



**Chhattisgarh State Renewable Energy
Development Agency (CREDA)
Regional Office, Raipur**

(Dept. of Energy, Govt. of Chhattisgarh)

Qtr. No. 23, MaulshreeVihar Colony

VIP (AirPort Road) Raipur 492015 (C.G.)

Website: www.creda.co.in

BID DOCUMENT No. 2196/CREDA/ROR/ SOLAR PCU /2021-22 Dated : 28.07.2021

“TENDER FOR FIXATION OF RATES FOR SUPPLY AND INSTALLATION OF SOLAR STRING INVERTER OF VARIOUS CAPACITY WITH 05 YEARS ONSITE WARRANTY CONFORMING TO THE IEC/BIS AND MNRE STANDARDS IN ANY DISTRICT UNDER CREDA REGIONAL OFFICE RAIPUR”

S.No	Particulars	Date	Time	Place
1	Submission of Bid Document, Technical Bid, and Price Bid	23.08.2021	Till 1.00PM	CREDA Regional Office Raipur
2	Opening of Bid	23.08.2021	At 3.00PM	CREDA Regional Office Raipur

Bid Document Cost— Rs.1000.00

(in words Rupees One Thousand Only)

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

(J.N. Baiga)

Executive Engineer,
CREDA, R.O. Raipur

CHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY

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NOTICE INVITING BID

CREDA invites sealed Bids from the manufactures (i.e. OEM) or their only one authorised dealer/distributor for **“fixation of rates for supply of solar string inverter of various capacity with 05 years onsite warranty conforming to the IEC/BIS and MNRE standards in any district under CREDA Regional office Raipur”** from OEM or their dealer having 1 year track record in solar Inverter/PCU manufacturing, as per following details -

Sl.No.	Item Description	Required No. of Inverter	Approximate value of purchase	Cost of Bid Document	EMD
1	Supply of Solar String Inverter of 20KW and 50 kW Three Phase with 05 years onsite warranty conforming to MNRE/BIS/IEC specification	02	3 Lacs	Rs 1000.00	Rs.15000.00

Important Events and time schedule for this Bid are as follows –

S.No	Particulars	Date	Time	Place
1	Submission of Bid Document, Technical Bid, and Price Bid	23.08.2021	Till 1.00PM	CREDA Regional Office Raipur
2	Opening of Bid	23.08.2021	At 3.00PM	CREDA Regional Office Raipur

The bidder should have to deposit bid document cost, along with EMD as mentioned above through demand draft payable to “CREDA Raipur” while submitting bid.

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

(J.N. Baiga)
Executive Engineer,
CREDA, R.O. Raipur

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 –

Sl. No.	Description	Complied	Page No. / Flag
1	Earnest Money Deposit		
2	Bid Document Fee (proof of submission)		
3	The original document duly signed & with stamp on each page, as a confirmation of acceptance of Terms & Conditions (T&C).		
4	Copy of Approved Test Reports in the name of Bidder/manufacturer as per eligibility criteria.		
5	Completion and Performance Certificates of Supply of Inverter/PCU by the Bidder in Govt/ Private Sector in any state.		
6	Manufacture Authorization certificates of Inverter/PCUs		
7	Undertaking by the Bidder		
8	PAN, GSTIN, Copy of ITRs for last two FY of the Bidder		
9	Self-certificate from Bidder on not being a debarred from Government contract or a blacklisted company.		
11	Details of Service centre in India and Raipur		

Details of EMD and Bid Fee

Sl. No.	Description
1.	Earnest Money Deposit – Earnest Money Deposit of Rs., submitted in the form of Demand Draft /RTGS/NEFT from any scheduled bank drawn on _____ Bank _____ Branch, bearing DD No. _____ dated _____ is attached herewith.
2.	Bid Document Fee – Bid Document Fee of Rs....., submitted in the form of Demand Draft / RTGS/NEFT from any scheduled bank drawn on _____ Bank _____ Branch, bearing DD No. _____ dated _____ is attached herewith.

(Sign & Seal of the Manufacturer)

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 valid for **One Hundred Eighty (180) days** from the due date of submission thereof and not to make any modifications in its terms and conditions.

A sum of **Rs.....** is hereby forwarded as **Earnest Money** in the form of crossed demand draft / RTGS / NEFT payable to CREDA at Raipur (C.G.). If I/We, fail to commence or complete the Work Ordered in specified time or fail to fulfil the any condition of Bid document, 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 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 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:

.....

SECTION - 1

INSTRUCTIONS FOR BIDDERS

1. ELIGIBILITY CRITERIA:

A. TEST REPORTS OF INVERTER/PCUS

Bidder must have valid test reports of String Inverters for all category separately in the name of manufacturer for which Bidder must make offer for supply. They will have to provide copy of such test report of their Inverter/PCUs from any test centre approved by Ministry of New & Renewable Energy (MNRE)/ NABL. **Bidder will be debarred from price bidding for all other categories for which they have not submitted valid test report / acknowledgement.**

The bidder also shall have to submit a self declaration that the Inverter/PCUs for which bidder is quoting offers are conforming to the latest guidelines and specification of MNRE issued for testing and BIS compliance.

B. MINIMUM EXPERIENCE

Bidders must have minimum experience in one financial as per the details mentioned below –

S.No.	Details of Inverter/PCUs	Category	Minimum Experience of Company/ Authorized dealer
1	Supply and installation of solar Solar String Inverter/PCU	Solar String Inverter	1. Minimum 01 year experience in PCU/Inverter/Charge Controller manufacturing/supply. 2. Bidder must have supplied Min 200 KW aggregate capacity Solar string PCUs/Inverters in any government/ private agency/organisation/undertakings in any state. Inverter supplied to private parties (Private Business) will also be considered.

Bidders will have to submit satisfactory commissioning/functioning report containing complete details from the concerned organization along with bid document. All these Inverter/PCUs should be in successful operation as on date.

