



Chhattisgarh State Renewable Energy Development Agency (CREDA)

Near Energy Education Park, Village Fundhar

VIP (Air Port Road) Raipur 492015 (C.G.)

Ph.: 0771-7112473/7112459

E-mail: info@creda.in, Website: www.creda.co.in

E-BID DOCUMENT No. II818/CREDA/BID/SMK/2020

RFX No. - 8I000I9604

**STANDARDIZATION OF RATES FOR DESIGN & SUPPLY WITH 05 YEARS
COMPREHENSIVE UNCONDITIONAL WARRANTEE OF SOLAR MOTHER CARE CUM
MATERNITY KIT ANYWHERE IN THE STATE OF CHHATTISGARH**

Important Events and their schedule for this E-Bid are as follows-

S.N	Particulars	From Date & Time	To Date & Time	Place
1	Date of issue of notice inviting bid	04-12 -2020 05:00 PM	----	http://www.creda.co.in
2	Period of availability of bidding document at website	04- 12 -2020 05:00 PM	28- 12 -2020 05:00 PM	http://www.creda.co.in
3	Pre Bid queries Submission in writing	14- 12 -2020 12:00 Noon	14- 12 -2020 02:00 PM	CREDA, H.O., Near Energy Education Park, VIP Road, Raipur
4	Submission of samples for inspection	15- 12 -2020 12:00 Noon	15- 12 -2020 02:00 PM	CREDA, H.O., Near Energy Education Park, VIP Road, Raipur
5	Submission of Technical Bid	28- 12 -2020 11:00 AM	28- 12 -2020 05:00 PM	
6	Submission of e-Price Bid through http://www.cspc.co.in	14- 12 -2020 05:00 PM	28- 12 -2020 05:00 PM	Online through http://www.cspc.co.in
7	Opening of Technical Bid	29- 12 -2020 11:00 AM	29- 12 -2020 02:00 PM	CREDA, H.O., Near Energy Education Park, VIP Road, Raipur
8	Declaration of eligible Bidder	29- 12 -2020 03:00 PM	29- 12 -2020 04:00 PM	
9	Opening of e-Price Bid	29- 12 -2020 04:30 PM	29- 12 -2020 05:00 PM	

Bid Document Cost: Document can also be downloaded from our website <http://creda.co.in/> with the cost of Bid as mentioned in NIT, which shall have to be deposited along with the Bid document

TABLE OF CONTENTS

S.N.	Description	Page No.
A	Notice Inviting E-Bid	3
B	Check List	5
C	Undertaking by the Bidder	6
D	General Information about this Bid	7
E	Instructions for Bidders	8-12
F	General Conditions of Contract	13-20
G	Scope of Work	21
H	Technical Specifications	22-26
I	Schedule - I	27
J	Schedule - II	29
K	Schedule - III	30
L	Schedule - IV	31
M	Draft of Agreement	32
N	Price Bid	33-34

Ref. No. 11818/CREDA/Bid/2020

Date : 04.12.2020

NOTICE INVITING LIMITED BID

CREDA invites sealed Bids from registered system integrators in CREDA in SPV Projects for FY 2020-21 for Standardization of rates for Design & supply of Solar Mother Care cum Maternity Kit with five years comprehensive unconditional warrantee, at anywhere in the state of Chhattisgarh.

S N	Item Description	Cost of Bid Document	EMD	Essentials*
1	Design & supply of Solar Mother Care cum Maternity Kit anywhere in Chhattisgarh state.	₹5,000.00 + 18% GST = ₹5,900.00	₹5.00 Lacs/- (For Start-up/ New Entrepreneur bidders EMD shall be ₹1.00 Lacs)	<ul style="list-style-type: none"> Bidder should have a valid registration certificate as system integrator in CREDA in SPV Programme for FY 2020-21. Bidder shall have direct experience of supply of minimum 10 Solar Mother Care cum Maternity Kit, whereas start-up/New Entrepreneur companies of Chhattisgarh shall have direct experience of supply of minimum 02 Solar Mother Care cum Maternity Kit; a list and Performance Certificate issued by Govt./Govt. Undertaking shall be mandatory to submit as a proof for the same.

Important Events and their schedule for this E-Bid are as follows-

S.N	Particulars	Date	Time	Place
1	Date of issue of notice inviting bid	04-12 -2020 05:00 PM	----	http://www.creda.co.in
2	Period of availability of bidding document at website	04- 12 -2020 05:00 PM	28- 12 -2020 05:00 PM	CREDA, H.O., Near Energy Education Park, VIP Road, Raipur
3	Pre Bid queries Submission in writing	14- 12 -2020 12:00 Noon	14- 12 -2020 02:00 PM	CREDA, H.O., Near Energy Education Park, VIP Road, Raipur
4	Submission of samples for inspection	15- 12 -2020 12:00 Noon	15- 12 -2020 02:00 PM	
5	Submission of Technical Bid	28- 12 -2020 11:00 AM	28- 12 -2020 05:00 PM	
6	Submission of e-Price Bid through http://www.cspc.co.in	14- 12 -2020 05:00 PM	28- 12 -2020 05:00 PM	Online through http://www.cspc.co.in
7	Opening of Technical Bid	29- 12 -2020 11:00 AM	29- 12 -2020 02:00 PM	CREDA, H.O., Near Energy Education Park, VIP Road, Raipur
8	Declaration of eligible Bidder	29- 12 -2020 03:00 PM	29- 12 -2020 04:00 PM	
9	Opening of e-Price Bid	29- 12 -2020 04:30 PM	29- 12 -2020 05:00 PM	

Chief Engineer, CREDA

Note:-

1. Financial bid deposited by the bidders can only be open after approval of their samples and technical bids on the mentioned date and time.
2. Price Bid shall be submitted online only at <http://www.cspc.co.in>* however technical bid will have to be submitted in hard copy at CREDA, Head Office, Raipur. Bidders are advised to follow the instructions provided for Registration and E Submission Process accordingly. (for any query about e-bidding please visit user manual at <http://www.cspc.co.in>).
3. The bid forms, General Instructions to Bidders and other details including amendments/changed can be viewed/ downloaded from website <http://www.creda.co.in/>
4. Bid notice is also available on CREDA website <http://www.creda.co.in/> the link notice or <http://www.cspc.co.in>.
5. Samples will be tested at CREDA, Head Office, Near Energy Education Park, VIP Road, Raipur.
6. Technical bid will be opened at Office of Chief Engineer, CREDA, RE-03, near Energy Education Park VIP Road Raipur (C.G).
7. Details of this tender are mentioned at Tender Documents which can be downloaded from our website www.creda.co.in. The Bidder should have to deposit tender document cost, along with EMD as mentioned above through demand draft payable to CREDA Raipur while submitting tender.
8. Bidders are requested to attend Pre Bid meeting with their suggestions/objections/reservations if any with details so as to avoid any confusion and to ensure clarity and transparency regarding the tender.
9. Any amendment/ corrigendum shall only be uploaded on website of CREDA.
10. CREDA reserves all rights to accept/reject any or all Bids in full/part without assigning any reasons.

Chief Engineer, CREDA

B. Check List

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

S. No.	Description	Attached / Not Attached	Page no. if attached
1	Proof of submission of Bid Fee and EMD		
2	Proof of submission of samples of complete system in CREDA		
3	Copy of valid registration certificate of system integrator in CREDA for FY 2020-21		
4	List and Performance Certificate issued by Govt./Govt. Undertaking for Supply of minimum 10 Solar Mother Care cum Maternity Kit by the Bidder, in case of startup companies of Chhattisgarh list and Performance Certificate issued by Govt./Govt. Undertaking for Supply of minimum 02 Solar Mother Care cum Maternity Kit by the bidder.		
5	Balance Sheets of last three financial years certified by a registered Chartered Accountant showing positive net worth and minimum aggregate turnover of 5 Crore in SPV Projects. (Startup companies are exempted from this condition)		
6	Copy of certificate for Last three years turnover of works done regarding SPV Projects		
7	The original document duly signed & sealed on each page, as a confirmation of acceptance of Terms & Conditions (T&C)		
8	Declaration of the supplier about any relatives working with CREDA		

Details of EMD & Bid Document Fee Attached

S. No.	Description
1	Earnest Money Deposit - Earnest Money Deposit of ₹ 5.00 lac /- (₹ 1.00 lac/- for Start-up/New Entrepreneur bidders), submitted in the form of Demand Draft/ NEFT/RTGS, drawn on Bank, Branch, bearing DD/BC No..... dated.....is attached herewith.
2	Bid Document Fee - Bid Document Fee of ₹ 5900.00 /-, submitted in the form of Demand Draft/ NEFT/RTGS, drawn on Bank, Branch, bearing DD/BC No..... dated.....is attached herewith.

