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GST-23AAAAJ0485D1Z6  
PAN- AAAAJ0485D

Tender Ref No:1628/CFF BANDOL/ENGG/2024

Date. 05-06-2024

## **TENDER DOCUMENTS**

**YEAR-2024**

**Tender for Supply and Installation of Cattle feed Plant Boiler Chimney**

### **INDEX**

Schedule I	:	General terms & conditions
Schedule II	:	Material , Specifications & Scope of work
Schedule III	:	Tenderer's details in Form A& Form B.
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Last date & time for purchase of tender form	:	13.06.2024 upto 12:30 pm.
Last date & time of submission of Tender	:	13.06.2024 upto 03:00 pm.
Date & Time of opening of tenders	:	14 .06.2024 at 03:00 pm.

**CHIEF EXECUTIVE OFFICER**  
**Jabalpur SahakariDugdhSanghMaryadit**



Tender Ref 1628 /CFF/Bandol / 2024/Jabalpur

Date.05-06-2024

### Short Tender Notice

Online (E Tender) tenders are invited for Supply/Erection & Commissioning of boiler chimney from reputed Manufacturers/Authorized suppliers/Channel Partners. Bidder shall have to submit their bids online and upload the relevant documents as per time schedule

Sr. N	Description of the Work	Quantity	EMD VALUE (Rs.)	TENDER FEE (Rs)
1	<b>Supply/Erection and Commissioning of Boiler Chimney</b>	01 Nos	30000.00	1000/- (Non Refundable)

- Tender document can be purchased online only from <http://mptender.gov.in> by making an online payment. The tender is available for **purchase/download** from 07.06.2024, 12.30 pm
- **Last date & time for receipt of bids documents:** Date 13.06.2024 Time 03.00 pm
- **Time & Date of opening of Technical bids:** Date 14.07.2024 Time 3.00 pm
- Any tender which is not accompanied by Earnest Money deposit are liable to be rejected. Earnest money deposit of unsuccessful tenderers will be returned within 90 days from the date of opening of the tender. The earnest money deposit of the successful tenderers will be released on completion of supply/work as the case may be within the stipulated period.
- The supplier shall deposit the Earnest Money Amount (EMD) as mentioned in Bid invitation and General information's, payable online during uploading of the tender at <https://mptender.gov.in> only.. Bidder shall upload scan copy of the transaction no./ receipt obtained through online payment as proof of successful payment.
- No interest will be paid on the earnest money for the period during which (the EMD) lies in deposit with Jabalpur Sahakari Dugdha Sangh Maryadit.
- EMD may be forfeited due to following reasons:-
  - If successful Bidder/supplier fails/denies to perform work
- If any bidder/supplier withdraw its bid during the bid validity period
- In case the supplier withdraws his offer during the validity period after placement of order

**CHIEF EXECUTIVE OFFICER**  
**Jabalpur Sahakari DugdhSangh,Maryadit**

**JABALPUR SAHAKARI DUGDH SANGHA MARYADIT, JABALPUR**  
**ANNEXURE-I**  
**INSTRUCTIONS TO BIDDERS**

1. Tenders are invited for the Supply, Installation & Commissioning of Boiler Chimny suitable for capacity 400 kg per hour Coal fired boiler at **Cattle Feed Factory Bandol (Seoni)**, from reputed Manufacturers/Authorized Suppliers/Channel Partners.
2. The Tenderer are requested to go through the tender document's instructions and various terms and conditions contained in Annexure-I to II. It may be noted that no conditions or stipulations to the contrary or which are inconsistent will be accepted. The Tenderer should also note that in absence of any of the schedules, their offer is likely to be rejected.
3. All the details to be filled as per tender document format and tenderer should read all instructions for compliance before submitting his tender.

