



Tender for Standardization of rates for, Supply, Installation & Commissioning of bio gas power Generator (10KW)



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

**Above Bio Diesel Plant, Near Energy Education Park,  
(VIP Road, Air Port Road), Raipur (C.G.)**

Website: <http://Creda.cg.state.gov.in>

Phone: 0837009918

**Tender Document No.: 23311/CREDA/Power Generator/17-18**

**For**

**Standardization of rates for Supply, Installation &  
Commissioning of Power Generating Plant Capacity 10KW  
at GAUSHALA PINJARAPOL Distt. Rajnandgaon & similar  
works at CHHATTISGARH.**

To be submitted by 1:00 P.M. on 22.01.2018 in the office of **Chief Engineer,**  
**Above Bio Diesel Plant, Near Energy Education Park,**  
**VIP Road (Air Port Road), Raipur (C.G.)**

M/s.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Tenderer)

Date of Issue of Tender Form : \_\_\_\_\_

Money Receipt No. \_\_\_\_\_ Date \_\_\_\_\_ Amount ₹1000/- (one Thousand Only) if  
purchased from CREDA Office Raipur / download from our website.

<b>Pre-bid Meeting</b>	<b>: 19<sup>th</sup> January 2018 from 12:00 hrs</b>
<b>Last Date of Submission of Tender</b>	<b>: 22<sup>th</sup> January 2018 till 13:00 hrs</b>
<b>Opening of bids</b>	<b>: 22<sup>th</sup> January 2018 at 15:00 hrs</b>

Signature of Officer issuing the documents



## CONTENTS

S.No	<u>Description</u>	Page No
<u>PART - I : TECHNICAL BID</u>		
1	Notice Inviting Tender	
2	Check List	
3	Undertaking of the tenderer	
4	Instruction for tenderer	
5	General conditions of contract	
6	Terms & Conditions	
7	Scope of work	
8	Technical Specifications	
9	Schedule-I i) Part - A - General Information ii) Part - B - Commercial Information iii) Part - C - Technical Information	
10	Schedule - II - Technical Deviations	
11	Schedule -III - Past Experience	
<u>PART - II : FINANCIAL BID</u>		
12	Price Bid	
13	Agreement	
14	Annexure-1 (Part-I)	
15	Annexure-1 (Part-II)	
16	Annexure-1 (Part-III)	
17	Annexure-1 (Part-IV)	



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**CHHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY**  
**Above Bio Diesel Plant, Near Energy Education Park,**  
**VIP Road (Air Port Road), Raipur**  
**Website: <http://Creda.cg.state.gov.in>**

**Tender No. 23311/CREDA/Power Generator /2017-2018**

**Date 06/01/18**

**NOTICE INVITING TENDER**

CREDA invites sealed tenders for standardization of rates for the Supply, Installation & Commissioning of various capacities of biogas Power Generating plant of 10KW Capacity FOR Gaushala Pinjarapol, Dist.-Rajnandgaon from the manufacturers/contractors/suppliers as per following:

S.No	Description of Items/Work For Purchase through	EMD
1	Supply, Installation & Commissioning of biogas Power Generating plant 10KW	₹15,000/-

Tender forms can be purchased up to 19.01.2018 during office hours from this office on payment of ₹ 1000/- (One Thousand Only) in cash or D/D in favour of CREDA, Raipur. Last date of depositing the sealed tender forms is **22.01.2018 till 1.00 P.M.** Technical bid to be opened at 3.00 P.M. on 22.01.2018 in the office of Chief Engineer, Above Bio Diesel Plant, Near Energy Education Park, (VIP Road, Air Port Road), Raipur (C.G.). Financial bid may be opened after scrutiny of technical bid on the same day or may be other day, as per the decision of Tender Committee. If the tender is downloaded from website or received electronically then the tenderer should enclose a demand draft of ₹1000/- (One Thousand Only), as tender document cost, along with the tender document during tender submission. Tenderer have to take part in pre - bid meeting held at our office on 19.01.2018 positively.

Parties interested to purchase the tender must provide past experience as per Schedule - III. Contractors, Suppliers & Manufacturers who have installed & commissioned successfully at **least 03 Nos. & above Biogas Power Generator** and submit the order copy signed by a competent authority in support, are only eligible.

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

**Chief Engineer, CREDA**



### Check List

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

S.	Description	Attache	Not
1	Copy of registration / renewal of CREDA		
2	Earnest Money		
3	Tender Document Fee (proof of submission)		
4	The original document duly signed & sealed on each page, as a confirmation of acceptance of Terms & Conditions (T&C)		
5	A Copy of registration/CST/PAN S.T. Clearance Certificate/ <b>GST registration</b>		
6	Details of similar work done in last three years along with copies of the orders and certificates from the customers, their address phone/fax/email as per the Tender Evaluation Criteria and of the tender document.		
7	Details of technical staff available (Brief Bio-data of key personnel be given) of the tender document.		
8	Technical details and specifications highlighting salient features of the systems with test report etc.		
9	Declaration of the supplier about any relatives working with CREDA.		
10	Deviations, if any, from the specifications, terms & conditions		
11	Whether validity of your tender is confirmed as per the document.		
12	Availability of service facilities in Chhattisgarh.		