- C. Experience Certificates submitted should be in attached format (as per annexure-II) **or Other Format containing similar information as in attached format (annexure-II) shall be considered only in-case of submitted in Hindi / English Language only.**
- D. Bidders must have a Positive Net worth as on **31st March 2020/2021**. They shall have to submit a **Original Certificate** duly signed by a qualified and registered Chartered Accountant having UDI number as a proof. Produced certificate must tally with the audited balance sheet.
- E. Bidder who is debarred from business by Govt. /Govt. Agency in any state would not be eligible to participate in this bid. A self-declaration should be submitted by the bidder to this effect, failing which bid shall be rejected.

- 2. Bid Documents should be dropped in the bid box kept in the Regional Office, CREDA, Raipur on **23.08.2021** till 1.00PM] Bids after scheduled time and date shall not be accepted.
- 3. Bid Documents should be submitted in prescribed manner in separate envelopes duly super scribed and placed as follows- (I) Bid Fees and EMD , (II) Eligibility Documents as per point 1(A) to 1(F) mentioned above (III) Technical Bid and Complete bid document in original duly signed by authorized signatory on each & every page of the bid document. (IV) Price Bid.
- 4. The envelopes must be clearly marked as “(I) Bid Fees and EMD /(II) Eligibility Documents / (III) Technical Bid and Complete bid document in original / (IV) Price Bid. “BID DOCUMENT No. **2196/CREDA/ROR/ SOLAR PCU /2021-22 Dated : 28.07.2021**
- 5. The documentary evidence for meeting the eligibility criteria must mandatorily be submitted along with as per check list with bid in prescribed manner.
- 6. When Bid documents are delivered through messenger, it should be submitted in the bid box

kept in the office of the Executive Engineer CREDA, R.O., Raipur on or before 1.00 PM dated **23.08.2021** Nobody is authorized to receive or grant receipt for bid delivered on behalf of CREDA.

7. SPECIFICATION AMENDMENTS -

The Specifications of Inverter/PCUs should be as per as Specified in the Bid. If any amendments are issued by CREDA in due course of time, in this context, then those shall be applicable under this Bid.

8. GST & PAN -

Bidder shall have to submit copies of GST registration number and PAN numbers issued by the appropriate authority.

9. RMS /DATA LOGGER -

Login ID & Password of RMS/Data Logger shall be mentioned in each JCC/Invoice and all data will have to be shared at suitable platform provided by CREDA as and when required.

10. THE BID -

Technical Bid must be deposited in the Bid box only kept in CREDA RO Raipur, Maulshree Vihar, H.No. 23, VIP Road, Raipur **from 11:00 am to 01:00 PM on 23.08.2021** nobody is authorized to receive or grant receipt for Bid delivered on behalf of CREDA RO Raipur. Bid received through any other means shall not be considered.

11. ANALYSIS OF RATE -

Bidder should quote their rates considering variation of site conditions and all other factors in price of different components and keeping the quantum and quality of inverters/PCU in mind. The bidder has to quote the price without GST.

12. VALIDITY -

Full descriptive particulars and complete specifications should accompany the offer. Offers should be kept open for acceptance for at least **180 days** from the date of opening. After finalization of this Bid 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.

13. TERMS & CONDITIONS -

- A.** The terms, conditions and specifications mentioned in Bid 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 Bid documents, their offers shall be liable to be rejected out-rightly without assigning any reason whatsoever.
- B.** Each page of Bid 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 Bid, the Bidder should attest the same; otherwise Bids may not be considered.
- C.** Bidders are also instructed to submit their Bids in properly arranged manner (with index, proper paging and with flags on important documents). Incomplete, lose, conditional or improper arranged Bids will not be accepted.

14. CREDA RO RAIPUR RESERVES THE RIGHT -

- (i)** To reject or accept any or all Bids fully or partly without assigning any reason on the grounds considered advantageous to CREDA RO RAIPUR, whether it is the lowest Bid or not.
- (ii)** To split the quantities against the Bid further for the same items/work. No reason will be assigned by CREDA RO RAIPUR for this and will be binding on the Bidders.
- (iii)** To increase or decrease of aggregate quantities up to 100 % as per discretion or

circumstances.

- (iv) CREDA RO RAIPUR may undergo agreement with eligible Bidder and may allocate work to them. CREDA RO RAIPUR reserves right to curtail or extend this period.

15. COMMUNICATIONS -

- A. All the communication between Bidder and CREDA RO RAIPUR shall be in writing. Notice sent by Fax or other Electronic means shall be effective on confirmation of the transmission. Notice sent by registered post or speed post shall be effective of delivery or at expiry of normal delivery period as under taken by Postal Service.
- B. Offers through Telegraph/Fax/Emails/Post/Courier or open offers etc. received shall be summarily rejected.

16. BID DOCUMENT FEE AND EARNEST MONEY-

Each Bidder should submit Bid Document Fee and earnest money in the form of Demand Draft/Pay Order or RTGS/NEFT as mentioned in the NIT **2196/CREDA/ROR/ SOLAR PCU /2021-22 Dated : 28.07.2021**, 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/FDR /TDR etc. shall not be accepted.**

17. TECHNICAL CRITERIA -

Bidder must have valid test reports of Solar hybrid & String Inverters for all category separately in the name of manufacturer for which Bidder must make offer for supply. They will have to provide copy of such test report of their Inverter/PCUs from any test centre approved by Ministry of New & Renewable Energy (MNRE)/ NABL. **Bidder will be debarred from price bidding for all other categories for which they have not submitted valid test report / acknowledgement.**

The bidder also shall have to submit a self declaration that the Inverter/PCUs for which bidder is quoting offers are conforming to the latest guidelines and specification of MNRE issued for testing and BIS compliance.

18. 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 under any Scheme of CREDA, within stipulated time, if he is so communicated within the validity period of the offer, the full amount of earnest money will be forfeited and Bidder shall be debarred from future business with CREDA. CREDA's decision in this regard will be final and binding on the Bidders.