**Terms & Conditions**

**1. BASIC QUALIFICATION OF TENDERER**

This tender is open for Registered and reputed manufacturer/Authorized suppliers/Channel partners who provide satisfactory evidence:-

- (i) Bidder must quote the experience certificates of above work
- (ii) Preference will be given to Indian manufacturer so that stage wise inspection of Equipment can be offered to check the quality of product.
- (iii) Preference will be given to the tenderer having Separate Spare & Service Dept and having sufficient Number of service Engineers.

**2. EARNEST MONEY**

The supplier shall deposit the Earnest Money amount (EMD) of amount Rs. 30,000.00 for complete work. In case the supplier withdraws his offer during the validity period, after placement of order, the EMD amount shall be forfeited.

**(i) RETURN OF EARNEST MONEY TO TENDERER**

EMD shall be returned to the un-successful Tenderer, as soon as possible, after the tender is decided and on execution of agreement with successful tenderer. No interest shall be paid on EMD amounts.

**3. TAXES AND DUTIES**

- a) All taxes and duties should be ***included in the prices quoted.*** Any kind of taxes and duties shall not be paid extra. However, the breakup of taxes & duties must be indicated separately.

**4. AMENDMENT IN SPECIFICATIONS**

The JABALPUR SAHAKARI DUGDH SANGHA MARYADIT, JABALPUR-.may revise or amend the specification prior to the date notified for opening of Bid of tender. Such revision/ amendment, if any, will be communicated uploaded onwebsite <https://www.mptenders.gov.in>.

**5. DELAYED/ LATE SUBMISSION OF TENDERS**

The JABALPUR SAHAKARI DUGDH SANGHA MARYADIT,JABALPUR- shall not assume any responsibility for any postal delays either for the late receipt of documents by supplier or late receipt of tenders by the Board/JSDS. No Extension in time shall be granted on such grounds.

**6. ALTERNATIVE TENDERS**

Tender should be submitted Online; any alternative offers are liable for rejection.

**7. MISTAKES IN TENDERS**

Rates should be quoted in both; figures and words. In case of ambiguity between rates in figures and words, lower of the two/beneficial to the JABALPUR SAHAKARI DUGDH SANGHA MARYADIT, JABALPUR shall be considered. Such offers can also be rejected on recommendation of committee.

**8. Documents to be submitted with the Tender (Mandatory)**

- a) Copy of Registration Certificate of the Firm / Organization (Tenderer).
- b) Copies of purchase/work orders last five year .
- c) Copy to latest Income Tax returns & copy of Permanent Account Number (PAN) and GST No.
- d) Clint list
- e) Completion/Performance certificates
- f) Income Tax/Sales Tax return of last two years

**9. ALTERATIONS/CORRECTIONS IN TENDERS**

Any alteration/correction in the tender document should be counter-signed. Further, no post tender alteration/correction shall be entertained.

- 10. INCOMPLETE TENDERS :**Tender which is incomplete or obscure in any form is liable for rejection.

**11. ACCEPTANCE OF PART/WHOLE TENDERS & NEGOTIATION OVER TENDERERS RIGHTS THEREOF**

- (A) Chief Executive Officer, Jabalpur Sahakari Dugdh Sangh Mydt, has the power to negotiate with Lowest tenderer on The tender date or any suitable date decided thereof.
- (B) JABALPUR SAHAKARI DUGDH SANGHA MARYADIT,JABALPUR- reserves the right to accept/ reject wholly or partly any tender without assigning any reason whatsoever. The JABALPUR SAHAKARI DUGDH SANGHA MARYADIT,JABALPUR- in this regard shall not entertain any correspondence.

**12. AMBIGUITIES IN CONDITIONS OF TENDERS**

In case of ambiguous or self-contradictory terms/conditions mentioned in the tender, interpretation as may be advantageous to the JABALPUR SAHAKARI DUGDH SANGHA MARYADIT,JABALPUR shall be taken without any reference to the tender.

**13. DIS-QUALIFICATION OF TENDERS**

Tender which gets opened before the due date as a result of improper or no indication having been given on the cover to indicate that it is a tender, will be disqualified.