#### Details of EMD & Tender Document Fee Attached

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

(Sign & Seal of the Manufacturer)



### UNDERTAKING OF THE TENDERER

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

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

A sum of ₹\_\_\_\_\_ is hereby forwarded as earnest money in the form of crossed demand draft. If I/We, fail to commence or complete the work ordered in specified time I/We agree that the CREDA shall, without prejudice to any other right or remedy, be at liberty to forfeit the said Earnest Money absolutely. The said Earnest Money shall be retained by CREDA towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be required by CREDA. I am also aware that the rates quoted by me/us for market mode shall not be applicable for Govt. supplies for getting direct order from the Govt. dept.

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

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

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

Dated:

Place:

Witness

Signature:

Name:

Postal Address:

Signature

Name of Tenderer with seal



### TENDER FORM

The undersigned hereby tender and offer (subject to the Agency's conditions of tendering) to the Chhattisgarh State Renewable Energy Development Agency (CREDA) for Supply, Installation & Commissioning of Biogas Power Generating Plant Capacity 10KW at Gaushala Pinjarapol Distt. Rajnandgaon Chhattisgarh and works which are described or referred to in the Details of Technical Particulars attached to tender document and its enclosure. The details of Technical Particulars, copies of which are annexed here to and which under the terms there of are to be supplied, executed and done by the contractor and to perform and observe the provisions and agreements or the part of the contract contained in or reasonable to be referred from the said tender documents for the same and at the rates sets out in Schedule-I annexed hereto.

The questionnaire enclosed with this tender document has been fully answered and is enclosed herewith (if the questionnaire is not answered in full, the answer to various question may be taken so as to be advantageous to CREDA unless contrary mentioned in the body of the tender). Complete Tender document is also enclosed herewith duly signed with seal on every page by the undersigned.  
Signed this.....day of .....2018.

Yours faithfully,

TENDERER'S SIGNATURE  
(With seal)

TENDERER'S ADDRESS



### INSTRUCTIONS FOR TENDERER

1. CEO, CREDA, HO, Raipur invites sealed offers for standardization of rates for Supply, Installation & Commissioning of Biogas Power Generating Plant Capacity -10KW with F.O.R at Gaushala Pinjarapol Distt. Rajnandgaon Chhattisgarh from the experienced manufacturers as per specification attached.
2. Tenders should only be dropped in the tender box kept in the office of Chief Engineer, CREDA, Raipur by 1.00 P.M. on **22.01.2018** Tenders received after the time and dates shall not be considered. Covers should invariably be super-scribed Supply, Installation & Commissioning of Biogas Power Generating Plant Capacity-10KW with F.O.R at Gaushala Pinjarapol Distt. Rajnandgaon Chhattisgarh due on 22.01.18. Earnest Money should be deposited in the form of **Demand Draft drawn in favour of CREDA, Raipur payable at Raipur**. The tenders should be submitted by 1.00P.M. on **22.01.2018**. The technical bid of the tenders will be opened at 3.00 P.M. on **22.01.2018** in the office of Chief Engineer, Above Bio Diesel Plant, Near Energy Education Park, (VIP Road, Air Port Road), Raipur (C.G.). The price bids of the technically eligible tenderers may be opened after the scrutiny of the technical bid on the same day or any other day as per the decision of the tender committee, which shall be communicated after the opening of Technical Bid.
3. **Eligibility and qualification criteria :**

The bidder shall meet the following requirements:

  - (i) The bidder should have **an experience** of Supply, Installation & Commissioning of Biogas Power Generating Plant Capacity 10KW of minimum quantity 3 nos & above at anywhere in India which are in satisfactory working condition from the period of commissioning.
  - (ii) **The bidder company shall have at least one service cum retail outlet center in Chhattisgarh for sale & service of tendered Item/systems.** CREDA shall verify the same for the eligibility of the tenderer & if not found as per the norms, the eligibility of the tenderer may be rejected & the tender may be de-barred for doing any business in Chhattisgarh through CREDA.
  - (iii) The net worth of the bidder during each of the last three consecutive years must be positive.
  - (iv) Bidder shall furnish:
    - A All Statutory registration like **GST registration no.**/any relevant earlier registrations.
    - B The bidder shall submit along with bid document Audited Balance Sheets and Profit & Loss Account for the last three consecutive financial years.
    - C The documentary evidence for meeting the eligibility criteria must mandatorily be submitted along with offer.
4. At the time of opening E-3 every tenderer shall submit details of their service network in Chhattisgarh or must ensure to establish such centre. If CREDA feels that the service network details submitted are not adequate, the financial bids may not be opened. Without the details of service network like address of local office, staff, phone numbers etc. the tenderer shall not be qualified for opening of financial bid. Successful tenderers shall have to maintain a service centre / station for minimum period of five years in the State of Chhattisgarh.