19. PRICE OF SUPPLY OF INVERTER/PCU -

- I. The Price quoted for all Inverter/PCUs with 5 years onsite warranty. The GST shall be paid extra as per prevailing rate. The prices shall be filled exactly as per Price Bid enclosed.
- II. Any change in GST shall be become applicable during the period of contract.

20. ENGINEERING DOCUMENT -

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 RO RAIPUR. Supply may only be started out only after approval of the Engineering Document/Drawing.

21. INSPECTIONS -

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

22. TAX OBLIGATIONS -

CREDA shall deduct TDS for Income Tax, applicable cess on Civil Work etc. under various acts and deposited with the appropriate authority. Costs and taxes before execution of agreement with CREDA so as to ensure tax deposition as per Government Rules accordingly.

23. JURISDICTION OF THE COURT -

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

SECTION - 2

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 RO Raipur represented through the Executive Engineer.
- Work shall mean any work entrusted to the Bidder as mentioned in the scope of work and Work Order.
- The "Engineer in charge" shall mean the Engineer or Engineers authorized by CREDA for the purpose of this contract. Inspecting Authority shall mean any Engineering person or personnel authorized by CREDA to supervise and inspect the Technical specification of the Inverter/PCU.
- "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 bidder 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. PROOF OF MANUFACTURER -

Those bidders who are also manufacturers of an important component of Inverters/PCU 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 and Work 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 Government 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.

5. VARIATIONS, ADDITIONS & OMISSIONS -

CREDA shall have the right to alter, amend, omit, split or otherwise vary the quantum of supply, by notice in writing to the Bidder. The eligible Bidder 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 Bidder.

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 and commissioning. Such inspection will not relieve the eligible bidder 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 / godown at the cost of the eligible bidder, if desired by CREDA.

- C. CREDA will undertake real time performance and quality test of randomly selected Inverter/PCU and its components during the course of execution as per the specifications and guidelines laid by CREDA to ensure quality and performance of Inverter/PCU and components.

7. COMPLETION OF WORK -

Time being the essence of contract, the supply of the Inverter/PCUs shall be completed within the time schedule prescribed in the Work Order.

8. ELIGIBLE BIDDER'S DEFAULT LIABILITY -

CREDA may write notice of default to the eligible bidder, terminate the contract in circumstances detailed hereunder -

- (a) If in the opinion of the CREDA, the eligible bidder fails to complete the supply within the time specified in the supply Order or within the period for which extension has been granted by CREDA to the eligible bidder.
- (b) If in the opinion of CREDA, the eligible bidder 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 bidder or agency upon such terms and in such a manner as it may deem appropriate and the eligible bidder shall be liable to CREDA for any additional costs or any losses caused to CREDA as may be required for the supply of the Inverter/PCUs 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 bidder 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 bidder 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 bidder 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 Inverter/PCU 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/work done by the eligible bidder is found defective in material or workmanship or otherwise not in conformity with the requirements of this contract specifications, CREDA shall either reject the material and/or work and advise the eligible bidder to rectify the same. **CREDA may impose penalty for such rejection up to the 200% cost of the entire system. Habitual/repeated offenders shall be black listed/debarred to participate in the any Bid/ Activity of CREDA till further orders.** The eligible bidder on receipt of such notices shall rectify or replace the defective material and rectify the work free of cost. If the eligible bidder fails to do so CREDA may -

- a) At its option replace or rectify such defective materials and/or work and recover the extra cost so involved from the eligible bidder plus **10%** service charges of the cost of such rectification, from the eligible bidder and/ or terminate the contract for balance work/ supplies with enforcement of penalty as stated above.
- b) Defective materials/workmanship will not be accepted under any conditions and shall be rejected outright without compensation. The eligible bidder shall be liable for any loss/damage sustained by CREDA due to defective work 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 bidder, the eligible bidder shall give notice to the CREDA without any delay in writing of his claim for an extension of time. CREDA on receipt of such notice may or may not agree to extend the contract/delivery date of the inverter/PCU 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) The Inverter/PCUs, Charge Controller & Other BOS shall be made in India except in case of hybrid and string inverters subjected to the availability of service centre in INDIA.
- (II) The eligible bidder has to ensure that equipment's as per Technical Requirements of guidelines of CREDA as complied with. The material/works for which CREDA/MNRE or BIS 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 inverters/PCU should be submitted to the engineer-in-charge of the works before installation of the same.
- (III) Successful bidder upon issue of LOI must submit Manufacture Authorization Form (MAF) From manufacture of Solar Inverter/PCU ,Charge Controller which it is intending to use during supply guarantee at least five year warrantee of Inverter/PCU before supply of Inverter/PCU, **no payment shall be made if he fails to do so.**
- (IV) Eligible bidder should submit warrantee Agreement of **at least 5 years** for Inverter/PCUs with manufacturer or distributors certified by the manufacturer before supply of Inverter/PCUs, for any manufacturing defects or bad workmanship.

13. WARRANTEE PERIOD AND POST SUPPLY SERVICES -

- A. The work done/material supplied by the eligible bidder should be warranted for satisfactory operation and against any defect in material and workmanship including Inverter/PCUs ,charge controllers and other balance of equipment's, at least for a period of **5 (five) years**, from the date of supply of the inverters.
- B. 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.
- C. The warrantee period shall be extended by the period during which the Inverter/PCU remains non-operative due to reasons within control of the eligible bidders.
- D. This warrantee must be an unconditional onsite warrantee and the eligible bidder will have to replace the defective material within **7 days** positively from the date of information given to him.
- E. Care should necessarily be taken to make the Inverter/PCUs operational, once the reporting of the fault/non-operational status is done, within a week. If the Inverter/PCU is not made operational within **7 days** CREDA may rectify the same at the cost of bidder and the warrantee period shall be extended for a month for the same.
- F. Eligible Bidder shall have to establish their service stations in headquarter and shall have to keep sufficient quantity of spares and man power to ensure proper service network for taking care of smooth functioning of Inverter/PCU supplied by them. Eligible bidder shall have to give a toll free number to register complaints.