The Bank details for the above mentioned payment is as under:

Account Holder	Chhattisgarh State Renewable Energy Development Agency (CREDA)
Bank Name	ICICI Bank, Raipur
Account Number	134601000400
IFSC	ICIC0001346

(Sign & Seal of the Manufacturer)

C. UNDERTAKING OF THE BIDDER

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

I/We hereby Bid my rates for the execution of the work for CREDA as specified within the time stipulated in the schedule in accordance with all aspects with the specifications, designs, drawings and instructions with such conditions so far as applicable.

I/We agree to keep the Bid 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 ₹5.00 lakh /- (₹ 1.00 lakh/- for Start-up/ New Entrepreneur bidders) is hereby forwarded as earnest money in the form of crossed demand draft/ NEFT/RTGS payable to CREDA at Raipur (C.G.). If I/We, fail to commence or complete the sanction 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 Bid 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 Bid 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/Government.

I/We shall a Bid 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 registration No. is _____ registration No.
_____. 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:

Signature

Place:

Name of Bidder with seal

Witness

Signature:

Name:

Postal Address:

D. General Information about this Bid

S. No.	Particulars	Details
1	E-Bid No.	E-BID DOCUMENT No. 11818/CREDA/BID/SMK /2020, Date 04-12-2020.
2	Particulars of the work	Design & supply of Solar Mother Care cum Maternity Kit with five years comprehensive unconditional warrantee.
3	Time Period for completion of the work	Within 03 Months from the date of allocation of Work.
4	Mode of submission of Bids	Technical Bid – Off Line Price Bid – E Bidding through http://www.cspc.co.in website.
5	Last date and time for submission of Sample for Inspection (Offline).	Till 02:00 PM Date 15-12-2020.
6	Last date and time for submission of Technical Bid (Offline).	Till 05:00PM Date 28-12-2020..
7	Last date and time for submission of e-price bid (Online)	Till 05:00 PM Date 28-12-2020..
8	Date and time of opening of Technical Bid	From 11:00 AM Date 29-12-2020.
09	Date and time of opening of e-Price Bid	After declaration of eligible bidders on Date 29-12-2020 or on next date.
10	Place of opening Bid	At Office of Chief Engineer (RE – II), Head Office, CREDA.

INSTRUCTIONS FOR BIDDERS

1. Eligibility Criteria:-

- 1.1 Bidder should have a valid registration certificate as system integrator in CREDA in SPV Programme for FY 2020-21.
- 1.2 Bidder should have their own office cum service center with proper facilities and staff in the state of Chhattisgarh.
- 1.3 Bidder shall have direct experience of supply of minimum 10 Solar Mother Care cum Maternity Kit, whereas start-up/New Entrepreneur companies of Chhattisgarh shall have direct experience of supply of minimum 02 Solar Mother Care cum Maternity Kit; a list and Performance Certificate issued by Govt./Govt. Undertaking shall be mandatory to submit as a proof for the same.
- 1.4 Bidder should have to submit a sample of Solar Mother Care cum Maternity Kit at the office of Chief Engineer, CREDA on 15-12-2020.
- 1.5 Bidder must have a positive net worth as on 31-03-2019.
- 1.6 Bidders **must** have an Aggregate Turnover of minimum 5 Crore in SPV Projects of last three consecutive Financial Years ending on 31st March of each FY i.e. FY 2016-17, FY 2017-18, FY 2018-19/2019-20.
- 1.7 Bidder will have to submit audited copy of balance sheet certified by a registered chartered accountant as a proof for point no. 1.5 and 1.6.
- 1.8 The Bidder should have valid GST registration certificate. A copy of which should be enclosed
- 1.9 Authorization of person representing Bidder from Director / Proprietor / Partner of the Firm/ Company of the Bidder.
- 1.10 Bidders who are **Debarred/Blacklisted** by CREDA or any other Govt. Agency/ Department / UT, **will not be allowed** to participate in this Bid. System integrator whose registration has been suspended by CREDA due to bad performance or other reasons shall not be eligible to participate in the Bid.
- 1.11 Bidders who have any litigation pending in any court with CREDA on the date of opening of the Bid shall not be eligible for this Bid.
- 1.12 Any information/data submitted/rendered by the applicant/Bidder if found false/forged/wrong would entitle CREDA to reject/cancel the Bid submitted by Bidder.
- 1.13 For Start-up/New Entrepreneur Companies/Firms-startup Companies/MSME's registered subjected to their meeting all the specifications and terms/conditions (except full experience, full EMD and Turnover) in area of Solar PV Modules/Health care equipments/or PV system integrator, if it produces certificate of being the startup Entities/ MSME's issued by Govt. of India or Govt. of Chhattisgarh shall be treated as per norms of CREDA.

2. Joint venture/ Consortium will not be allowed in this Tender.

3. **Bidding Process:** for ease of accessing the e-bidding website and registration the following is to be done by bidder:
- A. Visit <http://www.cspc.co.in>
 - B. Click on e-bidding button on right hand side of the page.
 - C. The user will be directed to e-bidding page where all information regarding registration is available along with helpline details.
 - D. Price Bid shall be submitted online only at <http://www.cspc.co.in> however technical bid & samples will have to be submitted in hard copy. Bid Documents (including Technical Bid) must reach at the CREDA, Head Office, Near Energy Education Park VIP Road, Raipur at the time & date mentioned in NIT of E-bid document. Bids submitted after scheduled time and date shall not be considered.
 - E. Start-up/New Entrepreneur bidders will not need to submit the price bid, if they submit the price bid, their quoted rates will not be considered for evaluation of bid.
4. **Document Fee, EMD, Technical Bid** should be submitted for examination before **05:00 PM dated 28-12-2020** at the Office of Chief Engineer, CREDA, Near Energy Education Park, VIP Road, Raipur, whereas Samples along with Components of Solar Mother Care cum Maternity Kit should be submitted for examination before **02:00 PM dated 15-12-2020** at Office of Chief Engineer, CREDA, Near Energy Education Park, VIP Road, Raipur. Samples will be examined by Technical Committee of CREDA on **15-12-2020** whereas technical bids will be examine by Tender committee of CREDA by **29-12-2020** and Bidders will be shortlisted on the basis of approval of the technical bids and samples for opening of price bids. Documents should be submitted in prescribed manner in separate envelopes as follows- (A) Tender Fees and EMD, (B) Eligibility Documents as per point 1.1 to 1.13 mentioned above. (C) Technical Details of their product samples being submitted. (D) Complete tender document in original duly signed by authorized signatory on each & every page of the tender document.
5. Each envelope must be clearly marked as Envelope-(A) Tender Fees and EMD, Envelope-(B) Eligibility Documents, Envelope-(C) Technical Details of Samples and Envelope-(D) Original Tender Document.
6. The Specifications of Solar Mother Care cum Maternity Kit should be as per prevailing CREDA norms, as Specified in the tender.
7. If any amendments are issued by CREDA in due course of time, in this context, then those shall be applicable under this tender.
8. Bidder shall have to submit copies of GST registration number and PAN numbers issued by the appropriate authority.
9. The bidder shall submit along with bid document copy of Certificate of Positive Net worth.
10. The documentary evidence for meeting the eligibility criteria must mandatorily be submitted along with tender in prescribed manner as mentioned earlier.
11. Each offered solar module should have **RFID & I-V curve** measured with a reputed sun simulator with record of suitable calibration reference, NOCT test etc as per guidelines of MNRE.