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

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5. FOURPART BID:  
a) EMD  
b) Tender form & Technical details and other documents (Technical bid)  
c) Price Bid

Sealed Tenders are invited in four-part basis.

One envelope (E-2) containing the E.M.D. (Tender fees also, if applicable) clearly super-scribed EMD on Top,

Second envelope (E-3) should contain the tender form with required documents (Technical details and other documents) and technical details of the items for which price are being quoted, should be clearly marked as Technical Bid.

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

\*NOTE: Only those price bids should be submitted for which tenderer is quoting the price & also the technical details are being submitted by the tenderer.

All these envelopes shall be kept in sealed cover (E-1) addressed to the Chief Engineer , CREDA, HO, Raipur with the name of work, tender specification number, due date of tender, amount & mode of E.M.D. and name of the tenderer super-scribed on the cover. The envelope of price bid will be opened only if other three envelope's contents are found as per requirement. As per amendment the documents related to techno- commercial details & other eligibility documents of all the products for which rates are being quoted should be submitted. Price bids as stated below should be submitted by 1.00 P.M. on 06.10.17

E-1- Sealed Main Tender Envelope which will contain three sealed envelope (E-2 + E-3 + E-4)

E-2 - Sealed Envelope which will contain EMD/EMDs & its details and tender fees.

E-3- Sealed Envelope which will contain Tender form & Technical details and other related documents (Technical Bid).

E-4 -Sealed Envelope which will contain sealed envelopes of Price Bid.

On the top of each of these sealed envelopes the name of the product should be clearly typed or hand written, for which the rates are quoted. Only those price bids should be submitted for which rates are being quoted. Tenderer should not submit any blank price bid. Tenderer should enclose the Technical & Commercial details and other related documents of only those items for which the rates are being quoted in envelope E-4.

All the envelopes should have clear headings, stating the tender number & the ITEM for which rate is quoted.

6. When tenders are delivered by special messenger, it should be deposited in the tender box kept in the office of Chief Engineer, CREDA, H.O, Raipur till due date and time. Nobody is authorized to receive or grant receipt for tender delivered.
7. Full descriptive particulars and complete specifications should accompany the offer. Offers should be kept open for acceptance for at least twelve months from the date of opening. Those who do not agree for validity of twelve months will do so at their own risk and no request for extension will be intimated from this office. However if due to circumstances beyond control, tenderers are advised to extend the validity, they shall not be permitted to revise their rates, offer any rebate or concession, while extending the validity which may materially result in any reduction or increase in the computed price of their original offer.
8. The terms and conditions and specifications mentioned in tender specifications shall be binding on the tenderers and no condition or stipulation contrary to the conditions





## Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

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shall be applicable. Please note that the tenderers who do not accept terms and conditions stipulated in this tender specifications, their offers shall be liable to be out rightly rejected without assigning any reason whatsoever.

9. Each page of tender document & enclosures shall be signed by the tenderer and affix the seal. All the pages of the documents issued must be submitted along the offer.
10. CREDA reserves the right (i) to reject any or all tenders in part or full or to accept any tender considered advantageous to CREDA whether it is the lowest tender or not and (ii) to split the quantities against the tender on more than one firm for the same items/ work. (iii) to reject the eligibility of any one or more tenderer out of two or more who have submitted the documents against the eligibility criteria claiming for same items/systems. Under such condition the tenderer who has supplied/ installed / manufactured the system shall be consider eligible. No reason will be assigned by CREDA for this and will be binding on the tenderers.
11. In case of any corrections / alterations done in the tender, the tenderer should sign the same otherwise tenders may not be considered.
12. Offers through Messenger Apps/ Fax /Emails or open offer received will not be considered and summarily rejected.
13. All the tenderers shall essentially indicate the break-up of prices as shown in Tender form. In case any of the charges are not included in the quoted prices, the same shall be clearly shown as extra, indicating specifically the rate/scale of such charges.

14 **EARNEST MONEY :**

Each tenderer should submit an earnest money required amount prior to submission of quotation in a separate envelope. The tenders not accompanied with earnest money or accompanied with inadequate earnest money will summarily be rejected and returned unopened. EMD can in the form of single bank draft on Schedule Bank for which rates are being quoted, provided the details of the EMD submitted is explained on the covering letter attached with the bank draft. EMD is ₹ 15,000 /-(Fifteen Thousand Rupees Only) for Supply, Installation & Commissioning of Biogas Power Generating Plant Capacity -10KW.

15 **FORM OF EARNEST MONEY DEPOSIT:**

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

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

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



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

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

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

**18. PRICE:**

The prices quoted should be firm and F.O.R. Destination including GST, various duties and any other incidental charges, loading & unloading **etc.**

**19. SPECIFICATION**

Tender for Standardization of rates for Supply, Installation & Commissioning of 10 KW Capacity Biogas Power Generator engine must be operated on 100% bio gas and must be confirming Latest IS/BIS standards. Other components of Power Generator such as alternator, control panel scrubbers etc. must be confirming Latest IS/BIS standards.