14. TERMS OF PAYMENT -

The following terms of payment shall apply for the Bid -

- A. **95%** of the eligible payment as per the supply Order after satisfactory supply, performance test of the Inverter/PCU at site with proper handing over.
- B. Balance **5%** of the eligible payment (Without GST) shall be retained by CREDA as Performance Security for a period of **60 months from the date of supply or commissioning of inverters whichever is earlier.**

15. PENALTY FOR DELAY IN COMPLETION OF CONTRACT -

If the eligible bidder fails to complete the assigned work within the schedule time specified in the supply Order or any extension granted there to, CREDA will recover from the bidder as penalty a sum of **One per cent (1%)** of the system price excluding GST/Tax 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 Inverter/PCU allocated to bidders shall be done time to time by CREDA and if the progress of supply is found unsatisfactory, the allocation of entire remaining Inverter/PCU can be re-allocated to other bidder as per discretion of CREDA.

16. SECURITY DEPOSIT (SD) -

- A.** The Earnest Money shall be retained by CREDA for the period of validity of tender.
- B.** Beside this, **5%** of the cost (without GST) shall also be retained as SD during the five years of warrantee period. No interest shall be payable on the Security Deposit.
- C.** Period for which EMD and SD are to be retained may be extended in case the warrantee period is extended due to non performance of the system.

17. INSURANCE -

The eligible bidder shall arrange insurance coverage for the materials at his/ beneficiary's custody for the work under execution and successful commissioning and subsequent handover to the beneficiary. The eligible bidder shall take up insurance or such other measures for the manpower so as to cover the claim for damage / accident under workmen's compensation Act and other applicable State/Central laws. CREDA shall not bear any responsibility on this account.

18. PENALTY DUE FROM THE ELIGIBLE BIDDER -

All costs of damages and delays for which the eligible bidder is liable to the CREDA will be deducted from any money due to the eligible bidder including the security deposit of any project under CREDA.

19. ELIGIBLE BIDDER'S RESPONSIBILITY -

Notwithstanding anything mentioned in the specifications of subsequent approval or acceptance of the Inverter/PCUs by CREDA, if any, the ultimate responsibility for satisfactory performance of the entrusted work shall rest with the eligible bidders. If in any case the eligible bidder does not complete the Supply as per the supply Orders issued to them then CREDA may take over the task & complete the project at the risk and cost of eligible bidder.

20. 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 bidder is responsible for the cause thereof or from any cause whatsoever, the eligible bidder 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 bidder 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.

21. RESPONSIBILITY TOWARDS THE WORKMAN-

- A.** The eligible bidder shall have to take insurance coverage from any authorized Insurance Company against Workmen compensation due under Workmen Compensation Act and submit copy of the insurance document before issuance of Work Order.
- B.** The eligible bidder 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.

- C. All the expenditure including treatment or compensation will be entirely borne by the eligible bidders. The eligible bidder shall also be responsible for any claims of the workers including, labour payments PF, Accidental Insurance, Gratuity, ESI & other legal obligations.
- D. CREDA shall have all rights to deduct such claims of payments from bidder in case of complaints of such violations.

22. NON-ASSIGNMENTS -

The eligible bidder shall not assign or transfer the supply Orders issued as per this contract or any part thereof without the prior approval of CREDA.

if eligible bidder 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 Bid/Activity of CREDA till further orders.

23. 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 bidder of his obligations for due performance of the contract.

24. SETTLEMENT OF DISPUTES THROUGH ARBITRATION -

- A. 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 bidder is made to CREDA. The decision of the CEO, CREDA shall be final and binding to the all concerns.
- B. 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.

25. 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.

26. 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.

27. CORRESPONDENCE -

- A. Any notice to the eligible bidder under the terms of the contract shall be served by registered mail to the registered office of the eligible bidder or by hand to the authorized local representative of the eligible bidder and copy by post to the eligible bidder's principal place of business.
- B. Any notice to CREDA shall be served to the Executive Engineer CREDA RO Raipur in the same manner.

28. SECRECY -

The eligible bidder 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.

29. AGREEMENT -

The successful eligible bidder shall have to enter into an agreement with the CREDA in the approved contract agreement form within **10 days** of the receipt of call from CREDA.

30. DECLARATION OF CONFLICT OF INTEREST –

The bidder hereby declares that nobody connected with or in the employment of **CREDA** is not/shall not ever be admitted as partner in the contract.

31. BID EVALUATION CRITERIA -

- A.** Offers of only those parties, who are found qualified based on Eligibility Criteria and Techno-commercial Bid, will be taken into further consideration and financial bid of only those parties who are qualifying the criteria of Techno-commercial Bid will be opened.
- B.** Other things being equal, the lowest rates shall normally be preferred, but CREDA shall have rights and liberty to amend/lower the rates.
- C. Conditional Bids shall not be accepted.**

32. EVALUTION OF PRICE BID -

Price bid shall be evaluated on the basis of Quoted rates. Lowest rates of each category of Inverter/PCUs shall be considered however CREDA shall have discretionary power to amend/lower the rates.

33. ALLOCATION OF TARGETS AND AREA OF WORK -

The supply shall preferably allotted to lowest bidder on L-1 rates subjected to rate reasonability however the CREDA has sole discretionary power to award work to any other eligible bidder on L-1 rates if he agreed to supply on L-1 rates.

34. BID REJECTION -

If financial bid of a bidder has been opened on the basis of technical bid of a bidder which has been determined to be substantially responsive to the bidding document and in latter stage it is found that bidder does not meet the eligibility criteria or the technical bid is found substantially non-responsive, CREDA reserves rights to reject such bid of a bidder any time.