Tenderer will not be permitted to change the substance of his tender on post interpretation/improper understanding grounds. This includes post tender price changes/ modifications etc. after opening of Price Bid. In such events, otherwise, that is, when a supplier does not comply, tender will be rejected.

**14. DEVIATIONS FROM TERMS & CONDITIONS :-**

Offers with deviations in the terms of payment, liquidated damages, EMD and performance guarantee are liable to be rejected out rightly.

**15. SUBMISSION OF TENDERS**

It may please be noted that the due date/ time of opening can be altered, extended, if felt necessary by the purchaser, without assigning any reason thereof However, due intimation shall be communicated in such a case.

**16. VALIDITY OF TENDERS**

The offers shall be valid for 180 days. Validity of the offer shall be counted from the date of opening of tenders. Those who do not agree for a validity of 180 days will do so at their own risk and their offers are liable to be rejected.

**20. ACCEPTANCE OF TENDER**

- i) The JABALPUR SAHAKARI DUGDH SANGHA MARYADIT,JABALPUR-. may reject any or all tenders or to accept any tender considering advantageous to

**JABALPUR SAHAKARI DUGDHSANGHA MARYADIT,JABALPUR-. Whether it is the lowest offer or not.**

**21. PAYMENT TERMS:-**

Payment shall be made by A/c payee Cheque or RTGS only. The Schedule of Payment shall be as follows: a)

(a) 50% against the safe receipt of material at site

(b) 40 % after installation ,Commissioning and successful trial run of supplied equipment.

(c) 10% after submission of performance bank guarantee of 10% of total project cost with validity not less than one year from date of commissioning. This payment will be processed after submission of Invoices, Delivery challans by supplier.

**22. PRICES AND STATUTORY LEVIES**

(i) The tenderer should quote price F.O.R. destination including Erection, Installation & Commissioning and trial run charges on turnkey basis. However, break up of following elements may be indicated separately :-

(a) Unit Ex-works/Ex-go down rate including packing and forwarding.

(b) GST

(c) Freight charges

(d) Any other levy/taxes.

(e) In case of exemption from GST / IGST tax, documentary evidence shall be furnished with the offer.

(f) No revision on any account shall be allowed during execution of the order.

(ii) Prices offered by the tenderer should be firm and free from all escalations. The prices offered should be valid at least for a period of 180 days from the date of tender opening. Rate approval shall be communicated within 30 days from the date of tender opening.

(iii) The Material to be supplied shall be dispatched to site by Road transport under intimation to the purchaser and consignee. Depending upon the type of material, the supplier shall have to carry out proper packing/crating to avoid damage/breakage during transit. Road permit for dispatch of material if required will be sent by JSDS on written request from supplier.

(iv) After rate approval, the party shall have to execute an agreement on a non-judicial stamp paper worth Rs. 1000/- to be executed with Jabalpur Sahakari Dugdh Sangh Maryadit , Jabalpur.

**23. TRANSIT RISK**

(a) Responsibility regarding covering of risks during transit of material shall entirely be on the supplier. The JABALPUR SAHAKARI DUGDH SANGHA MARYADIT,JABALPUR-. shall, in any case, not bear the transit risks/ transit insurance charges.

(b) Insurance shall be arranged by the supplier.

25. **DELIVERY:** Supply, Erection ,Installation& Commissioning shall be commenced within 3 months (including rainy season) from the date of receipt and acceptance confirmation of order or from the date of contract agreement whichever is applicable. In case of any delay due to assembling or any other technical reasons, supplier will have to communicate in advance in written to the CEO, Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur.

