	SSCS	352					
09.	3000	SSCS	416					
10.	5000	SSCS	672					
11.	10000	SSCS	1248					

* The complete ordered material should be insured in transit. CREDA/Customer should not be held responsible for any damage of material in transit.

**The above rates shall be inclusive of all packing, forwarding, transportation, freight, supply, installation & commissioning bring to the user organization, considering the food habits, DNI etc. anywhere in the State of Chhattisgarh,

Place :

Date :

Seal & Signature of the Bidder



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PRICE BID-II(Solar Thermic Fluid Cooking System)

Solar Thermic Fluid Cooking System –

Including Oil Valves, Hot Oil Circulating Pumps, Cooking Vessels, Thermic Oil – USFDA approved, Oil Tank, Expansion Tank and control, Back-up boiler, necessary equipments, Temperature Gauge, Pressure Gauge, Control Panel, Tracking device & Temperature Controller.

Price List:-

Please keep separate bids for High quality glass mirrors system and Aluminium mirror system in below given table:-

Sl. No.	Persons per Session	Dishes Required	Min. Area of Dish Requirement in M ²	Min. Space requirement in M ²	Rate (in ₹)	GST(in ₹)	Rate inclusive of GST (in ₹)	Rate of Backup Boiler inclusive of GST (in ₹) (Rate of GST.....)
01.	100 - 200	2 @ 32	64					
02.	201 - 300	4 @ 32	128					
03.	301 - 500	6 @ 32	192					
04.	501 - 700	8 @ 32	250					
05.	701 - 900	10 @ 32	320					
06.	901 - 1000	12 @ 32	384					
07.	1001 - 1200	14 @ 32	448					
08.	1201 - 1500	16 @ 32	512					
09.	1501 - 1700	18 @ 32	576					
10.	1701 - 2000	20 @ 32	640					

Sl. No.	Persons per Session	Dishes Required	Min. Area of Dish Requirement in M ²	GST (in ₹)	COMC (Comprehensive Operation & Maintenance Contract) rates after one year of system in ₹(inclusive of GST)			
					II nd year	III rd year	IV th year	V th year
01.	100 - 200	2 @ 32	64					
02.	201 - 300	4 @ 32	128					
03.	301 - 500	6 @ 32	192					
04.	501 - 700	8 @ 32	250					
05.	701 - 900	10 @ 32	320					
06.	901 - 1000	12 @ 32	384					
07.	1001 - 1200	14 @ 32	448					
08.	1201 - 1500	16 @ 32	512					
09.	1501 - 1700	18 @ 32	576					
10.	1701 - 2000	20 @ 32	640					

* The complete ordered material should be insured in transit. CREDA/Customer should not be held responsible for any damage of material in transit.

**The above rates shall be inclusive of all packing, forwarding, transportation, freight, supply, installation & commissioning bring to the user organization, considering the food habits, DNI etc. anywhere in the State of Chhattisgarh,

Place :

Date :

Seal & Signature of the Bidder



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PRICE BID-III(Process Heat Application)

Solar Process Heat Systems : consists of Parabolic Concentrator Steam Header / Drum Assembly & Instrumentation / Support structure & Civil work.

Price List:-

Please keep separate bids for High quality glass mirrors system and Aluminium mirror system in below given table:-

Sr. No.	Heat Requirement per day in K. Cal., at use point from CST based system	Minimum length of insulated Pipeline to be provided with each of the system in Meters	Rate (in ₹)	GST (in ₹)	Rate inclusive of GST(in ₹)	Also indicate the rates of the insulated pipeline per meter if additional pipeline is required (inclusive of GST)	Rate of Backup Boiler inclusive of GST (in ₹) (Rate of GST.....)
01.	3,00,000	100					
02.	5,00,000	100					
03.	10,00,000	100					

Sl. No.	Heat Requirement per day in K. Cal., at use point from CST based system	Minimum length of insulated Pipeline to be provided with each of the system in Meters	GST (in ₹)	COMC (Comprehensive Operation & Maintenance Contract) rates after one year of system in ₹(inclusive of GST)			
				II nd year	III rd year	IV th year	V th year
01.	3,00,000	100					
02.	5,00,000	100					
03.	10,00,000	100					

* The complete ordered material should be insured in transit. CREDA/Customer should not be held responsible for any damage of material in transit.

**The above rates shall be inclusive of all packing, forwarding, transportation, freight, supply, installation & commissioning bring to the user organization, considering the food habits, DNI etc. anywhere in the State of Chhattisgarh,

Place :

Date :

Seal & Signature of the Bidder



To be kept in a separate envelope E-4 properly sealed & submitted inside envelope E-4

PRICE BID-IV(Air-Conditioning System)

Supply, Installation & Commissioning of CST (Concentrated Solar Technology) based Solar Air-conditioning System anywhere in the State of Chhattisgarh - consists of VAM, Parabolic Concentrator Assembly & Instrumentation, Support structure & Civil work.