**20. JURISDICTION OF THE COURT:**

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

Place:

Signature  
Name of Tenderer with seal



## GENERAL CONDITIONS OF CONTRACT

### **1. DEFINITION OF TERMS:**

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

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

The "Engineer in charge" shall mean the Engineer or Engineers authorized by Chief Engineer, CREDA HO Raipur for the purpose of this contract. CREDA Engineer shall mean any Engineering person or personnel authorized by CREDA to supervise Solar Photovoltaic Home Lighting System & Street Light and Solar Generator, Biogas Power projects (Under NBMMP).

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

"CREDA Purchase" shall mean the purchases or turnkey works order which is being placed by CREDA.

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

### **2. CONTRACT DOCUMENT:**

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

### **3. MANNER OF EXECUTION:**

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



**4. CONTRACTORS DEFAULT LIABILITY:**

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

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

**5. FORCE MAJEURE:**

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

**6. REJECTION OF WORKS:**

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

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

**7. WARRANTEE PERIOD:**

The work done by the contractor as per specifications should be warranted for satisfactory operation and against any defect in material for a period of twenty four months from the date of Supply, Installation & Commissioning of Biogas power Generating Plant Capacity - 10KW. The above warrantee certificate shall be furnished in triplicate to CREDA at the time of billing. Any defect noticed during this period should be rectified by the supplier free of cost upon written notice provided such defects may be due to bad workmanship or bad materials used.



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

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**8. TERMS OF PAYMENT:**

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

- a) 90% of the value of the work order along with the value of taxes and duties after supply or supply, installation & satisfactory commissioning (whichever is applicable) of the system as per norms.
- b) Balance 10% as SD after twenty four months or against Bank Guarantee or TDR pledged to "CREDA" of equivalent amount valid for twenty four months.

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

If the contractor fails to complete the order within the phased delivery schedule specified in the work order or any extension granted there to, CREDA will recover from the contractor as penalty a sum of one percent of the contract price of the work each calendar week delay subjected to a maximum of 10% (Ten percent) of the contract price of work. After 10% penalty that work order treated as cancelled.

**10. SECURITY DEPOSIT:**

The contractor shall furnish security deposit either in form of TDR drawn in favour of CREDA, Raipur or in the form of Bank Guarantee from Nationalized/ Scheduled Bank for an amount of 10% value of the order for faithful performance of the order and to cover the warranty period. The SD shall be kept valid for period of twenty four months. In the event of extension of completion date or warranty period the validity of the bank guarantee shall also be suitably extended. The bank guarantee shall be executed in stamp paper worth ₹250/- or as per the prevailing legal requirements. No interest shall be payable on the Security Deposit.



## TERMS AND CONDITIONS

1. The Bidders /contractors shall supply all technical literature and drawing considered necessary for the installation, operation and maintenance of the equipment and its fittings. These shall essentially include:-
  - a) Drawing showing over all dimensions and all other details including Sectional view of the equipments.
  - b) List of parts with reference to nos.
  - c) Manual of instructions for the operation, maintenance and repairs/equipment and special fittings, if any.
  - d) Checking methods and schedule for cleaning the system.
  - e) Any other relevant technical data which would be of assistance for efficient operation and maintenance of the system including energy savings etc.
2. The Bidders /contractors shall train purchaser's personnel for the operation and maintenance of the equipment for a particular period, mutually agreed between the supplier and the customer.
3. The Bidders /contractors will have to undertake repair of the system installed by them, in case of any defect arising out of any point of time. Bidders /contractors will attend the minor complaints within 48 hours of receiving the complaint otherwise penalty to be recovered per day as decided by the Engineer-In-charge.
4. The Bidder shall guarantee the performance of the system for the rated output for which the system is designed. If it is not achieved, the necessary additions/modifications including installation of extra works shall be done by the supplier without charging any extra price. However, the purchaser reserves the right to have this job completed for achieving the rated output by other Bidders /contractors after serving 15 days notice to the original Bidders /contractors at his cost & risk.
5. All the elements of the system which fail due to manufacturing defect within the period of guarantee shall be replaced by the Bidders /contractors at free of cost.

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



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

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**PLEASE NOTE:**

Tenderer shall have to submit the tender which is duly signed on each page by authorized person. Further to this tenderer should have to use & attach only following portion of the tender document while quoting of the rates, which are duly signed on each page by the authorized person:

1. Technical specifications of only those products for which the rates are quoted by the tenderer.
2. Price bids of only those products whose rates are being quoted by the tenderer.

Please note the rest of the details mentioned in the tender document regarding the submission of the documents, EMD, Tender fees etc. should mandatory be followed, as described in "Instructions for Tenderers".



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

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**SCOPE OF WORK:**

Supply , Installation & Commissioning of Biogas power generating Plant having capacity of 10 KW with all components at Gaushala Pinjarapol Distt. Rajnandgaon Chhattisgarh, on turnkey basis.