26. **FORCE MAJEURE**

Force majeure condition is herein defined as:-

- (a) Natural phenomena, such as floods, draughts, earth-quakes and epidemics.
- (b) Act of any Government Authority, domestic or foreign, such as war, quarantines, embargoes, licensing control or production or distribution restrictions.
- (c) Accident and disruptions such as fires, explosions, increase in power cut with respect to date of tender opening, break-down of essential machinery or equipment's etc.
- (d) Strikes slow down, lockouts continuing for more than three (3) weeks.
- (e) Failure or delay in the supplier's source of supply due to force majeure causes enumerated at (a) to (d) above, provided the supplier produces documentary evidence to show that there were no other alternative sources of supply available to him or if available, the lead time required was likely to be longer than the duration of the Force Majeure at the normal source of supply.
- (f) Any cause which is beyond the reasonable control of the supplier or purchaser as the case may be. All the provisions of this clause shall apply whether the disrupting cause is total or partial in its effect upon the ability of the supplier to perform.

27. The original bills should be forwarded to the paying authority and should be marked "ORIGINAL". The bill should indicate GST Registration Number and date. The invoice in triplicate with relevant documents such as Material Receipt in good condition etc. should be submitted to Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur.

28. **PERFORMANCE GUARANTEE**

28. If during the course of 18 months subsequent to the date of receipt of consignment or 12 months from the date of commissioning whichever is earlier (wherever applicable) any of the goods found to be defective in materials or workmanship or develops defects during service, they will have to be replaced by the supplier, free of all charges. All necessary arrangements on these accounts will be made by the supplier.

28.2 The said material if required to be replaced, shall be collected by the supplier/ firm from Area Stores/ work site at their own cost and at their own responsibility. These materials will like-wise be returned duly repaired/ replaced and tested subsequently by the supplier to the destination indicated on "FREIGHT PAID BASIS" at their cost in a reasonable time of 30 days from the date of intimation. The guarantee period as stipulated in clause 32.1 above shall also be applicable for repaired/replaced material, which shall however be counted afresh from the date of its delivery in our stores/site.

- 28.3 Further, it is clarified that all the charges towards supply of fabrication materials including packing, forwarding, loading, unloading shall be borne by the supplier. The amount deposited under security deposit clause shall also cover the performance guarantee of the material.

All equipment/ line materials reported failed within the specified guarantee period may be replaced free of cost by the supplier.

- 28.4 Actual cost of dismantling and replacement of these' equipment's/ materials with the new ones may be charged to the supplier's account. 34.5 To and fro transportation cost of such failed equipment may also be borne by the supplier/ supplier.
- 28.6 In the event of the supplier's inability to adhere to the aforesaid provisions, suitable penal action will be taken, which may include blacklisting of the firm for future business with the Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur.  
for a certain period.

**29. COMPLETENESS OF EQUIPMENTS**

The equipment/material shall be completed in every respect with all minor fittings and accessories, even though these may not be specifically mentioned in the purchaser's specifications or the tender's offer. The supplier shall not be eligible for any extra price in respect of such minor fitting and accessories which can be considered as an essential part of the basic equipment even though not specifically mentioned in the specification or in the offer.

**30. EXTENSION ORDER**

The Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur.Reserves right to place an extension order for any additional quantity to the extent of 100% quantity of the original order on the same rates, terms and conditions within six months from the date of order.

**31. RECOVERIES FOR LIABILITIES AGAINST OTHER CONTRACTS**

All amount recoverable from the successful Tenderer against earlier contracts including orders on sister concern with the Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur.  
will be adjusted from payment due against the contract that may be awarded under this specification.

**32. COMPLIANCE OF REGULATIONS**

The supplier should execute and deliver such documents, as may be needed, by the purchaser in evidence of compliance. All laws, Rules and Regulations are required to be incorporated in this reference. Any liability arising out of contravention of any of the laws shall be the sole responsibility of the supplier and the purchaser shall not be responsible in any manner whatsoever.