12. Technical Bid must be deposited in the tender box only kept in the office of the Chief Engineer, CREDA, H.O., Raipur before **05:00 PM dated 28-12-2020** nobody is authorized to receive or grant receipt for tender delivered on behalf of CREDA. Tender received through any other means shall not be considered.
13. Bidder should quote their rates considering variation of site conditions, variation in price of different components and keeping the quantum and quality of work in mind. If CREDA anticipates that rate is abnormally low or high, CREDA shall have liberty to amend the rates or reject the tender.
14. Bidder must provide vendor certificate along with sub contract agreement of the subcontracting agencies which will carry out the work once allotted to the said bidder.
15. Once the name of the vendors for different components is mentioned in the tender by the system integrator, then the system integrator will not be allowed to change the vendor in any case. If any system integrator has mentioned more than one vendor for same component then such system integrator has to submit more than one sample.
16. Bidder will have to provide certified copies of bill of materials, if required by CREDA.
17. **VALIDITY:**

Full descriptive particulars and complete specifications should accompany the offer. Offers should be kept open for acceptance for at least **one year from the date of award. After finalization of this tender the approved rates shall be valid till one year from the date of award; however CREDA shall have liberty to increase or decrease this validity if needed.**
18. The terms, conditions and specifications mentioned in tender document shall be binding on the Bidders and no condition or stipulation contrary to the conditions shall be acceptable. It may please be noted that the Bidders who do not accept terms and conditions stipulated in this tender documents, their offers shall be liable to be rejected out-rightly without assigning any reason whatsoever.
19. Each page of tender document & enclosures shall be signed by the Bidder and seal affixed. All the pages of the documents issued must be submitted along with the technical offer. In case of any corrections / alterations in the tender, the Bidder should attest the same; otherwise tenders may not be considered.
20. Bidders are also instructed to submit their tenders in properly arranged manner (with index, proper paging and with flags on important documents). Incomplete, loose, conditional or improper arranged tenders will not be accepted.
21. CREDA reserves the right (i) to reject or accept any or all tenders wholly or partly without assigning any reason on the grounds considered advantageous to CREDA, whether it is the lowest tender or not and (ii) to split the quantities against the tender further for the same items/work. No reason will be assigned by CREDA for this and will be binding on the Bidders. Due to large quantum of work & limitation of the time period for completion of the work CREDA may take consent from other Bidders if they agree to work on rates

standardized by CREDA. CREDA may undergo agreement with those eligible Bidders who give consent to work on rates standardized by CREDA and may allocate work to them. Rates approved through this tender may be standardized for all eligible tenders to work in year 2020-21 and shall be valid upto one year from date of agreement. However CREDA reserves right to curtail or extend this period.

22. Offers through Telegraph/Fax/Emails/Post/Courier or open offers etc. received shall be summarily rejected.

14. BID DOCUMENT FEE AND EARNEST MONEY:

15. Each bidder should submit Bid Document Fee and earnest money Rs. 5.00 Lac (for start-up/New Entrepreneur bidders EMD shall be 1.00 lac) participating in bid in the form of Demand Draft or RTGS/NEFT as mentioned in the NIT of "BID document NO. 11818/CREDA/E-BID/SMK /2020, Date 04-12-2020, in a separate envelope else they will summarily be rejected and returned. Bid Document Fee, EMD submitted in any other form e.g. Cash/Bank Guarantee etc shall not be accepted. [Exemption from EMD shall be given only to those SSI units of Chhattisgarh State who submit the competency certificate on which it should be clearly mentioned that, "the company registered in Chhattisgarh for manufacturing of that particular product"]. **CREDA Competency Certificate will not be considered as EMD for this Rate Contract Bid.**

16. SUBMISSION /DISPLAY OF SAMPLES FOR EXAMINATION & PRE-BID Queries:

Bidders will have to provide samples of Solar Mother Care cum Maternity Kit should be submitted for examination before **02:00 PM dated 14-12-2020** at Office of Chief Engineer, CREDA, RE-02, Near Energy Education Park, VIP Road, Raipur. These samples shall be examined by Technical Committee of CREDA.

17. Pre-bid meeting shall be organized on **14-12-2020** at 12:00 Noon at Office of Chief Engineer, CREDA, Near Energy Education Park, VIP Road, Raipur to explain the terms & conditions of the tender and to clarify doubts of the Bidders so that all doubts and confusions are resolved before the tender is submitted. Only one authorized representative of the parties who fulfils the primary eligibility conditions as mentioned in NIT and desire to purchase/download the tender document shall be allowed to participate in the said meeting. Amendments/clarifications, if any arising during pre-bid meet, shall be uploaded on **www.creda.co.in**.

18. All suggestions, doubts, confusion, request, queries etc., shall have to be presented to CREDA during pre bid meeting only. After that any representation in this regard shall not be considered.

19. TECHNICAL CRITERIA :

- 1) The eligible SI should have their own service unit cum office in Chhattisgarh state.
- 2) The Bidders should have sufficient technically qualified and well-experienced manpower for execution of the project and after sales service of the systems. These details may be called by CREDA and in case there is any deficiency found the SI may be debarred.

20. **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 on their quoted rates and also fails to execute assigned works within stipulations, if he is so communicated within the validity period of the offer, the full amount of earnest money shall be forfeited and Bidder will be debarred from future business with CREDA. CREDA's decision in this respect will be final and binding on the Bidder.

23. **PRICE OF SUPPLY OF SOLAR MOTHER CARE CUM MATERNITY KIT:**

- (I) The prices quoted for design, manufacturing & supply of Solar Mother Care cum Maternity Kit should be firm and F.O.R. destination inclusive of packing, forwarding freight, transit insurance, Comprehensive Unconditional Warrantee for five years,. The GST shall be indicated extra as per the GST regulation. The prices shall be filled exactly as per e-Price Bid enclosed.
- (II) Any change in GST shall be become applicable during the period of contract.
- (III) Price will be submitted online by e-bidding as per clause-3.

21. **ENGINEERING DOCUMENT & TEST CERTIFICATE:**

Bidders will have to submit Engineering Documents with technical details, Specifications of components and make etc. to CREDA for approval, as and when asked by CREDA. Solar Mother Care cum Maternity Kit may only be supplied out only after approval of the samples.

22. **SAMPLES:**

If Require CREDA may inspect the consignment before dispatch of the material at shall be delivered/ accepted as per the scope of work and specifications, as get it tested in accreted laboratory at its own cost.

23. **INSPECTIONS :**

CREDA reserves right to inspect the material at Godowns/Temporary Stores before dispatch and also at works sites.

24. **TAX OBLIGATIONS:**

TDS for Income Tax, GST, Civil Work etc shall be recovered under various acts and deposited with the appropriate authority. Eligible Bidder will have to submit break up of cost and taxes before execution of agreement with CREDA, so as to ensure tax deposition as per Govt. Rules accordingly. .

25. **JURISDICTION OF THE COURT:**

Any dispute arising out of the contract shall be subject to the jurisdiction of Hon'ble High Court of Chhattisgarh.