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

(Name, Signature & Seal of the SI)

SECTION-3

SCOPE OF WORK AND TECHNICAL SPECIFICATION OF SOLAR INVERTER/PCU

Supply of Solar String Inverter/PCU for Solar Application for solar power plant anywhere in the State of Chhattisgarh as per these tender norms.

1. REMOTE MONITORING

All the relevant parameters of PCU should be available for remote monitoring/ controlling over internet using GPRS based monitoring solution. The list of parameters should include:

1	Inverter/PCU/ Mains Charger	<ul style="list-style-type: none"> • Inverter/PCU Voltage, Current, Frequency • Mains Voltage, Current, Frequency • Battery Voltage, Current • Active Faults
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There should be facility to turn on/ off the unit remotely using GPRS based monitoring solution. All the data should be downloadable in form of excel sheets from the portal. The portal should be accessible from anywhere through a URL, user ID and password.

2. Other important Features:

- a) PCU shall be capable of complete automatic operation including wake-up, synchronization & shutdown. (c) Inverter/PCU should have internal protection arrangement against any sustainable fault in feeder line and against the lightning on feeder.
- b) Built-in meter and data logger to monitor plant performance through external computer shall be provided.
- c) Anti-islanding (Protection against Islanding of grid): The PCU shall have anti islanding protection in conformity to IEEE 1547/UL 1741/ IEC 62116 or equivalent BIS standard.
- d) The PCU/ Inverter/PCU generated harmonics, flicker, DC injection limits, Voltage Range, Frequency Range and Anti-Islanding measures at the point of connection to the utility services should follow the latest CEA (Technical Standards for Connectivity Distribution Generation Resources) Guidelines. 244 Compendium of Policies, Regulations, Technical Standards & Financing Norms for Solar Power Projects
- e) The PCU / Inverter/PCUs should comply with applicable IEC/ equivalent BIS standard for efficiency measurements and environmental tests as per standard codes IEC 60068-2 (1,2,14,30)/ Equivalent BIS Std.
- f) The MPPT units environmental testing should qualify IEC 60068-2 (1, 2, 14, 30)/ Equivalent BIS std. The junction boxes/ enclosures should be IP 65 (for outdoor)/ IP 54 (indoor) and as per IEC 529 specifications.
- g) The PCU/ Inverter/PCUs should be tested from the MNRE approved test centres NABL/ BIS/ IEC accredited testing- calibration laboratories. In case of imported power conditioning units, these should be approved by international test houses.
- h) Inverter/PCU shall be applicable to operate in the both offline and online mode so that if export facility is required then it can be converted in to grid export mode.

3. STANDARD SPECIFICATIONS FOR A GRID-TIED PV STRING INVERTER FOR SOLAR APPLICATION

Parameters		Explanation	Standards
Constructions and Safety test		Safety of power converters for use in photovoltaic power systems –Part 1: General requirements	IEC 62109-1 (Standalone Inverter/PCU& MPPT/Charge controller)
Constructions and Safety test		Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for Inverter/PCUs - Edition 1.0	IEC 62109-2 (Central Inverter/PCU)
Anti-Islanding test		Test procedure of islanding prevention measures for utility-interconnected photovoltaic Inverter/PCUs	IEC 62116
Test related to utility		Photovoltaic (PV) systems – Characteristics of the utility interface	IEC 61727
Paralleling of Inverter/PCU		Verify that a synchronization control function will cause the paralleling device to close only when key synchronization parameters are within allowable limits.	IEEE 1547.1
Paralleling of Inverter/PCU		Determine the magnitude of the synchronization start-up current.	Cl 5.4 IEEE 1547.1
Technical Specifications			
S. No	Parameters	Explanation	Standard
1	Harmonics	Harmonic current injections should not exceed the limits specified in IEEE 519 (recommendation by CEA)	IEEE 519
2	Flicker	Flicker should not go beyond the limits specified in IEC 61000 (recommendation by CEA)	IEC 61000
3	DC Injection	DC injection into the grid should not be greater than 0.5% of the full rated output at the interconnection point	CEA (Technical Standards for connectivity of the Distributed Generation Resources) Regulations, 2013
4	Power factor	It should be within the limits of 0.95 lagging and 0.95 leading	CEA (Technical Standards to for Connectivity to the grid) Amendment Regulations, 2013
5	Reactive power	Inverter/PCU should be capable of supplying dynamically varying reactive power support to maintain the power factor of 0.95 lagging to 0.95 leading	CEA (Technical Standards to for Connectivity to the grid) Amendment Regulations, 2013
General Specifications			
S. no	Parameters	Explanation	Standard
1	Parameters Display	<ul style="list-style-type: none"> • DC Voltage (V) • DC current (A) • DC power (W) • AC voltage (V) • AC current (A) • Apparent AC power (W) • Power Factor (Cosφ) • Active AC power (W) • Reactive AC power (W) • Daily energy generation (kWh) • Cumulative generation (kWh) 	

		<ul style="list-style-type: none"> Cumulative run time (hours) 	
2	Efficiency	Max. eff. >95%	Efficiency measurement procedure as per IS/IEC 61683
3	Weighted Efficiency	>94%	
5	Operating humidity	0% to 98% Rh	
6	Communication Interfaces	GPRS based RMS shall be provided, portals, SIM card, Data charges shall be in bidders scope for 60 months	
7	Maximum power point tracking	Min. Double MPPT Should be provided	
8	Warranty	Minimum of 5 years	
		Safety Compliances	
S.no	Parameters	Explanation	Standard
1	Protective systems	<ul style="list-style-type: none"> Over and under voltage trip functions if voltage reaches above 110% or below 80% respectively with a clearing time up to 2 seconds Over and under frequency trip functions, if frequency reaches 50.5 Hz and below 47.5 Hz with a clearing time up to 0.2 seconds Inverter/PCU should cease to energize the circuit to which it is connected in case of any fault in the circuit A voltage and frequency sensing and time-delay function to prevent Inverter/PCU from energizing a de-energized circuit, and preventing Inverter/PCU to reconnect to the electricity system unless voltage and frequency reached prescribed limit and are stable for 60 seconds A function to prevent the Inverter/PCU from contributing to the formation of an unintended island, and cease to energize the electricity system within two seconds of the formation of an unintended island Every time the Inverter/PCU is synchronized to the electricity system, it shall not cause voltage fluctuation greater than $\pm 5\%$ at the point of connection 	CEA (Technical Standards for connectivity of the Distributed Generation Resources) Regulations, 2013
2	Main Surge protection	Should be provided	
3	Lightning protection	Should be provided	
4	Electronics degree of protection	Protection of electronics against dust, accidental contact, and water by mechanical casings and electrical enclosures	IEC 60529 (IP 20, 54, 65)
5	Degree of protection	Degree of protection for stationary use at non-weather protected locations	IEC 60721-3-4