**33. CANCELLATION OF ORDER**

- 33.1 The Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur.  
May upon written notice of default, terminate contract in the circumstances detailed here under:-



- a) If in the opinion of the Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur. the supplier fails to deliver the material within the time specified or during the period for which extension has been granted by the JSDS.
  - b) If in the opinion of the Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur. , the supplier fails to comply with any of the other provisions of this contract or material is found not in accordance with prescribed specifications and or the approved samples.
  - c) As a result of stage inspection, if applicable, it is revealed that material and or, workmanship is substandard which is likely to affect the performance of the finished product, a notice would be served' by the Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur.  
-. to the supplier to suspend further activities and to take urgent steps towards corrective measures, failing which the entire order would be cancelled.
- 33.2 In the event of such termination, Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur. shall exercise its discretionary power as :-

- a) To recover from the supplier the agreed liquidated damages.

OR

- b) To purchase from elsewhere after giving due notice to the supplier on account and at the risk of the supplier such stores/ material not so delivered or others of similar description in respect of consignment not yet delivered.

OR

- c) To cancel the contract reserving Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur. right to recover damages.

33.3 Notwithstanding that the powers under clause (a, b & c) referred to above, are in addition to the rights and remedy available to the Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur. under the general law of India relating to Contract.

33.4 In the event of risk purchase of stores of similar description, the opinion of the Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur. shall be final. In the event of action taken under clause 39.2(a) or (b) above, the supplier shall be liable to pay for any loss, which the Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur. may sustain on that account but the supplier shall not be entitled to any saving on such purchases made against the default.

33.5 The decision of the Chairman , Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur. shall be final regarding the acceptability of the stores supplied by supplier and the Jabalpur Sahakari Dugdh Sangha Maryadit Jabalpur. shall be give proper reason in writing for the rejection of the stores/ material.

33.6 In the event, Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur. does not terminate the order as provided in clauses above, the supplier shall continue execution of order, in which case he shall be liable to the Jabalpur Sahakari Dugdh Sangha Maryadit , Jabalpur.

**34. ARBITRATION**

In case of any dispute ,if arises between the parties relating to any terms and conditions of the Tender / Agreement and or regarding the agreement /tender before or after the filling of tender and /or execution of the agreement, any party may refer the dispute to a sole arbitrator who will be the Managing Director Of MPCDF, Bhopal whose decision and award shall be final and binding to both the parties. The arbitration proceedings shall be under and accordarice with provision of Arbitration and Conciliation Act 1996. Supplies under the Contract shall be continued by the supplier during the arbitration proceedings, unless otherwise, directed in writing by the Purchaser or unless the matter is such that the work cannot possibly be continued until the decision of the arbitrators or of the Umpire, as the case may be, is issued.

**35. JURISDICTION**

Any dispute or difference, arising under, out of, or in connection with this tender/ contract order shall be subject to exclusive jurisdiction of competent court at Jabalpur only.

**36. RANDOM TESTING-**

Inspection of material after receipt or waiver of inspection will not relieve the supplier from his responsibility to supply the material strictly in accordance with the specification. The Jabalpur Sahakari Dugdh Sangha Maryadit, Jabalpur. In case the samples fail to withstand the required test, the entire lot will be liable to be rejected (i.e. unused material so supplied) and the supplier will have to refund the amount paid, including all taxes and duties, as well as the test charges thereof, after inspection. Such quantities or rejected material as identified, shall be removed by the supplier and replaced in full at his own cost.

**37. CORRESPONDANCE:-**

Copies of all important correspondence on subject should be sent to "CEO, Jabalpur Sahakari Dugdh Sangh Maryadit, Jabalpur".

**38. CONSEQUENCES OF BREACH OF AGREEMENT**

If the authorized person of the unit or a partner in the contract/tendering firm commit breach of any of the conditions of agreement it shall be lawful for the Chief Executive Officer, Jabalpur Sahakari. DugdhaSanghMydt, to cancel the contract and purchase or authorize to purchase stores at the risk and costs of the unit.

**39.0 DISPUTE ARBITRATION & FINAL AUTHORITY**

39.1 It should be clearly understood that in the event of any dispute between supplier and purchaser due to deviation from any terms and conditions of work order & contract agreement, the decision of the Chairman, Jabalpur Sahakari Dugdh Sangh Mydt., in this respect will be final and binding on the both supplier and purchaser.