G. GENERAL CONDITIONS OF CONTRACT

1. **DEFINITIONS:** In writing General Conditions of Contract, the specifications and bill of quantity, the following words 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.
 - ✓ Work shall mean any work entrusted to the Bidder as mentioned in the scope of work and sanction order.
 - ✓ The "Engineer in charge" shall mean the Engineer or Engineers authorized by CEO, CREDA for the purpose of this contract. Inspecting Authority shall mean any Engineering person or personnel authorized by CREDA to supervise and inspect the erection of the SPV System.
 - ✓ "The Eligible SI/Bidder" shall mean the 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 the 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 eligible SI/Contractor from time to time, 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 written by hand.
2. Those Bidders who are also manufacturers of an important component of Medical Equipment of Solar Mother Care cum Maternity Kit shall have to submit proof of their factory, SSI Registration and list of Machineries and Equipment's.
3. **CONTRACT DOCUMENT:**

The term "Contract" shall mean and include the General conditions, specifications, schedules, drawings, sanction 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 or any other Act in vogue or by any person of common knowledge and prudence.
4. **MANNER OF EXECUTION:**

Execution of work shall be carried out under Govt. Mode Scheme of CREDA in an approved manner as outlined in the technical specifications or where not outlined, in accordance with desired Specifications laid down by CREDA, to the reasonable satisfaction of the Engineer. The successful bidder shall be provided a period of 45

days from the date of issuance of supply order for the supply of Solar Mother Care cum Maternity Kit to the ordered sites.

5. VARIATIONS, ADDITIONS & OMISSIONS:

CREDA shall have the right to alter, amend, omit, split or otherwise vary the quantum of work, by notice in writing to the SI/Contractor. The eligible SI/Contractor shall carry out such variation in accordance with the rates specified in the contract so far as they may apply and where such rates are not available; those will be mutually agreed between CREDA and the eligible SI/Contractor.

6. INSPECTION:

- A. The Engineer in Charge or his authorized representative (s) shall be entitled at all reasonable times to inspect and supervise and test during supply. Such inspection will not relieve the eligible SI from their obligations under this contract.
- B. Material can be inspected before dispatch or in transit by the authorized representatives of CREDA at the factory at the cost of the eligible SI, if desired by CREDA.

7. COMPLETION OF WORK:

Time being the essence of contract, the Design, manufacturing & supply of the Solar Mother Care cum Maternity Kit shall be completed within the time schedule prescribed in the Work order. The SI must complete **the** allocated works within **45 days** from the date of LOI/WO, excluding rainy season.

8. ELIGIBLE SIs DEFAULT LIABILITY:

CREDA may by written notice of default to the eligible SI/Contractor, terminate the contract in circumstances detailed hereunder:

- (a) If in the opinion of the CREDA, the eligible SI/Contractor fails to complete the work within the time specified in the sanction order or within the period for which extension has been granted by CREDA to the eligible SI/Contractor.
- (b) If in the opinion of CREDA, the eligible SI/Contractor fails to comply with any of the provisions of this contract.
- (c) In the event of CREDA terminating the contract in whole or in part as provided in paragraph (a) above, CREDA reserves the right to engage another eligible SI/Contractor or agency upon such terms and in such a manner as it may deem appropriate and the eligible SI/Contractor shall be liable to CREDA for any additional costs or any losses caused to CREDA as may be required for the completion of erection of the Solar Mother Care cum Maternity Kit and or for penalty as defined under this Bid document until such reasonable time as may be required for the final completion of the work.
- (d) In the event CREDA does not terminate the contract as provided in paragraph (a) the eligible SI/Contractor shall continue performance of the contract, in which case he shall be liable to CREDA for penalty for delay as set out in this Bid document until the work is completed.

9. FORCE MAJEURE:

The eligible SI shall not be liable for any penalty for delay or for failure to perform the contract for reasons of FORCE MAJEURE such as of God, acts of public, enemy, LWE problems, acts of government, cyclone, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes provided that if SI shall submit delay notice with appropriate cause of delay to the CREDA in writing within **15 days** of force majeure. CREDA shall verify the facts and may grant such extension as facts justify. Delay in supply of any accessories of Solar Mother Care cum Maternity Kit etc. by the related vendors, to whom the Bidder has placed order, shall also not be treated as force majeure.

10. REJECTION OF WORKS:

In the event of any of the material supplied by the eligible tenderer is found defective in material or workman ship or otherwise not in conformity with the requirements of this contract specifications, CREDA may impose penalty for such rejection upto the **200%** cost of the entire system. Habitual/repeated offenders shall be blacklisted/debarred to participate in the any tender/activity of CREDA till further orders. The eligible tenderer on receipt of such notices shall rectify or replace the defective material and rectify the work free of cost. If the eligible tenderer 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 eligible tenderer plus **3%** service charges of the cost of such rectification, from the eligible tenderer and/ or terminate the contract for balance 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 eligible tenderer shall be liable for any loss/ damage sustained by CREDA due to defective supply with enforcement of penalty as stated above.

11. EXTENSION OF THE TIME:

If the completion of installation is delayed due to any reason beyond the control of the eligible SI, the eligible SI shall without delay give notice to the CREDA in writing of his claim for an extension of time. CREDA on receipt of such notice may agree to extend the contract/delivery date of the Solar System as may be reasonable but without prejudice to other terms and conditions of the contract.

12. MAKES OF EQUIPMENTS TO BE USED IN THE WORK:

(I) MAKES OF EQUIPMENTS TO BE USED IN THE WORK:

- a. The eligible SI has to ensure that equipment's as per Technical Requirements of guidelines of CREDA as complied with. The eligible SI also has to ensure that he will use only components of approved vendors/make of CREDA/IMA. The material/works for which CREDA/MNRE or BSI or ISI specification is not available, engineer-in-charge of the works will examine and approve the material/works, preferably of all makes on which CREDA has report of satisfactory performance. Test certificates for all major equipment's should be submitted to the engineer-in-charge of the works before supply of the same.

- (II) Successful Bidder upon issue of LOI/ Work Order must submit Manufacture Authorization Form (MAF) From manufacture of component of Solar Mother Care cum Maternity Kit which it is intending to use during supply guarantee, at least five year unconditional warrantee of entire Solar Mother Care cum Maternity Kit, at least 10 year warrantee on module, before supply of Solar Mother Care cum Maternity Kit, **no payment shall be made if he fails to do so.**

13. WARRANTEE PERIOD AND POST INSTALLATION SERVICES:

- The work done/ material supplied by the eligible SI/Contractor should be warranted for satisfactory operation and against any defect in material and workmanship including Solar Mother Care cum Maternity Kit, module, battery etc. and other balance of equipments, at least for a period of 5(five) years, from the date of Supply of the Solar Mother Care cum Maternity Kit including other works as per scope of work. For fetal heart rate monitor, LED Lamps, Universal cell phone charger, DC power outlets & other equipments of Solar Mother Care cum Maternity Kit warrantee shall be two year only from the date of supply.
- The PV modules must be warranted for 5 Years from the date of supply of KIT. The above warrantee certificates shall be furnished to the CREDA for approval. Any defect noticed during this period should be rectified by the supplier free of cost upon written notice from CREDA provided such defects may be due to bad workmanship or bad materials used.
- The warrantee period shall be extended by the period during which the plant remains non-operative due to reasons within control of the eligible SIs.
- This warrantee must be an unconditional onsite warrantee and the eligible SI/Contractor will have to replace the defective material within 7days positively from the date of information given to him.
- Care should necessarily be taken to make the Solar Mother Care cum Maternity Kit operational, once the reporting of the fault/non operational status is done, within a week. If the Solar Mother Care cum Maternity Kit is not made operational within 7 days CREDA may rectify the same at the cost of SI, and the warrantee period shall be extended for a month for the same.
- This warrantee must be an unconditional warrantee and the eligible SI/Contractor will have to replace the defective material within 7 days positively from the date of information given to him.
- System Integrators shall have to establish their service stations in the allocated area and shall have to keep sufficient quantity of spares and man power to ensure proper service network for taking care of smooth functioning of Solar Mother Care cum Maternity Kit supplied by them. SI/Contractor shall have to give a toll free number to register complaints.

TERMS OF PAYMENT:

The following terms of payment shall apply for the Bid: -

- a) 95% of the eligible payments as per the work order after satisfactory completion & performance test of Solar Mother Care cum Maternity Kit at site with proper handing over.
- b) Balance 5% of the eligible payment shall be retained by CREDA as Security Deposit for a period of five years (60 months) of functionality period.
- c) GST shall be paid extra as applicable on the date of billing.