The bio gas power Generating engine must be operated on 100% bio gas and must be confirming to Latest IS/BIS standards. Other components of bio gas power plant such as alternator, control panel & scrubbers etc. must be confirming to Latest IS/BIS standards.





# TECHNICAL SPECIFICATIONS



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

**Supply, Installation & Commissioning of  
Bio gas Power Generating Plant  
Capacity -10KW  
at Gaushala Pinjarapol Distt. Rajnandgaon Chhattisgarh**

S. No	Part / Component / Parameter	Specifications
1.	Supply, Installation & successful Commissioning of Biogas engine with generator/alternator with scrubber, control panel & other accessories etc. (Capacity - 10 KW)	<b>Annexure -1</b> Part1- Detail of specification of <b>10 kw Capacity</b> generator/alternator with engine. Part 2- Specification of Control Panel Part 3- Detail of Generator foundation. <b>Annexure -2</b> Part 4 – Schedule of items & approx Quantity of measurement for DG Room (optional)

Place:

Signature  
Name of Tenderer with seal



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

**SCHEDULE - I**  
**PART 'A': GENERAL INFORMATION**

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

1. Name & Address of the Bidder :
2. Name & Address of the firm/Company etc. :
  - a) Registered office :
  - b) Factory/works address :
  - c) Fax Nos. :
  - d) Telephone / Mobile Nos. :
  - e) Email id :
3. Confirm whether tenderer is Manufacturer : Yes/No
4. 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 sofar :
5. Whether the firm is SSI Unit of Chhattisgarh State: : Yes/No
  - a) If yes, write registration No. :
  - b) Whether documentary evidence Regarding registration enclosed :
  - c) Items for registration :
  - d) Period of registration :
  - d) Whether latest copy Competency/ Certificate furnished : Yes/No
6. Whether the firm is 100% owned by :
  - a) State Government : Yes/No
  - b) Central Government : Yes/NoIf yes, Notification/certificate issued from : Yes/No  
The competent authority to this effect is Enclosed
7. a) Whether the bidder is old participant with CREDA : Yes/No  
b) If yes, whether documentary Evidence is enclosed. : Yes/No
8. Any other information that bidder may like to give in order to highlight his bid : If yes, give details

PLACE :

DATE:

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



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

**SCHEDULE – I**

**PART 'B' : COMMRCIAL INFORMATION**

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

1. i) Earnest Money Details : Bank draft/Bankers cheque payable to CREDA, Raipur
- ii) Amount of E.M.D. & full details : `.....
- iii) If exempted, state whether the bidder / Fully Owned State/Central Govt. Unit : SSI Unit of C.G.
- iv) Reference of documentary evidence regarding exemption for NDPBGC enclosed. : Yes/No
2. Whether the offer is valid for 6 months from the date of opening of commercial/ technical bid. : Yes/No
3. A) Concessional Sales Tax : a) Concessional Central sales Tax/ Commercial Tax against declaration form.  
b) Concessional State Sales Tax/ Commercial tax against declaration form.
- B) Rate of Sales Tax on the date of bid: (exclusive in the rate quoted)
4. DISCOUNT:
  - a) Whether any rebate/discount is offered. : Yes/No
  - b) If yes, whether the rebate is unconditional/conditional :  
Rate/amount of rebate/discount :
  - c) If conditional State condition :
5. PAYMENT TERMS:  
Whether CREDA's terms of payment is acceptable to tenderer : Yes/No
6. COMPLETION PERIOD OF WORK:  
Whether tenderer is agree for completion period of work as specified in the tender : Yes/No
7. PENALTY CLAUSE:  
Whether agreeable to CREDA's Penalty Clause : Yes/No
8. Whether agreeable to CREDA's clause of warrantee period : Yes/No
9. SECURITY DEPOSIT:  
Whether Security Deposit clause is understood : Yes/No
10. Indicate State, Central Sales Tax Registration Number on **GST Registration No.** : State  
(Please Note that in case of non-registration with Sales Tax Department Purchase Tax as admissible shall be deducted by the Purchaser from the Bills of the supplier) : Central
11. Whether photocopy of the clearance from Income Tax & Sales Tax Deptt. . Profit & loss Account and Turn over for last 3 years up to the last financial year have been enclosed. : Yes/No
12. Please mention whether rates offered are applicable for part quantities. : Yes/No
13. Copy of registration / renewal issued by CREDA : Yes/No

PLACE:

DATE:

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



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

SCHEDULE - I

PART 'C' : TECHNICAL INFORMATION

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

1. Whether material offered is exactly as per technical specification : Yes/No
2. Whether the copies of orders received during last 3 years from other State Nodal Agency or from other Organization for similar materials enclosed. : Yes/No  
(if yes, give details)
3. Whether performance certificate from such Organization regarding supplies is enclosed. : Yes/No  
(if yes, give details)
4. Whether pamphlets/technical details literatures along with drawing etc. furnished with the offer : Yes/No  
(if yes, give details)
5. Whether the tenderer agrees to furnish material test certificates in respect of chemical composition and physical properties from Govt./ Govt. approved lab with each batch of supplies. : Yes/No
6. Whether the tenderer has furnished details of manufacturing equipments and short history of plant : Yes/No  
(if yes, give details)
7. Whether details of manufacturing process furnished with offer. : Yes/No  
(if yes, give details)
8. 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 TENDERER

DATE :

NAME IN FULL  
DESIGNATION/STATUS  
FIRM/COMPANY/SEAL



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

SCHEDULE - II  
TECHNICAL DEVIATIONS

From  
Tenderer Name & Address -

To,  
The Chief Engineer ,  
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: -

Sl.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 TENDERER

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.