(Please keep separate bids for High quality glass mirrors system and Aluminium mirror system in below given table):-

S N	Description of Complete System (with all components)	Total Reflect- ive Area	Rate (₹)	Rate of VAM	GST (₹)	Rate of Complete system inclusive of GST(₹)	Rate of VAM inclusive of GST (₹)	Rate of Backup Boiler inclusive of GST (₹)
1	Design, Supply, Installation, Commissioning and testing of complete TR Solar Air-conditioning System with minimum reflector area of Sq. mtr any where in the State of Chhattisgarh - consists of VAM, Parabolic Concentrator(Bright solar grade aluminium mirrors of especially developed for outdoor use with reflectivity of over 90% or any other Solar Grade Glass Mirror with more than 15 years life) Assembly & Instrumentation, Support structure & Civil work. all related civil & mechanical work with antirust treatment at site as per technical specifications, terms and conditions mentioned in the tender inclusive of all taxes and duties, trade tax/vat, storage, transportation up to site, insurance etc. & any other job required to properly execute the complete work with Five Year's comprehensive warranty including mirror and maintenance.							
Amount in Words								
2	Same as above but 20 TR Solar Air-condition System with minimum reflector area of 256 Sq. mtr to be installed anywhere in C.G							
Amount in Words								
3	Same as above but 40 TR Solar Air-condition System with minimum reflector area of 512 Sq. mtr to be installed anywhere in C.G							
Amount in Words								
4	Same as above but 80 TR Solar Air-condition System with minimum reflector area of 1024 Sq. mtr to be installed anywhere in C.G							
Amount in Words								
5	Same as above but 100 TR Solar Air-condition System with minimum reflector area of 1280 Sq. mtr to be installed anywhere in C.G							
Amount in Words								

* The complete ordered material should be insured in transit. CREDA/Customer should not be held responsible for any damage of material in transit.

**The above rates shall be inclusive of all packing, forwarding, transportation, freight, supply, installation & commissioning bring to the user organization, considering the food habits, DNI etc. anywhere in the State of Chhattisgarh,

Place :

Date :

Seal & Signature of the Bidder



To be kept in a separate envelope E-4 properly sealed & submitted inside envelope E-4

PRICE BID-V (Box Type Solar Cooker)

(Please keep separate bids for High quality glass mirrors system and Aluminium mirror system in below given table in case of Dish type cookers):-

Sr. No.	Type of Solar Cooker (Box/Dish)	Size/Aperture Area of Solar Cooker (in Sq. mtr)	Rate of Solar Cooker inclusive of all taxes (exclusive of GST)	GST (in ₹)	Rate of Solar Cooker inclusive of all taxes & GST (in ₹)
01.					
02.					
03.					

- a) If bidder is having any other system approved from MNRE than its price along with specification (approved from MNRE) should be quoted in a separate envelop as **“OPTIONAL CATEGORY”**

Place :

Date :

Seal & Signature of the Bidder



To be kept in a separate envelope E-4 properly sealed & submitted inside envelope E-4

PRICE BID-V(Solar Dryer)

Sr. No.	Description of Solar Dryer	Type of Solar Dryer	Loading Capacity of Solar Dryer (in Sq. mtr)	Drying Area	PV panel Capacity	Electrical Backup	Rate of Solar Dryer inclusive of all taxes (exclusive of GST)	GST (in ₹)	Rate of Solar Dryer inclusive of all taxes & GST (in ₹)	COMC cost (in ₹)
01.										
02.										
03.										

a) If bidder is having any other system approved from MNRE than its price along with specification should be quoted in a separate envelop as **“OPTIONAL CATEGORY”**

Place :

Date :

Seal & Signature of the Bidder



Agreement

This agreement is hereby made today the _____ day of _____ 2018 at _____ between M/s _____, a company / firm registered under the Companies Act, / Partnership Act / _____ Act, having its registered office at _____, (hereinafter called as "Bidder", the term which includes its successors, assigns and legal heirs), through _____ resident _____ on one hand and Chhattisgarh State Renewable Energy Development Agency-CREDA registered under Societies Act having its Registered office at **Bio-diesel Plant Premises, Near Energy Education Park, VIP Road, Raipur** (hereinafter called as "CREDA" the term which includes its successors, assigns and legal heirs) through Shri S. M. Deshpande, CE, CREDA, Gitanjali Nagar, Raipur, on the other hand on the following terms and conditions:-

1. Whereas, the "CREDA" intends to **Supply, Installation & Commissioning of CST (Concentrated Solar Technology) Systems except single axis systems having 16 Sq. mtr. & 32 Sq. mtr. Scheffler dishes, Box Type Solar Cooker, Solar Dryer anywhere in the State of Chhattisgarh from the manufacturers of the CST who are registered channel partner of MNRE.** "Bidder" had submitted their rates and agreed to repair the "Work" to CREDA on the rates appended hereto in Annexure No. 1, as per the terms and conditions of the offer already agreed upon, and,
 2. Whereas, the rates quoted by the "Bidder" are inclusive of all taxes, duties, levies, transport and all other incidental expenses F.O.R. at site and the "Bidder" shall not increase the rates of the "Work" up to **01 year from the date of agreement** and the rates mentioned in Annexure -1 shall be valid for a further period of Twenty Four months or more with mutual agreement, and,
 3. Whereas, the "Bidder" is committed to execute the " Work " at the ordered site, on the rates already agreed upon, within the schedule mentioned in the Work/Supply orders that shall be issued from time to time, and,
 4. Whereas, it has been also agreed upon that during any disputes regarding interpretation of any of the clauses of this agreement, the decision of the "Chief Executive Officer, CREDA" shall be final and binding on both the parties,
 5. Whereas, it is agreed upon that all the terms and conditions of the offer and work/ supply orders which have already been agreed upon shall form part of this agreement, and,
 6. Whereas, it has also been agreed that for any disputes arising, the jurisdiction shall be the Courts of Raipur,
- In witness whereof, both the parties thereto, put their signatures below:

Witness

1-----

2-----

**For and on behalf of
"Bidder"**

**For and on behalf of
"CREDA"**