14. PENALTY FOR DELAY IN COMPLETION OF CONTRACT:

If the eligible SI fails to complete the assigned work within the schedule time specified in the sanction order or any extension granted there to, CREDA will recover from the SI as penalty a sum of **One per cent (1%)** of the system price for every delayed system per month. For this purpose, the date of taking over shall be reckoned as the date of completion. The total penalty shall not exceed **5% (Five Per cent)** of the cost.

Review of the progress of supply of Solar Mother Care cum Maternity Kit allocated to SIs shall be done time to time by CREDA and if the progress of installation is found unsatisfactory, the allocation of entire remaining uninstalled Systems or their part of can be re-allocated to other SI as per discretion of CREDA.

SECURITY DEPOSIT (SD):

- The Earnest Money shall be retained by CREDA as additional SD for 24 months after agreement is done to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be required by CREDA.
- Beside this 5% of the cost shall also be retained as SD during the 24 months of warrantee period. In case the Security Deposit is in form of a Bank Guarantee/TDR from any scheduled bank and in the event of extension of completion date, the validity of the Bank Guarantee/TDR shall also be suitably extended. The Bank Guarantee shall be executed in stamp paper worth Rs.250.00 or as per the prevailing norms. No interest shall be payable on the Security Deposit.

15. **INSURANCE:** The eligible SI/Contractor shall arrange insurance coverage for the materials and Solar Mother Care cum Maternity Kit at his/ beneficiary's custody for the work under execution and successful commissioning and subsequent handover to the beneficiary. The eligible SI/Contractor shall take up insurance or such other measures for the manpower so as to cover the claim for damage arising under workmen's compensation Act and other applicable State/ Central laws. CREDA shall not bear any responsibility on this account.

16. PENALTY DUE FROM THE ELIGIBLE SI :

All cost of damages for which the eligible SI/contractor is liable to the CREDA, will be deducted from any money due to the eligible SI/ Contractor including the Security Deposit.

17. ELIGIBLE SI'S RESPONSIBILITY:

Notwithstanding anything mentioned in the specifications of subsequent approval or acceptance of Solar Mother Care cum Maternity Kit by CREDA, if any, the ultimate responsibility for satisfactory performance of the entrusted work shall rest with the eligible SI/Contractor. If in any case the eligible SI/Contractor does not complete the work as per the work orders issued to them then CREDA may take over the task & complete the project at the cost of eligible SI.

18. RESPONSIBILITY TO RECTIFY THE LOSS AND DAMAGE:

If any loss or damage occurs to the work or any part thereof or materials/plant/equipment's for incorporation therein the period for which the eligible SI is responsible for the cause thereof or from any cause whatsoever, the eligible SI shall at his own cost rectify/replace such loss or damage, so that the permanent work confirms in every respect with the provision of the contract to the satisfaction of the Engineer. The eligible SI shall also be liable for any loss or damage to the work/equipment's occasioned by him in course of any operation carried out to him during performing the contract.

19. RESPONSIBILITY TOWARDS THE WORKMAN OR OUT SIDERS:

- The eligible SI shall ensure all safety measures during execution and repairs of the work. CREDA, will, in no case be responsible for any accident fatal or non-fatal, caused to any workman or outsider in course of transport or execution or repairs of work.
- All the expenditure including treatment or compensation will be entirely borne by the eligible SIs. The eligible SI shall also be responsible for any claims of the workers including PF, Gratuity, ESI & other legal obligations.

20. NON-ASSIGNMENTS:

The eligible SI shall not assign or transfer the sanction orders issued as per this contract or any part thereof without the prior approval of CREDA. **If eligible SI transfer / assigned / sublet full or any part of work allocated to him without prior permission from CREDA in writing to any third party shall be liable to debar/black listed from any Tender/Activity of CREDA till further orders.**

21. CERTIFICATES NOT TO AFFECT RIGHTS OF CREDA:

The issuance of any certificate by CREDA or any extension of time granted by CREDA shall not prejudice the rights of CREDA in terms of the contract nor shall they relieve the eligible SI/Contractor of his obligations for due performance of the contract.

22. SETTLEMENT OF DISPUTES THROUGH ARBITRATION:

- i. Except as otherwise specifically provided in the contract, all disputes concerning questions of fact arising under the contract shall be decided by the Chief Executive Officer (CEO), CREDA provided a written appeal by the eligible SI/Contractor is made to CREDA. The decision of the CEO, CREDA shall be final and binding to the all concerns.
- ii. Any dispute or difference including those considered as such by only of the parties arising out of or in connection with the contract shall be to the extent possible be settled amicably between the parties. If amicable settlement cannot be reached then all disputed issues shall be settled by arbitration.

23. LAWS GOVERNING CONTRACT:

The contract shall be constituted according to and subject to the Laws of India and jurisdiction of the High Court of Bilaspur, Chhattisgarh.

Compliance with Labour Regulations-During continuance of contract, the contractor shall abide at all times by all applicable existing labour enactment and rules made there under, regulations, notifications and bye laws of state and central Govt or local authority that may be passed/issued or may be issued.

24. LANGUAGE AND MEASURES:

All documents pertaining to the Contract including specifications, schedules, notice correspondences, operating and maintenance instructions, drawings or any other writings shall be written in English / Hindi language. The metric system of measurement shall be used in this contract.

25. CORRESPONDENCE:

- i. Any notice to the eligible SI/Contractor under the terms of the contract shall be served by registered mail to the registered office of the eligible SI/Contractor or by hand to the authorized local representative of the eligible SI/Contractor and copy by post to the eligible SI's principal place of business.
- ii. Any notice to CREDA shall be served to the CEO, CREDA, Raipur in the same manner.

26. SECURITY:

The eligible SI/Contractor shall treat the details of the specifications and other documents as private and confidential and they shall not be reproduced without written authorization from CREDA.

27. CREDA reserves all right to change/ amend any condition of the Bid or accept/reject any or all bids in full/part without assigning any reasons whatsoever.

28. CREDA reserves all rights to increase or decrease quantum of works to be allocated to bidders if required without assigning any reason.

29. In case of non-compliance of any terms and conditions by bidder, CREDA, may discontinue the contract if required and may forfeit the EMD.

30. Bidder shall have to use best quality (as per WHO/ Indian Medical Standards) medical equipments in the kit, if found that any of the material/ equipment is below the standard quality, entire kit will be treated as rejected.

31. In case, the eligible bidders shall not complete the allocated works within time limit, CREDA will have discretionary power to cancel and award the work to any other experienced SI/ Contractor also as and when required.

32. AGREEMENT:

The successful eligible SI shall have to enter into an agreement with the CREDA in the approved contract agreement form within **07 days** of the receipt of call from CREDA.

33. BID EVALUATION CRITERIA

- a. Offer of only those parties who are found qualifying based on Technical Evaluation Criteria will be taken into further consideration and prices of only those parties qualifying based of these criterion will be opened.
- b. Bids shall be evaluated on the basis of lowest total supply rates without GST.
- c. CREDA retains right to negotiate rates with L-1 Bidder.

- d. L-1 Rates/rates approved by CREDA will be considered as the final rates of the project.
- e. Conditional Bids shall not be accepted.
- f. However CREDA shall have rights and liberty to call any /other parties to work on approved rates as and when required in accordance with quantum of work and scheduled time limits for completion of targets.
- g. Start-up/New Entrepreneur bidders will not need to submit the price bid, if they submit the price bid, their quoted rates will not be considered for evaluation of bid.

34.ALLOCATION OF TARGETS AND AREA OF WORK

- (a) Initially all the eligible SI will be awarded with equal nos of work. However further allocations shall be made on the basis of their performance subsequently.
- (b) CREDA reserves all rights for allocation of works anywhere in Chhattisgarh.
- (c) Review of the progress of Supply of SOLAR MOTHER CARE CUM MATERNITY KIT allocated to SIs shall be done time to time by CREDA and if the progress of installation is found unsatisfactory, the allocation of entire remaining uninstalled Systems or their part of can be re-allocated to other SI as per discretion of CREDA.
- (d) Allocation for start-up/New Entrepreneur bidder may be maximum 1% of the work on L-1 rates.