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

SCHEDULE - III

PAST EXPERIENCE

From:  
Bidder's Name & Address: -

To,  
The Chief Engineer,  
CREDA, HO,  
Raipur

Sub: - Performance/past experience.

Dear Sir,

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

Sl.No.	User's Name with complete Address	Contact No. Telephone/ Mobile No.	Order No. & Date	Ordered Quantity	Installed (Nos.)	Value of Order
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PLACE

SIGNATURE OF TENDERER

DATE

NAME IN FULL  
DESIGNATION/STATUS  
FIRM/COMPANY SEAL

\*NOTE: -Photocopy of the orders & performance reports received from other State Agencies/Govt. Undertakings etc. and Turn over of last 3 years should be enclosed.



PRICE BIDS  
FOR  
TO BE ENCLOSED  
IN  
ENVELOPE E-4





Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

PRICE BID

Power Generation Capacity (In KW.)				
Sr. No	Particular		Biogas Generator Capacity (10 Kw)	COMC charges for 5 consecutive years
1	Supply, Installation & Commissioning of Biogas engine with generator/alternator with scrubber, control panel & other accessories etc.	With optional (i.e. without DG room)		
		Without optional (i.e. with DG room)		

*Note: Before quoting the rates, kindly read all Annexures carefully.*

**Note: The rates shall be inclusive** of site visit expenses, supply with training, transportation, loading, unloading, pipeline, suitable burners complete etc. **all taxes** including excise duty, octroi, **GST** including warranty , other required arrangements etc. as per guidance of CREDA.

**Seal & Signature of the tenderer**



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

**Agreement**

This agreement is hereby made today the \_\_\_\_\_ day of \_\_\_\_\_ 2017 at \_\_\_\_\_ between M/s \_\_\_\_\_ a company/ firm registered under the companies Act, 1956 / Partnership Act/ \_\_\_\_\_ Act, having its registered office at \_\_\_\_\_ (hereinafter called as "Tenderer", the term which includes its successors, assigns and legal heirs), through \_\_\_\_\_ resident of \_\_\_\_\_ on one hand and Chhattisgarh State Renewable Energy Development Agency-CREDA registered under Societies Act having its Registered office at Chief Engineer, Above Bio Diesel Plant, Near Energy Education Park, (VIP Road, Air Port Road),Raipur (C.G.)(hereinafter called as "CREDA" the term which includes its successors, assigns and legal heirs) through Shri Shri S.M. Deshpandey, Chief Engineer, CREDA resident of Gitanjali Nagar, Raipur(C.G.), on the other hand on the following terms and conditions:-

- Whereas, the "CREDA" intends to standardize the rates for Supply, Installation & Commissioning of Biogas Power Generating Plant Capacity 10KW (hereinafter called as "Work") At Gaushala Pinjarapol Distt. Rajnandgaon Chhattisgarh had floated Tender No...../CREDA/IBP/2017-18 for Item Rate Tender & Contract for Supply, Installation & Commissioning of Biogas Power Generating Plant Capacity 10KW At Gaushala Pinjarapol Distt. Rajnandgaon Chhattisgarh. "Tenderer" had submitted their rates and agreed to supply/perform the "Work" to CREDA on the rates appended as under which shall form an integral part of this agreement, as per the terms and conditions of the tender already agreed upon, and,

Sl. No	Item	Rate (In ₹)
1.	Supply, Installation & Commissioning of Biogas Power Generating Plant Capacity 10KW as per specification.	

- Whereas, the rates quoted by the "Tenderer" are inclusive of all taxes, duties, levies, transport and all other incidental expenses F.O.R. at site and the "Tenderer" shall not increase the rates of the "Work" up to ONE year from the date of agreement and the rates mentioned as above shall be valid for a further period of Twelve months or more with mutual agreement, and,
- Whereas, the "Tenderer" is committed to execute the " Work " at the ordered site, on the rates already agreed upon, within the schedule mentioned in the Work/Supply orders that shall be issued from time to time, and,
- Whereas, it has been also agreed upon that during any disputes regarding interpretation of any of the clauses of this agreement, the decision of the "Chief Engineer, CREDA" shall be final and binding on both the parties,
- Whereas, it is agreed upon that all the terms and conditions of the tender and work/ supply orders which have already been agreed upon shall form part of this agreement, and,
- Whereas, it has also been agreed that for any disputes arising, the jurisdiction shall be the Courtsof Raipur,

In witness whereof, both the parties thereto, put their signatures below:

Witness

1-----  
2-----

For and on behalf of

"Tenderer"

For and on behalf of

"CREDA"



Tender for Standardization of rates for Supply, Installation & Commissioning of Biogas Power Generator 10KW

## Annexure-1(Part-I)

Specification for 100% Biogas Generator 10KW.