4. Factory Test

The eligible bidder shall develop and submit a comprehensive factory acceptance test (FAT) plan to CREDA for its review and approval. FAT shall be carried out at a subsystem or module level and shall consist of all the components of inverters/PCU to the extent possible. FAT shall be demonstrated to CREDA's representative for compliance of specification, inclusive but not limited to following:

1. Visual inspection of equipment including dimensions and overall design.
2. Verifications of sensors, metering and alarms.
3. Verification of all control functions including remote control, monitoring and Communication interfaces.
4. Verification of inverter/PCU performance at full/ partial Energy/ Power ratings.
5. Verification of maintenance and replacement features for units and other components

During the FAT, Inverter/PCU shall be operated as specified & designed in all the operating states, use cases and duty cycles. It shall meet power/ energy requirements and shall be demonstrated to meet the safety requirements. Operation of all control, protective relaying and instrumentation circuits shall be demonstrated by direct tests, if feasible, or by simulating operating states for all parameters that cannot be directly tested. Automatic, local and remote operation of the controls shall be demonstrated.

Inverter/PCU shall be verified for operation at temperature extremes defined in specification. For this, if it is not possible for the full set, then independent laboratory certification of operation of critical components and subsystems shall be submitted at the time of FAT.

During FAT, if something mal-operates then FAT shall be suspended and resumed after rectification of the problem. It is the sole discretion of CREDA whether to conduct FAT test or not.

5. Site Test

The eligible bidder shall submit comprehensive plan for site acceptance test to the CREDA for approval. SAT plan shall include procedures to test correct system responses to system disturbances and operating scenarios described in the specification. The tests shall include, as a minimum, the following:

- Verification of sensors, metering and alarms
- Verification of all control functions including automatic, local and remote control
- Verification of the performance criteria
- Demonstration of all the intended applications
- Demonstration of grid interface protection & control system
- Verification of power quality parameters

5. Transportation and Storage at Site

The bidder shall be responsible to survey, select and verify the route, mode of transportation and make all necessary arrangement with the appropriate authorities for the transportation of the inverter/PCU. The dimension of the inverter/PCU shall be such that when packed for transportation, it will comply with the requirements of loading and clearance restrictions for the selected route. It shall be the responsibility of the eligible bidder to coordinate the arrangement for transportation of the inverter/PCU for all the stages from the manufacturer's work to site.

The Eligible bidder shall dispatch the inverter/PCU in such way to avoid any accident either due to road conditions, environmental conditions and any other conditions which may be arise during transportation.

Eligible bidder shall follow all the rules, regulations and guidelines applicable for transportation of batteries in India as well as in country of origin.

6. Mandatory Spares

Bidder shall provide a list of mandatory spares for the offered system. It shall not be binding on the Employer to procure all of these mandatory spares. No mandatory spares shall be used during the commissioning of the equipment or warranty period. Any spares required for commissioning /

warranty shall be arranged by the eligible bidder. The unutilized spares if any brought for such purposes shall be taken back by the eligible bidder after the specified warranty period.

7. Training

Eligible Bidder shall provide training in India to manpower identified by CREDA. Training shall cover all aspects of solar power plant and battery, specific inverter details and its operation needed for proper operation & maintenance of the system. The eligible bidder shall be responsible for determination of content & duration of training sessions. All training materials shall be submitted to CREDA for approval. Training course requirements are described below in terms of the contents of each course. Training shall cover orientation, operation and maintenance.

- Orientation Course.
- Operation & Maintenance Course.
- Application Software Course.
- Operator Training Course.

8. Test Standards for Solar Inverter/PCU of all category

Sl. No.	Product	Indian Standard Number	Title of India Standard
1	Power Inverter/PCUs for use in Photovoltaic Power System	IS 16221 (Part-2)	Safety of Power Converters for use in Photovoltaic Power Systems Part-2 – Particular Requirements for Inverter/PCUs
2	Utility – Interconnected Photovoltaic Inverter/PCUs	IS-16169	Test Procedures of Islanding Prevention Measures for Utility-Interconnected Photovoltaic Inverter/PCUs

Section-04

PRICE BID

1. Price Bid (For supply & Installation of Solar String Inverters)

(bidding as per Specifications & Scope of Work of No 2196/CREDA/ROR/ SOLAR PCU /2021-22 Dated : 28.07.2021)

“Rates for supply and Installation of Solar String Inverter/PC of various capacity with 05 years onsite warranty conforming to the IEC/BIS and MNRE standards anywhere in the state of Chhattisgarh are”:-

S.No.	Item Description	Unit	Unit Rate of system Excluding GST(In Rs.)
Solar String Inverter(Three Phase)			
1	20 KW	Nos	
2	50 KW	Nos	

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

The bidder must have to provide technical data sheet for each category of inverter/PCU showing full technical details of Inverter/PCU failing which the quoted rate shall not be consider by CREDA.

Current rate of GST:-

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

Signature of Bidder

Name _____

Seal _____

Signature_____

DRAFT AGREEMENT

CONTRACT AGREEMENT BETWEEN Executive Engineer Chhattisgarh State Renewable Energy Development Agency (**CREDA RO**) Raipur AND M/s.....Represented byTHIS CONTRACT AGREEMENT against Bid No **2196/CREDA/ROR/ SOLAR PCU /2021-22 Dated : 28.07.2021** (also referred to as “Service Contract”) is made on theday of 2021 .