We (on behalf of Eligible SI/Bidder) have read all the above stated details & accept to comply with it in total.

(Name, Signature & Seal of the Bidder)

SCOPE OF WORK

1. Designing, and supply of Solar Mother Care cum Maternity Kit anywhere in Chhattisgarh State in accordance to the design and specifications approved by CREDA, with warrantee norms as mentioned in section "WARRANTEE PERIOD AND POST INSTALLATION SERVICES" on page no. 16 of the bid document on turnkey basis. Bidder shall have to take approval of the sample from CREDA prior to supply. Five years warrantee shall be required after proper handing over. The scope of work shall also includes the followings :-
 - Detailed planning of time bound smooth execution of project.
 - Design, Preparation & supply of Solar Mother Care cum Maternity Kit as per design and specifications approved by CREDA.
 - Providing User Manuals and Warrantee Cards to beneficiary / CREDA.
 - SI shall have to submit JCCs within 15 days of supply of Solar Mother Care cum Maternity Kit in concerned District/REGIONAL Offices of CREDA.
 - Performance testing of the complete system.
 - Onsite Warranty of the system for Five year faultless operation, assure inventory for maintenance.
 - Providing Prompt Service Facilities to customers/ beneficiaries.
 - Risk liability of all personnel associated with implementation and realization of the project.
 - Training of at least two persons nominated by user, on the various aspects of design and maintenance of the offered system after commissioning of the system at block level under the supervision of CREDA and competent health professional of the area.
 - During the aforesaid training distribution of user manuals shall be conducted. Training must ensure that beneficiary can comfortably understand the contents of user manual
 - The eligible SI shall maintain sufficient inventory of the spares to ensure that the system can be made functional within forty eight hours from the communication of breakdown of the system during currency of the warrantee period.
 - The contractor shall run the system on trial basis and shall closely monitor the performance of the system before handing over the system, so that the assured annual power generation can be estimated for monitoring of the performance of the system. CREDA shall examine the data of generation and ascertain if the generation is adequate with reference to the capacity of the Solar Systems.
 - Performance Guarantee Test: Successful performance guarantee test to demonstrate the rated capacity of Solar Mother Care cum Maternity Kit as per CREDA's norms shall have to be conducted by SI in presence of representatives of CREDA, if required.
 - Health Care kits arranged in kit case will not be accented. It should be photo type moulded cabinet/case/bag and all instruments shall be properly arranged and fitted accordingly.

H. Technical Specifications of Solar Mother Care cum Maternity Kit

Solar Mother Care cum Maternity Kit case should contained to Two Part One is Medical Equipment kitcase and second is Solar Home lighting system. Medical Equipment kitcase should be a portable and self-contained system that provides high efficiency lighting and 12V DC electricity. Solar Home Light System will be installed permanently either in Health Centre of the village or if Health Centre is not available at particular village, then it will be installed in resident of concern Health worker/ ANM/MPW.

Detail of Solar Mother Care cum Maternity kit system technical specification are as below :-

A- Solar Home Light System Technical Specification:-

1. SPV Module :-

The PV module should have crystalline silicon solar cells and must have a certificate of testing conforming to IEC 61215 Edition II / BIS 14286 from an NABL or IECQ accredited Laboratory. The capacity should be minimum 200 Wp Multi/Mono Crystalline/MNRE approved solar modules having 24 V nominal voltage with **minimum 15% Module Efficiency**. The modules should be tested and certified by a Govt. of India authorized test centers or should conform to relevant IEC standard as per MNRE guidelines. Offered module shall have a power discharge warranty of 90% of the rated power for 10 years. The rated discharge power and Efficiency of any supplied module shall not be less than the specified power rating and Efficiency of the modules, in any case. Every module should have suitable by-pass diode at its terminal box. The SPV Modules must be installed in such a way so as to deliver proper voltage and current to ensure desired power discharge as per specifications of CREDA for the size of SPVPP ordered. Indigenously manufactured PV module should only be used. The terminal box on the module should have a provision for opening it for replacing the cable, if required.

2. Battery Specifications Lithium Iron Phosphate Batteries (LFP) :-

The battery should be of minimum rating of 12.8V, 80Ah with minimum individual cell capacity of 3.2 V, 20 Ah. Battery Specifications will be as follows-

S. No	Description/ Item	Specifications	Remarks
A	Battery Configuration	12.8 V - 80 Ah	LiFePo4
B	Capacity of individual Cell	3.2 V - 20 Ah	
C	Type of Cell	Cylindrical or Prismatic	
1	Nominal Capacity	80 Ah	
2	Nominal Voltage	12.8 V	
3	Voltage Range	10V V ~14.6 V ±0.2V	
4	Total Energy	1024 Wh	
5	Configuration	4S 4P	Maximum four parallel
6	Charging Current	10 A	Rated Charge Current
		20A	Maximum Charge current
7	Discharging Current	10 A	Rated Discharge current
		15A	Maximum discharge current
8	Discharge Cut-off Voltage	10V	
9	Charging Time	Around 4~5 Hours	Rated Charge
10	Weight	10kg +_ 2 Kg	Approx.

11	Cycle life	≥ 2500 Cycles	The cycle life is defined as the number of complete charge/ discharge cycles that the battery is able to support before that is capacity falls under 80 % of its original capacity; cycle life derived at 25 °C
12	Working Temperature Range	-20 0 C ~ 60 0 C; humidity ≤ 85%	While Discharging
		0 0C ~ 50 0 C ; humidity ≤ 85 %	While Charging
13	Storage temperature Range	0 0C ~ 45 0 C ;	1 Months
		0 0C ~ 35 0 C ;	1-3 Months
		0 0C ~ 25 0 C ;	3-12 Months

PCM Details

S. No.	Description	Parameters
1	Standard Charge/ Discharge Current	10 A
2	Max. Charge Current	20 A
3	Over Charge cut off	14.6V
4	Deep Discharge Cut off	10 V

- (i) The battery and CCU or other electronic components should be placed in an IP 21 (Certificate Needed) enclosure in a cabinet suitable for indoor applications with the arrangements to protect circuits from insects. Also provision for Charging from Module and load out put for Fan, TV, Luminaries. The charging unit should have two indication – Green for charging and Red for fault , Fuse, ON/OFF switch and mobile charging port.(as per drawing) A plastic stand should also to be provided for this cabinet box.
- (ii) Cells should conform to latest BIS/International Standards.BIS/ IEC/UN and CE certified cells should only be used.
- (iii) Cells should have safety vent cap for releasing of excess internal cell pressure.
- (iv) The max charge current should be 20 A.
- (v) SMBUS or MODBUS is not mandatory for systems.
- (vi) Solar Charge Controller should be a MPPT type Charge controller with IEC Standards for design and environmental parameters, and should be in accordance with the charging parameters of LFP Batteries.