Supplying & Installation of 100% Biogas Generator Set of given Specification as below.

Make Perfect Gas Generator/ Kirlosker/ or any other suitable make.

BIOGAS GENERATOR PARTICULAR	SPECIFICATION
Engine Power @ 1500 RPM or >	10KW
Engine Stroke & Cylinders	4 Stroke & 3 Cylinder Engine
Ignition System	Maintenance Free Electronic Pointless Ignition
A.C. Alternator	3 Phase 415 Volt Double Bearing with Copper Fields
Governing System	Sensor Based Electronic Governing System
Fuel	Bio Gas
Gas Inlet System	Self Suction Low Pressure Gas Inlet System
Gas Valve	Electronic Solenoid Valve
Gas Filter (Specification attached)	Scrubber for Removing CO <sub>2</sub> /H <sub>2</sub> S/ Moisture. SPECIFICATION FOR CO <sub>2</sub> / H <sub>2</sub> S/ MOISTURE SCRUBBER :- Providing and fabricating Iron chips & mol sieve chemical base. Fabricated column of 6 inch diameter and 4 feet length with arrangement of water washing with normal water apply.
Cooling System	Water Cooled with High Capacity Cooling Radiators
Battery (5 Years Warranty)	12 V DC Battery, 150 AH
Warranty	Twenty four Months or 4000 Running Hours Which Ever is earlier.



## Annexure-1 (Part-II)

Supplying & Installation of required Control Panel with necessary Cable and Appliances as per requirement of site condition for 10KW Biogas Power Generation System(indicative list).

S. No.	Description of Item	Quantity No.
1	Indicator (RYB) [Viral /ISI Mark]	3
2	Ammeter [Nippon /ISI Mark] AC	1
3	Voltmeter [Nippon /ISI Mark] AC	1
4	Ammeter Selector Switch [L&T – Seltzer /ISI Mark]	1
5	Energy Meter 3Ph [Elymer /ISI Mark]	1
6	Energy Meter 1Ph [Elymer /ISI Mark]	1
7	HRC Fuse 16A /MCB [Havells /ISI Mark]	3
8	HRC Fuse 32A /MCB [Havells /ISI Mark]	3
9	HRC Fuse 63A /MCB [Havells /ISI Mark]	3
10	Contactora [ Starter Panel] for < 15 KVA (ISI Mark)	(3)
11	Relay [L&T /ISI Mark]	1
12	Timer [L&T /ISI Mark]	1
13	Cu bus bar 100A [Havells /ISI Mark]	1
14	Push Button On/Off	2
15	Contactora Add on block	1
16	On Load change over switch (100) [Havells]/HPL/ISI Mark	Power
17	On Load change over switch (100) [Havells]/HPL/ISI Mark	Light
18	Control Panel box @ Single Ph = 50 Kg ; 3 Ph Box 80Kg /ISI Mark	1
19	Earthing Pit complete for required capacity	3 nos.
20	Cable (ISI Mark)	As required

## Annexure-1 (Part-III)

Construction of Generator Foundation as per given details as per site requirements for required capacity (10 KW)

Size of Biogas Generator	Required Size of Foundation	Description of Foundation
Size of 10 KW	7' x5' x 1'	Brick Base & RCC Top of 4" Thickness Including Brick Work, Plaster, RCC 1:1.5:3, 8mm Bar, Plastering etc as per given details and drawings



## Annexure-2 (Part-IV)- optional

### Schedules of Items & Approximate Quantities of Measurements DG Room

Sr.No.	Items	Unit	Quantity
1	Excavation for foundation up to required depth including disposing up to 50 M lead and lift up to 1.50 M, laying, dewatering, compaction etc.	M <sup>3</sup>	6.00
2	Providing and laying PCC 1:3:6 in foundation including mixing, laying, removing finishing, shuttering and curing	M <sup>3</sup>	2.00
3	Extra for laying moorum filling under plinth	M <sup>3</sup>	5.00
4	Providing and laying RCC 1:1.5:3 in slab	M <sup>3</sup>	1.00
5	P/F formwork i.e. centering & shuttering for all heights for all RCC	M <sup>2</sup>	8.00
6	P/L Brick masonry in cement mortars 1:6 including finishing, curing etc. complete.	M <sup>3</sup>	8.00
7	Providing bending, placing and binding of reinforcement of various dia for RCC work as per details drawings and schedule including binding wires and supporting as required.	MT	0.06
8	Providing and laying 20 mm thick plaster where necessary under layer of 12 mm and 8 mm in cement mortars 1:4 including finishing, curing etc. complete.	M <sup>3</sup>	45.00
9	MS 10mm square bar grill at 100 x 100 mm spacing , 1.20 x 1.80 m	Kg	30.00
10	Rolling Shutter 1.75 x 2.75 m	Sq.m	5.00
11	White wash	Sq.m	45.00