BETWEEN

- (1) Executive Engineer Chhattisgarh State Renewable Energy Development Agency (**CREDA RO**) Raipur a society incorporated under the laws Society Registration Act 1973 , (1973 , Sr. No. 44) (with amendment from time to time) and having its Office at Maulshree Vihar, H.No. 23, VIP Road, Raipur and (hereinafter called “The Employer” and also referred to as “CREDA”)

And

- (2)Represented bya company incorporated under the laws of Companies Act 1956/2013/ Partnership firm/ Proprietorship firm/Consortium (as applicable, with amendment from time to time) and having its Principal place of business at.....and Registered Office at.....hereinafter called “The Contractor” and also referred to as “.....”

Whereas the contractor has offered to enter into contract with the said CREDA for the “Standardization of Rates for Supply of Solar hybrid Inverter/PCU, solar string Inverter/PCU anywhere in the state of Chhattisgarh”

Wide Bid No **2196/CREDA/ROR/ SOLAR PCU /2021-22 Dated : 28.07.2021** on the terms and conditions herein contained and the rates approved by the CREDA (Letter No.Dated annexed here to) have been duly accepted and where as the necessary security deposit shall be furnished in accordance with the provisions of the Bid 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 from..... to or completion thereof, until this Contract shall be determined by such notice as is hereinafter mentioned, safely carryout, by means of labours 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 supply of “**Solar string Inverter/PCU**” as described in Bid documents. (annexed to the agreement).
- 2) The NIT (Notice Inviting Bid), Corrigendum to NIT, Notices, Bid documents (Qualifying, Technical and Financial), approved rates annexed hereto and such other additional particulars, undertaking, instructions, general conditions of contract, Scope of work, Technical specifications of Solar inverters and Annexures therein, engineering documents, detailed specifications of BOS , so far they relate to the Bid. **2196/CREDA/ROR/ SOLAR PCU /2021-22 Dated : 28.07.2021** 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 Bid conditions.
- 4) The Engineer in Charge or his authorized representative (s) shall be entitled at all reasonable times to inspect and supervise and test during commissioning. Such inspection will not relieve the eligible bidder from their obligations under this contract.

- 5) Material can be inspected before dispatch or in transit by the authorized representatives of CREDA at the factory at the cost of the eligible bidder, if desired by CREDA. CREDA reserves right to inspect the material at Godown / Temporary Stores before dispatch and also at works sites.
- 6) CREDA shall deduct TDS for Income Tax, applicable cess on Civil Work etc. under various acts and deposited with the appropriate authority. Costs and taxes before execution of agreement with CREDA so as to ensure tax deposition as per Government Rules accordingly.

7) ELIGIBLE SYSTEM INTEGRATOR'S DEFAULT LIABILITY -

CREDA may by written notice of default to the eligible bidder, terminate the contract in circumstances detailed hereunder -

- (a) If in the opinion of the CREDA, the eligible bidder fails to complete the supply within the time specified in the supply Order or within the period for which extension has been granted by CREDA to the eligible bidder.
- (b) If in the opinion of CREDA, the eligible bidder 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 bidder or agency upon such terms and in such a manner as it may deem appropriate and the eligible bidder shall be liable to CREDA for any additional costs or any losses caused to CREDA as may be required for the supply of solar Inverter/PCUs 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 bidder 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.

8) FORCE MAJEURE -

The eligible bidder 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 Inverter/PCUs etc. by the related vendors, to whom the Bidder has placed order, shall also not be treated as force majeure.

9) REJECTION OF WORKS -

In the event of any of the material supplied/work done by the eligible bidder is found defective in material or workman ship or otherwise not in conformity with the requirements of this contract specifications, CREDA shall either reject the material and/or work and advise the eligible bidder to rectify the same. CREDA may impose penalty for such rejection up to the 200% cost of the entire system. Habitual/repeated offenders shall be black listed/debarred to participate in the any Bid/ Activity of CREDA till further orders. The eligible bidder on receipt of such notices shall rectify or replace the defective material and rectify the work free of cost. If the eligible bidder fails to do so CREDA may -

- a) At its option replace or rectify such defective materials and/or work and recover the extra cost so involved from the eligible bidder plus **15%** service charges of the cost of such rectification, from the eligible bidder and/or terminate the contract for balance work/ supplies with enforcement of penalty as stated above.
- b) Defective materials/workmanship will not be accepted under any conditions and shall be rejected outright without compensation. The eligible bidder shall be liable for any loss/damage sustained by CREDA due to defective work with enforcement of penalty as stated above.

10) EXTENSION OF THE TIME -

If the completion of installation is delayed due to any reason beyond the control of the eligible bidder, the eligible bidder 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 or may not agree to extend the contract/delivery date of the inverter/PCU as may be reasonable but without prejudice to other terms and conditions of the contract.

11) PENALTY FOR DELAY IN COMPLETION OF CONTRACT -

If the eligible bidder fails to complete the assigned work within the schedule time specified in the Work 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 supply 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 Inverter/PCUs allocated to bidders shall be done time to time by CREDA and if the progress of supply is found unsatisfactory, the allocation of entire remaining supply or their part of can be re-allocated to other bidder as per discretion of CREDA.

12) PENALTY DUE FROM THE ELIGIBLE BIDDER-

All costs of damages and delays for which the eligible bidder is liable to the CREDA will be deducted from any money due to the eligible bidder including the security deposit of any project under CREDA.

13) ELIGIBLE SI'S RESPONSIBILITY -

Notwithstanding anything mentioned in the specifications of subsequent approval or acceptance of the Inverter/PCU by CREDA, if any, the ultimate responsibility for satisfactory performance of the entrusted work shall rest with the eligible bidder. If in any case the eligible bidder 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 risk and cost of eligible bidder.