3. SOLAR CHARGE CONTROLLER UNIT

Charge Controller Type	Microprocessor Based Maximum Power Point Tracking (MPPT)
Charging Type	CC-CV (buck Charging)
BMS Integration	The CCU should be compatible with BMS of LFP Battery
MPPT Solar Charge Controller Rating	12.8V/20A
Charging Current Range at 12.8V	10A~20A
Load Current Rating at 12.8V	15A
Solar Input Power	200Wp with (VOC>28 V) and 24.14V(VMP)
Idle Current (Self Consumption)	<20mA
Efficiency	>90% Solar Charge Controller >85% (Total Electronic Efficiency)

Temperature Compensation	3mV/ oC
Indications	Green -->Charging Under Process Red --> Battery Low
Battery Voltage Settings	High Volt Cut Off Setting - 14.6V ±0.2V Battery Low Load Disconnect - 10.8 V ±0.2V Load Reconnect - 12.8 V ±0.2V
Protections	<ul style="list-style-type: none"> • Transient /Surge • Over Charging / Deep Discharge • Overload - Auto shutdown and restart • Solar and Battery Reverse Protection • Reverse Current from Battery at Night

4. DC fan:-The fan should be Table/ Mini Pedestal fan 15 Watt-12 volt DC operated with following minimum requirement:

- (i) Type of motor: BLDC motor
- (ii) Rated voltage: 12 Volt.
- (iii) Operating Voltage range: 10.8 Volt to 15 Volt.
- (iv) Maximum Current Consumption(at 12V) -1.5 Amp
- (v) Sweep size : 300 mm (diameter) (minimum).
- (vi) Blades: Three leaves [Aluminum Powder Coated/ Acrylonitrile butadiene styrene (ABS)/Polycarbonate (PC) material]
- (vii) Power: 15 Watt (Minimum) RPM: 1100
- (viii) Bearings/oil bushes: As per standard and requirement.
- (ix) Speed : 3 variable speed
- (x) Reverse polarity protection: fan should not work with reverse polarity.
- (xi) Noise must be less than 30DB.
- (xii) Air flow of BLDC Fan should not be less than 120CM/M.
- (xiii) The motor should be tested for its insulation test, temperature rise test, reliability test and noise tests.

5. USB Port:- Max rating – 1A

6. Luminary: Maximum 8 W LED battens per BIS. Max current drawn should not exceed 0.8 Amp

- (i) The lumens output of luminaries should be minimum 80 lumens per watt with permissible standard tolerance maximum 3% as instrumental error.
- (ii) LED shall comply with LM 80 Standards and copy of test certificate should be submitted. The test certificate should be from NABL & MNRE accredited lab authorized for testing of LED luminaries as LM 79 report. The detail specs mentioned in test parameter which required to be tested at MNRE approved lab.**
- (iii) Lighting Design of LED Luminary along with test report from MNRE lab/IES File should be submitted with the sample.**
- (iv) The luminaire manufacturer should have BIS certificate self-declaration confirming to IS 10322(Part-5/Sec-1):2012**

7. TV Socket:- Max rating-3A**BROAD PERFORMANCE SPECIFICATION**

S. No.	Parameters	Specifications
1	Solar Module	Minimum 200 Wp
2	Operating Voltage	12.8V DC
3	Battery	Minimum 80Ah LFP
4	Load	3X8 W (max) LED, 1X15W Fan(BLDC),1 USB Port,1 TV Socket
5	Average Duty Cycle	6Hrs Light, 4Hrs Fan and 2Hrs TV
6	Charge Controller	12 V /20 Amp MPPT Micro Processor Based Charge Controller. The enclosure for CCU and Battery assembled should be thermoplastic grade Plastic Type that can withstand the Battery's weight / Powder coated MS box (18 SWG) having provision for Charging from Module and load out put for Fan, TV, Luminaries (for both type).The charging unit should have all indication, Fuse, Hanging switch in luminary and mobile charging port.

B- Medical Equipment Kitcase:-**High Efficiency Lights**

Two high-efficiency rugged LED lights (5W) have a color rendering capacity optimized for medical use. The lights connect to the kitcase via the light connector interface. The lights included in the solar kitcase run on 12 Volts DC and are designed by CREDA to withstand exposure to heat, moisture, and dirt.

Specifications

Power: 5W

Color Temperature: 5000K

CRI: 85 (Ra)

Life Expectancy: >50,000 hours

Accessories Included

- Head lamp (Quantity 2) – Included Adjustable headlamps are equipped with powerful LED lights and are rechargeable through the USB charger.
- Micro USB Phone Charger – Included The solar kitcase includes both a single charging wire (USB to Micro-USB) and a multi tipped charging wire able to adapt to many different phones. You can also charge phones that have a 12V DC car charger.
- All components of the Solar Mother Care cum Maternity Kit should have a portable fetal Doppler which allows health providers to detect the fetal heart rate. The fetal Doppler runs on rechargeable AA batteries –included – and comes with an AA/AAA battery charger.
- The Solar Mother Care cum Maternity Kit shall have all instruments required for Health Care use mentioned as following :-

S. No	Details	Specification	Nos.
1	Kit Case cum bag	Should be sturdy, weather proof, easy to use	1
2	Power Bank for charging for medical equipments with USB	20000mah Li-Polymer Battery	2
3	Hanging Lamps	5 watt	2
4	Rechargeable LED head Lamps	5 Watt	2
5	AA/AAA battery charger for 04 batteries	PIN and USB type	1
6	Expansion kit for providing an additional light and switch box	-	1
7	AC DC adapter for battery charging	12V/2Amp	1
8	Additional USB port	for 12V equipment charging	2
9	Digital Blood pressure measuring Apparatus with Rechargeable Batteries. (Display of SYS _{mmhg} , DIA _{mmhg} , PULSE _{per min.})	As per IMA/CG Govt. health Dept. Norms	1
10	Digital Glucometer +25 Testing Strips and Lencets.		1
11	Digital Fetal Doppler with Adaptor Rechargeable Batteries		1
12	Digital Infrared Thermometer with Rechargeable Batteries and display of three color back light (Measuring rang- Green for 34 ⁰ C to 37.9 ⁰ C Yellow for 37.2 ⁰ C to 37.9 ⁰ C Red for 38 ⁰ C to 42 ⁰ C)		1
13	Digital Finger Tip Pulse Oxy meter with Rechargeable Batteries (Measuring rang- 30bpm to 250bpm)		1
14	Digital Ultra Thin Weighting Machine with high precision sensor, auto zero auto off & USB charging facility (Measuring rang- 1kg to 150kg)		1
15	Digital HB Meter +25 Testing Strips		1

- Before supply of medical equipment or medical instrument/materials the eligible bidder shall have to give a self declaration that all the items are as per IMA and CG medical health norms and standards.
- Warrantee on LED Lamps, Universal cell phone charger, DC power outlets of Solar Mother Care cum Maternity Kit, Digital Blood pressure measuring Apparatus, Digital Glucometer, Digital Fetal Doppler, Digital Infrared Thermometer, Digital Finger Tip Pulse Oxy meter, Digital Ultra Thin Weighting Machine, Digital HB Meter, Power Bank warrantee shall be two year only from the date of supply.
- Bidder shall have to provide the user manual and pictorial representation of equipment for the use of health supervisor.
- Roughly load/Design calculation for battery bank & module

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 : Yes/No
Chhattisgarh State:
- a) If yes, write registration No. :
- b) Whether documentary evidence
Regarding registration enclosed :
- c) Items for registration :
- d) Period of registration :
- d) Whether latest copy Competency/
Certificate furnished : Yes/No
06. Whether the firm is 100% owned by
- a) State Government : Yes/No
- b) Central Government : Yes/No
- If yes, Notification/certificate issued from : Yes/No
The competent authority to this effect is enclosed
07. a) Whether the bidder is old participant : Yes/No
With CREDA
- b) If yes, whether documentary : Yes/No
Evidence is enclosed.
08. Any other information that bidder may like : If yes, give details
to give in order to highlight his bid

PLACE :

SIGNATURE OF BIDDER

DATE:

NAME IN FULL
DESIGNATION/STATUS
FIRM/COMPANY SEAL

SCHEDULE - I

PART 'B': COMMERCIAL INFORMATION

(Strike off, whichever 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 i / Fully Owned State/Central Govt. Unit : SSI Unit of C.G.
- iv) Reference of documentary evidence regarding exemption enclosed. : Yes/No
02. Whether the offer is valid for 6 months from the date of opening of commercial/technical bid. : Yes/No
03. Rate of Sales Tax 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 : Yes/No
- c) If conditional State condition : Yes/No
05. **PAYMENT TERMS:**
Whether CREDA's terms of payment is acceptable to Bidder : Yes/No
06. **COMPLETION PERIOD OF WORK:**
Whether Bidder is agreeing for completion period of work as Specified in the tender : Yes/No
07. **PENALTY CLAUSE:**
Whether agreeable to CREDA's Penalty Clause : Yes/No
08. Whether agreeable to CREDA's clause of warrantee period : Yes/No
09. **SECURITY DEPOSIT:**
Whether Security Deposit clause is understood : Yes/No
10. Indicate State, Central Sales Tax Registration Number State : Yes/No
Central:
(Please Note that in case of non-registration with Commercial Tax, Department Purchase Tax as admissible shall be deducted by the Purchaser from the Bills of the supplier)
11. Please mention whether rates offered are applicable for part quantities. : Yes/No

PLACE:

SIGNATURE OF BIDDER

DATE:

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

SCHEDULE - II

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
DATE

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

SCHEDULE - III
TECHNICAL DEVIATIONS

From,
Bidder Name & Address -

To,
**The CE,
CREDA, HO,
Raipur**

Sub - Technical Deviations.