Place:

Signature  
Name of Tenderer with seal



Tender for Standardization of rates for Supply, Installation & Commissioning of bio gas power Generator 10KW

The bidder may also quote their rates for items mentioned as in Annexure "A" below for supply, installation & commissioning any where in the state of Chhattisgarh including all taxes GST, accessories etc. :-

**Annexure "A"**

<b>Biogas Plant Capacity (In Cum.)</b>								
<b>Sl. No</b>	<b>Particular</b>	<b>Biogas Plant Capacity (In Cum.)</b>						
		<b>10</b>	<b>15</b>	<b>25</b>	<b>35</b>	<b>45</b>	<b>60</b>	<b>85</b>
1	Construction of Digester & Fabrication of Gas Holder of various capacity of Biogas Plants							
<b>Power Generation Capacity (In KW.)</b>								
<b>Sr. No.</b>	<b>Particular</b>	<b>Additional Details</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>8</b>	<b>10</b>	
2	Supply, Installation & Commissioning of Biogas engine with generator/alternator with scrubber, control panel & other accessories etc.	<b>With optional (i.e. without DG room)</b>						
		<b>Without optional (i.e. with DG room)</b>						

*Note: Before quoting the rates, kindly read all Annexures carefully.*

**Note: The rates shall be inclusive** of site visit expenses, supply with training, transportation, loading, unloading, pipeline, suitable burners complete etc. **all taxes** including excise duty, octroi, **GST** including warranty , other required arrangements etc. as per guidance of CREDA.

<b>COMC Charges on Biogas Plant Capacity wise (In Cum.)</b>								
<b>Sl. No</b>	<b>Particular</b>	<b>Biogas Plant Capacity (In Cum.)</b>						
		<b>10</b>	<b>15</b>	<b>25</b>	<b>35</b>	<b>45</b>	<b>60</b>	<b>85</b>
1	COMC Charges on Biogas plants along with suitable generators for 5 consecutive year							

**Seal & Signature of the tenderer**



Tender for Standardization of rates for Supply, Installation & Commissioning of bio gas power Generator 10KW

The bidder may also quote their rates for items mentioned as in Annexure “B” below for supply, installation & commissioning any where in the state of Chhattisgarh including all taxes GST, accessories etc. :-

**Annexure “B”**

<b>BG Plant Capacity</b>			
<b>Sr. No</b>	<b>Particular</b>	<b>Biogas Plant Capacity (85 Cum.)</b>	<b>COMC charges for 5 consecutive years</b>
1.	Construction of Digester & Fabrication of Gas Holder of various capacity of Biogas Plants		
<b>Power Generation Capacity (In KW.)</b>			
<b>Sr. No</b>	<b>Particular</b>	<b>Biogas Generator Capacity (10 Kw)</b>	<b>COMC charges for 5 consecutive years</b>
1.	Supply, Installation & Commissioning of Biogas engine with generator/alternator with scrubber, control panel & other accessories etc.	With optional (i.e. without DG room)	
		Without optional (i.e. with DG room)	

*Note: Before quoting the rates, kindly read all Annexures carefully.*

**Note: The rates shall be inclusive** of site visit expenses, supply with training, transportation, loading, unloading, pipeline, suitable burners complete etc. **all taxes** including excise duty, octroi, **GST** including warranty, other required arrangements etc. as per guidance of CREDA.

**Seal & Signature of the tenderer**



Tender for Standardization of rates for Supply, Installation & Commissioning of bio gas power Generator 10KW

The bidder may also quote their rates for items mentioned as in Annexure “C” below for supply, installation & commissioning any where in the state of Chhattisgarh including all taxes GST, accessories etc. :-

**Annexure “C”**

Sl. No	Particular	Biogas Plant Capacity (In Cum.)					
		10	15	25	35	45	60
1.	Construction of Digester & Fabrication of Gas Holder of various capacity of Biogas Plants						
<b>Power Generation Capacity (In KW.)</b>							
				3	4	5	8
2.	Supply, Installation & Commissioning of Biogas engine with generator/alternator with scrubber, control panel & other accessories etc.	With optional <b>(i.e. without DG room)</b>					
		Without optional <b>(i.e. with DG room)</b>					

*Note: Before quoting the rates, kindly read all Annexures carefully.*

**Note: The rates shall be inclusive** of site visit expenses, supply with training, transportation, loading, unloading, pipeline, suitable burners complete etc. **all taxes** including excise duty, octroi, **GST** including warranty, other required arrangements etc. as per guidance of CREDA.

<b>COMC Charges on Biogas Plant Capacity wise (In Cum.)</b>							
Sl. No	Particular	Biogas Plant Capacity (In Cum.)					
		10	15	25	35	45	60
1	COMC Charges on Biogas plants along with suitable generators for 5 consecutive year						

*Note: Before quoting the rates, kindly read all Annexures carefully.*

**Seal & Signature of the tenderer**