- 39.2 For matters of dispute, relating to the interpretation of the above clause, the decision of the Chief Executive Officer, Jabalpur Sahakari Dugdh Sangh Mydt, shall be final and binding on all the concerned.

**40. Liquidated damages**

If the supplier fails to deliver any or all of the Goods or perform the Services within the time period(s) specified in the contract, the purchaser shall, with out prejudice to its other remedies under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to:

- i) Upto 15 days 1% of the contracted value
- ii) Between 16 to 30 days 2% of the contracted value
- iii) Beyond 30 days 5 % of the contracted value JSDS reserves the rights to either to cancel the order and make alternative purchase from other sources at the risk and cost of the of defaulting supplier.

## ANNEXURE - II

### Technical Specification for Chimney

#### A.CHIMNEY

Chimney shall be suitable to receive and convey flue gases from Boilers. Though one boiler is sufficient for the designed capacity of the feed plant & Chimney shall be designed for conveying flue gases (Fuel media-Coal) at maximum output of the operating boiler (Capacity 400 kg/hr).

The chimney for the boiler shall be of self supporting type, made out of mild steel sheets of suitable thickness. The steel plates and sections used in construction of the chimney along with other materials like welding such bolts, nuts, washers, gaskets including all consumables like welding rods etc., Should conform to the relevant IS. The corrosion allowance for thickness (5 mm min. For 20 years ) of chimney should be considered for minimum of 20 years life.

The Chimney height shall be as per the Pollution Control Board's regulation. The design and construction of the chimney shall be conforming to IS: 6533 – Part 1 & 2 – 1989. The height of the chimney if indicated at clause No. 6.0 is the minimum requirement and it will be the successful bidder's responsibility to provide the same as per the PCB regulation.(Minimum-100Feet)

While calculating the load on the chimney the following shall be considered:

S.No.	Description
1.	Dead load considering the weights of the chimney shell and permanent fixtures such as ladders with protection cage, platforms with railings, baffles, helical strakes, flanges, fasteners and all accessories.
2.	The imposed load of minimum 1000 Kg/sq.m shall be on the sampling platform.
3.	Wind loads in accordance with the provisions contained in IS 875 (part 3) 1987. The wind load force on the ladders and other fixtures and accessories fixed to the chimney shall also be determined and added to the force on the chimney.
4.	Earthquake loads in accordance to IS 1893: 1975.
5.	The chimney design and the foundation design for the chimney shall be determined by considering the maximum forces, effects and stress calculated from combination of any of the following combinations.

- Dead load + wind load
- Dead load + earthquake load
- Dead load + load due to the lining + imposed load on service platforms + wind load
- Dead load + load due to the lining + imposed load on service platforms + earthquake load

The chimney should consist of all the accessories and the **minimum requirement** of few are as follows:

- **Base plate** minimum thickness of 20 mm with gussets plate minimum 10mm and base stool.
- **Inspection door** with minimum size of 300 W x 500 W shall be provided. The door shall have handles and all associated accessories. The cut-out made on the chimney should have stiffeners of not less than 50 x 50 x 6 mm angles welded on the periphery of the cut-out in the chimney.
- **Access ladder with protection cage:**  
The ladder should start base of the chimney and it should be upto the top of the chimney. The ladder shall be supported from the chimney with structural members of not less than 50 x 50 x 6 mm ISA and the ladder rung should be made of 20 mm dia rod, the width of rung should be of minimum 400mm and the ladder step should be at a frequency of 20mm C/C. Safety enclosure or cage shall be provided for the ladder from 3m to the top.
- **Platform for flue gas sampling and inspection:**  
The platform width should be not less than 800mm and should have 1000mm high pipe railings. An additional middle bracing railing & toe guard shall be provided for the platform. There should be suitable arrangement in the platform for draining out the rain water. Sampling port shall be provided for flue gas sample analysis as per the PCB regulation. At-least two additional platforms shall be provided apart from the lowest level platform.
- **Conical cowl with cowl stays:**  
The minimum cowl diameter should be 1.5 times the diameter of the top of the chimney section.
- **Twin aviation lights and warning lights:**

Aviation obstruction light fixture shall be made of Aluminium alloy casing with separate galleries to house a set of two 40 watts (minimum) LED lamps. The lamp fixture shall have suitable red domes on the galleries and should be connected upto the IP 55 grade of protection Cast aluminium junction box installed at the base on the chimney with 3C x 2.5 sq.mm., PVC sheathed, PVC insulated copper cable. The circuit cable shall be run on the rigid PVC conduit, 2mm thick and shall be fixed on the chimney surface with suitable saddles and clamps mounted on the epoxy based insulators.

- **Lightening arrestor:**

Lightening arrestor should be of copper with minimum 5 prongs, the lightening arrestor should be connected to two earth stations. The earthing conductor should be of size and conductor material as approved by the local statutory authorities. The earthing conductor should be mounted on the epoxy based insulators and not directly fixed to the chimney surface. Two earthing conductor should run parallel from the lightening arrestor and each connected to the independent earth stations. The earth stations in turn should be interconnected with one another.

- **The earth station - connection** should be complete with existing earth station.
- **Flue gas inlet :** Flue gas ducting is separately specified. The cut-out made on the chimney should have stiffeners of not less than 50 x 50 x 6 mm angles welded on the periphery of the cut-out. The opening made on the chimney for the flue gas duct should be extended by 200 to 1000 mm and terminated on counter flanges to facilitate connection of the ducting on the chimney.
- **Helical strakes** to reduce wind excited oscillations for the top 1/3<sup>rd</sup> height (minimum) of the chimney.
- **Chimney bottom should be insulated** up to 3 M height by 50 mm white mineral wool followed by cladding with 3 mm MS sheet. MS sheet cladding should be of butt welded construction.
- All MS parts of the chimney shall be given initial surface treatment including degreasing, de-rusting etc., followed by a coat of primer. The chimney should be finally painted with two coats of suitable heat resistant paint.

- **Foundation bolt** of adequate length and diameter (min 40 mm) with square threads with nut & check nut, shall be provided along with the anchoring channel of section ISMC 150 on the bolt base.
- **Template shall be provided by the successful bidder suitable for the foundation bolts for casting the chimney foundation.**
- **The design of the chimney shall be shared with the purchaser subsequent to placement of order. The Basis of design with respect to wind velocity, seismic categorization of the region etc shall be intimated by the successful bidder post order.**

## 6. ERECTION AND COMMISSIONING :

6.1 Chimney and ducting should be fabricated after getting the drawings approved from the Purchaser / Statutory Authorities.

S.No.	Description	400 kg
<b>1</b>	<b>Chimney Self Supported</b>	01 no.
1.1	Height	Minimum 100 feet
1.2	Chimney Diameter at Bottom	700 mm
1.3	Chimney Diameter at Top	350 mm
1.4	Supporting arrangement	Guy Rope

**Chief Executive officer**

**JABALPUR SAHAKARI DUGDHA SANGH MARYADIT, JABALPUR**

**(To be submitted along with the offer only online)**

**Envelop-B**

**Form —B**

**Price Bid**

**FOR CATTLE FEED FACTORY BANDOL**

**Tender Ref No: /CFF BANDOL/ 2024/Jabalpur**

**Date-**

S. No.	DESCRIPTION	QUANTITY	Rate For 400 Kg per hour <b>COAL FIRE BOILER CHIMNEY</b> - FOR Destination & Inclusive of P&F, Freight, Taxes applicable & all other charges such as supply , Erection, commissioning and with trial run etc.) (In Rs.) IN WORDS
A.	Removal of old Chimney and Supply , Erection & Commissioning of 1 Set (as per the technical specifications) Coal fired Boiler Chimney	1 Set ( as per technical specifications)	

**Date :**

**Place :**

**Signature of authorized of the Unit  
(with seal)**