14) 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 bidder is responsible for the cause thereof or from any cause whatsoever, the eligible bidder shall at his own cost rectify/replace such loss or damage, so that the permanent work conforms in every respect with the provision of the contract to the satisfaction of the Engineer. The eligible bidder 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.

15) RESPONSIBILITY TOWARDS THE WORKMAN OR OUTSIDERS -

- The eligible bidder shall have to take insurance coverage from any authorized Insurance Company against Workmen compensation due under Workmen Compensation Act and submit copy of the insurance document before issuance of Work Order.
- The eligible bidder 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 bidders. The eligible bidder shall also be responsible for any claims of the workers including PF, Gratuity, ESI & other legal obligations.
- Bidder shall have to submit JCCs within **60 days** after supply of Inverter/PCUs in District Office of CREDA.

- 16) Contractor shall provide 05 years warranty in supplied solar Inverter/PCU from the date of supply as per the terms & conditions prescribed in the Bid No. 2196/CREDA/ROR/ SOLAR PCU /2021-22 Dated : 28.07.2021
- 17) **DECLARATION OF CONFLICT OF INTEREST** - The bidder hereby declares that nobody connected with or in the employment of CREDA is not/shall not ever be admitted as partner in the contract.
- (a) The contractor shall arrange insurance coverage for the materials and Inverter/PCUs at his/ for the supply under execution and successful commissioning and subsequent handover to the CREDA. The 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.
 - (b) Bidder shall arrange for insurance coverage for Inverter/PCUs during COMC period i.e. for 05 years from the date of supply. Insurance should cover for damage and theft. In case of such incidence, bidder must replace the lost/damaged part within 7 days.
- 18) The bidder shall abide by the terms and conditions, rules, guidelines, construction practices, safety precautions etc. stipulated in the Bid document including any correspondence between the bidder and the CREDA having bearing on execution of supply and payments of supply to be done under the contract.
- 19) The Bidder 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.
- 20) All the taxes deductible at source as per Acts in vogue shall be recovered by CREDA and deposited with the appropriate authorities
- 21) Contractor agrees to abide by any decision/instruction passed by the appropriate authority under Anti-profiteering rules notified by the state/central government under GST act.
- 22) Any dispute arising out of the contract shall be subject to the jurisdiction of Hon'ble High Court of Chhattisgarh.

"Herewith everything and anything contained in Bid document no. 2196/CREDA/ROR/ SOLAR PCU /2021-22 Dated : 28.07.2021 is part of this agreement which has been dully signed by both bidder and authorised signatory of CREDA".

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

Signed & sealed on behalf of the above

Named contractor

Name: Name: **J.N. Baiga**

Designation: Designation: **Executive Engineer**

Signed on behalf of CREDA

Witness:

1. Name:-.....

2. Name:-.....

Address:-.....

Address:-.....

3.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/ : Yes/No
Certificate furnished
- 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

NAME IN FULL

DATE:

DESIGNATION/STATUS

FIRM/COMPANY SEAL

4.SCHEDULE - II

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. **PAYMENT TERMS:**
Whether CREDA's terms of payment is acceptable to Bidder : Yes/No
05. **COMPLETION PERIOD OF WORK:**
Whether Bidder is agreeing for completion period of work as Specified in the Bid : Yes/No
06. **PENALTY CLAUSE:**
Whether agreeable to CREDA's Penalty Clause : Yes/No
07. Whether agreeable to CREDA's clause of warrantee period : Yes/No
08. **SECURITY DEPOSIT:**
Whether Security Deposit clause is understood : Yes/No
09. Indicate State, Central Sales Tax Registration NumberState : 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)
10. Please mention whether rates offered are applicable for part quantities. : Yes/No

PLACE:

DATE:

SIGNATURE OF BIDDER

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

5.SCHEDULE - III

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 completion certificate received during last 2 years : Yes/No
from other State Nodal Agency or from other Organization for supply
of inverters (if yes, give details) enclosed.
03. Whether pamphlets/technical details literatures along with drawing etc. : Yes/No
furnished with the offer (if yes, give details)
04. 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.
05. Whether the Bidder has furnished details of manufacturing : Yes/No
equipments and short history of plant (if yes, give details)
06. Whether details of manufacturing process furnished with offer. : Yes/No
(if yes, give details)
07. 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

6.SCHEDULE - IV TECHNICAL DEVIATIONS

From,
Bidder Name & Address -

To,
**The EE,
CREDA, RO,
Raipur**

Sub – Technical Deviations.

Dear Sir,

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

S.No.	Condition and deviation	Clause no of Bid document	Page no of Bid document	Statement of Variation

- 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 Bid.

PLACE

DATE

SIGNATURE OF BIDDER

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.

7.SCHEDULE - V

PAST EXPERIENCE

From:

Bidder's Name & Address -

To,

The EE,

CREDA, RO,

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

SIGNATURE OF BIDDER

DATE

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

NOTE - Photocopy of the completion certificate received from other State Agencies/Govt. Undertakings etc. should be enclosed.

8.ANNEXURE – II

**(EXPERIENCE CERTIFICATE ON THE OFFICIAL LETTER HEAD OF CONCERNED
GOVERNMENT DEPARTMENT/ PRIVATE FIRM WITH SEAL AND SIGN BY AUTHORIZED
SIGNATORY)**

Ref. No.....

Date.....

CERTIFICATE OF SUPPLY OF SOLAR INVERTER/PCUS

This is to certify that **Name of Bidder, Address of Registered Office** has successfully completed the supply ofNos. solar Inverter/PCUs against various Sanction of Name of Agency at various locations in.....State, as per following details –

Nos of Solar Inverter/PCUs	Year	Total capacities of solar Inverter/PCUs	Remarks
Total -			

The workmanship and performance of the above Inverter/PCUs are found satisfactory and are in successful operation.

**Seal & Sign
(Authorised Signatory)**

END