Dear Sir,

The technical deviations & variations to the specifications stipulated in the tender, for the item quoted are as under -

S. No.	Condition	Clause No. of Tender document	Page No. of Tender document	Statement of deviations and variations

2. Except aforesaid deviations, the entire order, if placed, on us shall be executed in accordance with your specifications and other conditions. Variation/deviations etc. if found, elsewhere in our offer should not be given any considerations while finalizing the tender.

PLACE

SIGNATURE OF BIDDER

DATE

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

* **NOTE**-Continuation sheet of like size & format may be used as per bidder's requirements and shall be annexed to this schedule.

SCHEDULE - IV

PAST EXPERIENCE

From :

Bidder's Name & Address -

To,

The CE,

CREDA, HO,

Raipur

Sub - Performance/Past Experience.

Dear Sir,

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

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

PLACE

SIGNATURE OF BIDDER

DATE

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.

DRAFT OF AGREEMENT

This agreement made on this day _____ of month _____ (year) 2019 between M/s _____ (NAME OF COMPANY) herein after called as "Contractor" (Which expression shall unless excluded by or repugnant to the context , include its successor Rs ,heir, executors, administrative representative and assignee) through Shri son of Shri, duly authorized by the contractor to sign this agreement on its behalf, of the one part & **Chhattisgarh State Renewable Energy Development Agency, Raipur** hereinafter referred to as the "CREDA", through Shri _____ son of Shri _____ of other part on the following covenants:

Whereas the contractor has offered to enter into contract with the said CREDA for the Design, Supply & comprehensive Unconditional Warrantee of Solar Mother Care cum Maternity Kit.

Wide Tender No **11818** date **04.12.2020** on the terms and conditions herein contained and the rates approved by the CREDA have been duly accepted and where as the necessary security deposit shall be furnished in accordance with the provisions of the tender document and whereas no interest will be claimed on the security deposits.

Now these presents witness and it is hereby agreed and declared by and between parties to these presents as follows -

- 1) The Contractor shall, during the period of this contract, that is to say fromtoor completion thereof, until this Contract shall be determined by such notice as is hereinafter mentioned, safely carryout, by means of labour employed at his own expenses and by means of tools, implements and equipment etc. to be supplied by him to his labour at his own expenses, for Design, manufacturing & supply of "SOLAR MOTHER CARE CUM MATERNITY KIT" as described in tender documents. (Annexed to the agreement), .
- 2) The NIT (Notice Inviting Tender), Corrigendum to NIT, Bid documents (Qualifying and Financial), approved rates annexed hereto and such other additional particulars, instructions, engineering documents & drawings, so far they relate to the Tender No. **11818** as may be found requisite to be given during execution of the work shall be deemed and taken to be an integral part of the contract and shall also be deemed to be included in the expression "The Agreement or "The Contract "wherever herein used.
- 3) The contractor shall also supply the requisite number of workmen with means & materials as well as tools, appliances, machines, implements, vehicles for transportation, cartage etc. required for the proper execution of work within the time prescribed in the work orders and /or as per the tender conditions.
- 4) Contractor shall provide 05 year warranty in Supplied Solar Mother Care cum Maternity Kit from the date of commissioning as per the terms & conditions prescribed in the Tender No. **11818**
- 5) The contractor hereby declares that nobody connected with or in the employment of CREDA is not/shall not ever be admitted as partner in the contract.
- 6) The contractor shall abide by the terms and conditions, rules, guidelines, construction practices, safety precautions etc. stipulated in the tender document including any correspondence between the contractor and the CREDA having bearing on execution of work and payments of work to be done under the contract.
- 7) The contractor shall be responsible to follow all the laws including Workmen Compensation Act and all other laws in force & shall be responsible for all the obligations towards labour including EPF,ESI, etc.
- 8) All the taxes deductible at source as per Acts in vogue shall be recovered by CREDA and deposited with the appropriate authorities

In witness whereof the parties present today have hereby entered into agreement.

Signed &sealed on behalf of the above named contractor.

Signed on behalf of CREDA

Name:(.....)

Name :

Designation:-

Designation :.....

Witness:

1. Name:-

2. Name:-.....

Address:-.....

Address:-.....

PRICE BID-I

Schedule of Rates for Solar Mother Care cum Maternity Kit.

(As per Specifications & Scope of Work of

(E-BID DOCUMENT No. 11818/CREDA/BID/SMK/2020 Date 04-12-2020)

Design & supply of **Solar Mother Care cum Maternity Medical Equipments Kitcase** including all allied works with five years comprehensive unconditional warrantee at anywhere in Chhattisgarh State as per scope of work.

No.	Description	Rate/ Unit (without GST)
1	Design & Supply of Solar Mother Care cum Maternity Medical Equipments Kitcase as specified in tender document at anywhere in the state of Chhattisgarh.	
TOTAL		

Certified that rates quoted above are as per the requirement, specifications, and terms & condition mentioned in the bid document.

Above rates are FOR anywhere in the State of Chhattisgarh inclusive of roadworthy packing, loading, unloading, all types of incidental expenses, insurance, duties and any other job required to properly execute the work with 5 years warrantee as mentioned in the bid document. The GST payable on the bill produced for payment to CREDA shall be paid in addition to above quoted price as per rate of GST applicable at the time of billing.

(No other cost will be claimed above the price quoted)

Name of the authorized Signatory:

Signature of the Authorized Signatory:

Seal of Company:

Date:

PRICE BID-II

Schedule of Rates for Solar Mother Care cum Maternity Kit.

***(As per Specifications & Scope of Work of
(E-BID DOCUMENT No. 11818/CREDA/BID/SMK/2020 Date 04-12-2020)***

supply & installation of **Solar Home Light System** including all allied works with five years comprehensive unconditional warrantee at anywhere in Chhattisgarh State as per scope of work.

No.	Description	Rate/ Unit (without GST)
1	Supply of SPV Home Lighting System as per specifications at the site.	
2	Installation and commissioning of SPV Home Lighting System as per specifications at the site.	
3	COMC work of 05 years.	
TOTAL AMOUNT		

Certified that rates quoted above are as per the requirement, specifications, and terms & condition mentioned in the bid document.

Above rates are FOR anywhere in the State of Chhattisgarh inclusive of roadworthy packing, loading, unloading, all types of incidental expenses, insurance, duties and any other job required to properly execute the work with 5 years warrantee as mentioned in the bid document.

According to GST notification no. 24/2018-Central Tax (Rate) Dated 31.12.2018 GST Rate will be applicable under composite supply and installation basis. Rate of GST on supply of Goods (70% of gross consideration treated as supply of Goods) 5% GST and balance portion (30% of gross consideration treated as taxable installation services) 18% GST will be paid extra as per prevailing rate. No other cost will be claimed other than above quotes price & the applicable GST.

Note: In this regard if there is any change in the composition ratio of goods and services by any Authority/Courts, same shall be applicable.

➤ **Rate will be compared excluding COMC rates.**

Name of the authorized Signatory:

Signature of the Authorized Signatory:

Seal of Company:

Date: