



**बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित**  
**नरसिंहपुर रोड़, सिरोंजा, सागर (म.प्र.) 470004**

बाष्पयंत्र पंजीयन क्रमांक एम पी 3732 व एम पी 3733 में नई कॉमन चिमनी, व अलग अलग वॉटर प्रीहीटर एवं सॉईक्लोमैक्स डस्ट कलेक्टर लगाने के कार्य हेतु द्वितीय ई-निविदा

BKDS/Eng./B1/ Boiler Chimney  
WPH & DC installation /Tender/534/2021.

Date : 16/09/2021

निविदा खुलने की दिनांक : 17/09/2021  
समय दोपहर 12.00 बजे

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**नरसिंहपुर रोड़, सिरोंजा सागर, (म.प्र.) 470004**

फोन नं. 07582 – 281345.

ई-मेल – [sanchimccsagar@gmail.com](mailto:sanchimccsagar@gmail.com)

ई-निविदा प्रपत्र मूल्य – ₹ 1,000.00



# बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित

**BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT**

Sironja, Sagar - 470228, Madhya Pradesh

Phone : (07582) 281345

E-mail: [sanchimccsagar@gmail.com](mailto:sanchimccsagar@gmail.com)



Ref. BKDS/Eng./B1/ Boiler Repairing/Nivida/534/2021

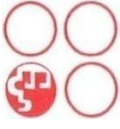
Date : 16.09.2021.

## --: द्वितीय ई-निविदा सूचना :-

बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित सागर द्वारा अनुभवी एवं आई बी आर प्रथम/द्वितीय श्रेणी लायसेन्सधारी निर्माताओं/फ्रेब्रिकेटरा से बुन्देलखण्ड दुग्ध संयंत्र में स्थापित 2.0 मेट्रिक टन क्षमता के वेस्टरवर्क मेक स्टीम बॉयलर- पंजीयन क्रमांक एम पी 3732 व एम पी 3733 हेतु नई चिमनी, वॉटर प्रीहीटर व डस्ट कलेक्टर लगाने के कार्य हेतु एवम कार्य अनुरूप आवश्यक सामग्री प्रदाय एवं मध्य प्रदेश प्रदूषण नियन्त्रण मंडल के अनुरूप नई चिमनी व डस्ट कलेक्टर तथा ईंधन की खपत कम करने हेतु वॉटर प्रीहीटर लगाने के कार्य हेतु द्वितीय ई-निविदा आमंत्रित की जाती है। निविदा प्रपत्र का मूल्य राशि रु. 1,000.00 (रु. एक हजार मात्र) ऑनलाइन मध्यप्रदेश ई-टेण्डर की वेबसाइट ([www.mptenders.gov.in](http://www.mptenders.gov.in)) पर भुगतान कर दिनांक 17.09.2021 से क्रय की जा सकती है। निविदा प्रपत्र मध्यप्रदेश दुग्ध महासंघ की वेबसाइट ([www.sanchidairy.com](http://www.sanchidairy.com)) पर भी देखा एवं पढ़ा जा सकता है। निविदा प्रपत्र क्रय करने की अंतिम तिथि 23.09.2021 है। समस्त निविदा अथवा एक निविदा को स्वीकार अथवा अस्वीकार करने का अधिकार मुख्य कार्यपालन अधिकारी, बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित, सागर के पास सुरक्षित रहेगा। निविदा प्रपत्र में किसी भी प्रकार के संसोधन की सूचना केवल ऑनलाइन जारी की जायेगी।

क्रमांक	विवरण	मात्रा	अमानत राशि
01	बुन्देलखण्ड दुग्ध संयंत्र में स्थापित बाष्पयंत्र पंजीयन क्रमांक एम पी 3732 व एम पी 3733 में नई चिमनी, वॉटर प्रीहीटर व डस्ट कलेक्टर लगाने के कार्य हेतु द्वितीय ई निविदा	01 सेट / कार्य	रु. 50,000.00

मुख्य कार्यपालन अधिकारी  
बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित  
सागर



**बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित**  
**BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT**

Sironja, Sagar - 470228, Madhya Pradesh  
Phone : (07582) 281345

**E-mail: [sanchimccsagar@gmail.com](mailto:sanchimccsagar@gmail.com)**



**Ref. BKDS/Eng./B1/ Boiler Repairing/Nivida/534/2021**

**Date : 16.09.2021.**

Schedule I	:	General Terms and Conditions
Schedule II & III	:	Technical Specifications
Schedule IV & V	:	Mandatory Declaration Form
Schedule VI	:	Commercial Price Schedule
Tender Form issue date and time	:	17/09/2021 12:00 PM
Last date of purchase of Tender Form	:	23/09/2021 12:00 PM
Last date of submission of Tender Form	:	23/09/2021 02:00 PM
Time & Date of opening of Technical Bid	:	24/09/2021 04:00 PM
Time and Date of opening of eligible Financial/Price Bids.	:	After completion of technical qualifications.
Place of opening of Bids	:	OFFICE OF BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT, SAGAR – 470228 (M.P)
Address for Communications	:	CHIEF EXECUTIVE OFFICER, BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT, NARSINGHPUR ROAD, SAGAR – 470228 (M.P)
Cost of Tender Form	:	Rs.1,000/- (Rupees One Thousand only) (to be paid online)

**Chief Executive Officer**  
**Bundelkhand Sahakari Dugdh Sangh Maryadit.**  
**Sagar**

## **SCHEDULE - I**

### **General Terms & Conditions to participate in tender and supply**

Bundelkhand Sahakari Dugdh Sangh Maryadit, Sagar (BSDSM), invites Tender through from Bonafide Suppliers/Fabricators/ Repairers to supply necessary items for installing new chimney for both boilers, independent Water Pre heater & Cyclomax Dust collector for both 2.0 MT capacity **Westerwork make Steam Boiler registration No. MP 3732 & MP 3733** of Bundelkhand Dairy Plant as per technical details attached (Schedule – II and Schedule-III)

Bundelkhand Sahakari Dugdh Sangh Maryadit, Sagar reserves the right to accept or reject any or all tenders, which in their opinion justify such actions, without further explanation to the bidders.

#### **1.0 DECLARATION :**

The submission of a tender by a bidder implies that he/she has read the notice and conditions of the tender and the terms and conditions of contract and has made himself/herself aware of scope and specifications of the supplies/work to be made and the destination where the supplies have to be made and satisfied himself/herself regarding the quality and specifications of the articles.

#### **2.0 TENDER SUBMISSION:**

2.1 Not more than one tender shall be submitted by a Bidder/Firm for each item.

2.2 Tender documents consisting of specifications, schedule(s) etc. of work to be done, the condition of contract and other necessary documents will be opened for inspection online and issue for sale for payment of Rs. 1,000/- (Rupees One Thousand Only) to be paid online on or before 23/09/2021 up to 02:00 PM.

In the first instance, Earnest Money shall be opened online. If the Earnest Money is found proper, technical bid shall be opened in the presence of such bidders who choose to be present. The Financial offer shall be opened only if bidder meet the qualification criteria and availability of bid capacity as per qualification.

2.3 The bidder(s) should clearly state in their offer the address, telephone, fax, e-mail, PAN, GST Number and company profile. Any change in the address should immediately be communicated to the Chief Executive Officer, Bundelkhand Sahakari Dugdh Sangh Maryadit, Sagar and correspondence thereafter will be made at the changed address.

2.4 Negligence on the part of bidder in filling the tender form offers has no rights to withdraw the tender after it has been opened.

2.5 All document submitted only online.

2.6 The acceptance of the tender and award of the purchase/work order will be the sole right of the Chief Executive Officer, Bundelkhand Sahakari Dugdh Sangh Maryadit, Sagar who does not bind himself to accept a tender in whole or in part or reject any or all the tenders received without assigning any reasons and no explanation can be demanded of the cause of rejection of the tender by any bidder.

- 2.7 The bidders should send their offers along with the specifications, work schedule necessary drawing, etc. which will form the basis of their quotation and integral part thereof.
- 2.8 Each page of the tender and its enclosure should be seal & signed at the bottom by the bidder.
- 2.9 The bidder cannot sublet the contract or assign to any other party or parties, the whole or any portion of the contract. If found so, the work order will be cancelled, and party will be black-listed.
- 2.10 Bidder shall fill all the details of the unit in the enclosed form in Schedule-IV
- 2.11 All bidders are requested to ensure visit on Dairy Plant, Narsinghpur Road Sironja Sagar to inspect the present condition of Steam Boiler Chimney on working hours (10AM to 5PM) before submitting the tender form.

### **3.0 EARNEST MONEY DEPOSIT:**

- 3.1 EMD deposited only online payment mode.
- 3.2 Any tender which is not accompanied by Earnest Money Deposit will be rejected. Earnest Money Deposit of unsuccessful bidders will be returned within 30 days from the date of opening of the tender. The EMD of first runner up will be returned after receipt of the material at Bundelkhand Dairy Plant. The Earnest Money Deposit of the successful bidder will be released on completion of supply/successful implementation, testing and warranty (minimum one year-both for supply and work) which covers maintenance. During the warranty period if services provided by successful bidder found not satisfactory then EMD will be forfeited by Bundelkhand Sahakari Dugdh Sangh Maryadit, Sagar.
- 3.3 No interest will be paid on the Earnest Money for the period during which (the EMD) lies in deposit with the BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT, SAGAR.

### **4.0 PRICES:**

- 4.1 Rate should be quoted for supply of parts, Re-installation, Erection, trial run and commissioning, passing through legal authorities and maintenance services during the warranty period which should be of minimum one year period on F.O.R. Basis.
- 4.2 If the tendering unit has any doubt as to the meaning of any of the conditions or the specifications before submitting the tender, set forth the particulars thereof, and submit them to the BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT, SAGAR in writing in order that such doubt may be cleared.
- 4.3 The rates should be in figures as well as in words and no cuttings/overwriting in rates or material terms should be there in tender otherwise tender will be rejected.
- 4.4 Prices offered by the bidders should be firm and free from all escalations. The prices offered should be valid at least for a period of 30 days from the date of tendering the rates. We would communicate our rate approval within 07 days of opening of tender.

- 4.5 The bidder should quote rate F.O.R. destination. (Including transportation loading and unloading, crane charges, VAT/GST/Excise duty etc.)
- 4.6 **The lowest rate shall not be the only criteria for awarding the tender.**
- 4.7 Corrections, if any, in the tender should be noted over and signed at the places of each correction made.

## **5.0 MODE OF DESPATCH:**

- 5.1 All material and other accessories supply is the whole responsibility of successful bidder. All the labours working under the repairer must be safe guarder by the bidder. Safety and complete responsibility of all labours shall be of successful repairer and their legal obligations must be fulfilled by the repairer. The repairer must verify/ declare in the invoice that he must deposit ESI/EPF and other labour welfare funds as per governments norms.
- 5.2 Wharf age/Demurrage etc. on account of incorrect or delayed dispatch of material of documents shall be the responsibility of supplier and shall be recovered from bill.
- 5.3 Delivery schedule: The equipments required are in topmost urgency and schedule of delivery, installation & commissioning desired is as under:  
 1. accessories & Spare parts – 25 days.  
 2. Repair work – 60 days.

## **6.0 LIQUIDATED DAMAGES:**

- 6.1 Once firm delivery date(s) are fixed, they shall be strictly adhered to. In case they are not followed, Bundelkhand Sahakari Dugdh Sangh Maryadit, Sagar reserves the right either to cancel the order and make alternative purchases from other sources, at the risk and cost & expenses of the defaulting Bidder. In case the Bidder delays in supply of goods as per schedules, the liquidated damages will be charged as under:-

SN	Duration of delay	Liquidated Damages
1.	Up to 15 days	1% cost of the unit.
2.	Between 16 to 30 days	2% cost of the unit
3.	Beyond 30 days	Up to 5% cost of the unit.

- 6.2 If the bidder fails to make supply as per work/purchase order without any valid reason, the order would be treated as cancelled and the firm may be blacklisted for future dealings and EMD/SD also would be forfeited by the management.

## **7.0 TERMS AND CONDITION & PROTECTION TO WORK:**

- 7.1 The supplier shall effectively protect at his own expense, such work, equipment or material as may be liable to damage, theft or tampering during installation/ commissioning. Insurance charges, ESI deductions as per present labour law etc. for the above shall be borne by the supplier/repairer till handing over of complete installation to Bundelkhand Sahakari Dugdh Sangh Maryadit as per terms and conditions of contract.
- 7.2 The supplier shall arrange for safety and insurance, etc. of his people employed for erection and installation work as per ESIC Act workman compensation and any other provision to meet statutory requirement of various Labour Act/Rules. In case of accident to any of the workers during the period of installation, Bundelkhand

Sahakari Dugdh sangh shall not bear any liability whatsoever the entire responsibility primary and final in this respect will be that of supplier/bidder.

- 7.3 All persons engaged by the bidder shall be the contractor's own employee and they will claim no privileges from Dairy. The contractor will be directly responsible for the administration of the employees as regards general discipline and courteous behaviour.
- 7.4 The Bidder will not take out of the Dairy premises any article/material/equipment etc. without a Gate Pass to be issued by the authorized person of the Dairy.
- 7.5 The bidder shall be responsible for all damages or losses to Dairy property by the bidder himself or his staff and shall be liable to make payment.
- 7.6 The bidder shall ensure that the personnel deployed by him are observed to adopt hygienic and safe act. Any act or practice which can cause or has the potential to cause financial loss to the Organization is liable for the financial penalty as imposed by the Dairy.
- 7.7 All personnel deployed by the bidder will comply with the industrial norms/practices to maintain industrial discipline and peace and the responsibility for enforcing and ensuring the compliance of the same shall be directly with the supplier/repairer.
- 7.8 Bidder shall comply with all statutory and/or administration requirement in connection with (i) personnel so deployed by the contractor in connection to the said work and (ii) their commercial arrangement.
- 7.9 Bidder shall be solely responsible for any claim, damage, compensation, etc. that may become payable to any of the person or persons deployed by the bidder in connection with the work, in event of an accident or mishap resulting in any disability, injury or death of the person within or outside the premises of the Dairy. The Dairy shall not be liable in any manner whatsoever either monetarily or otherwise for any accident or mishap as mentioned above.
- 7.10 Guarantee/warranty certificates in writing would be handed over after commissioning.
- 7.11 In case of defective items, the same shall have to be replaced by the party concerned at its own cost and risk and within stipulated time.
- 7.12 The successful bidder must produce challan in two copies of materials which he was supplied mentioning quantity, make etc. along with all certificates.
- 7.13 The successful bidder has to submit separate invoices against supply and repairing work.

## **8.0 INSPECTION:**

- 8.1 All the materials are subject to inspection at our works before acceptance. If goods are rejected due to defective or wrong supply, the report of our inspector in this respect shall be FINAL and no correspondence on the subject would be entertained. The rejected goods should be removed from our premises by the bidder within 05 days after receipt of our inspection report failing which the same shall be returned to the supplier at his/her risk and expenses or disposed off in auction and the proceeds, if any, less expenses credited to bidder account.

## **9.0 ELIGIBILITY CRITERIA**

- 9.1 Tenderers should submit supplier's List with contact detail / Purchase order copy / performance Report.
- 9.2 Maximum experience in dairy/Food/Beverages industry will have advantage for performance in tender opening.
- 9.3 The tenderers should submit copy of IT Return for Last Two years.
- 9.4 The tenderers should submit copy of PAN Card.
- 9.5 The tenderers should submit Filled Schedule-IV & Schedule-V & attached related document as per Eligibility Criteria.
- 9.6 The tenderers should submit EMD only online mode.
- 9.7 The tenderers should submit copy of Firm Registration certificate.
- 9.8 **Prequalification criteria of the bidder are as follows:**

Tenderer should meet the following minimum pre-qualification criteria:

Technical competence:

- (i) The Bidder should have the License from Govt of Madhya Pradesh for repair of the IBR part of the Pressure Boiler.
- (ii) Bidder should be experienced in the field of Fabrication/Repairing/Renovation of plant/Maintenance of SS/MS Tank/Vessels/Chimney/Duct etc. with at least 2 works worth at least Rs 10.0 lakhs each executed in last 5 years in Govt/PSU/State Govt./Autonomous bodies.

## **10.0 PAYMENT:**

### **(A). For Material Supply: -**

- 10.1 60 % of the cost of material/spare parts shall be paid as advance within 15 days on submission of bank guarantee equivalent to same amount from a Nationalized Bank valid till the delivery of all the equipment/material at site.  
(As mentioned in Schedule-III).
- 10.2 30 % of the cost of complete Supply and Erection /Installation, commissioning of equipment/materials with Boiler at site and smooth operation of equipment.
- 10.3 The balance 10% will be released after submission of a performance bank guarantee of a Nationalized bank for 10% of the contract value (both material supply and re-installation work) valid till the completion of guarantee period (12 Months from the date of commissioning).



**(B). For Re-Installation, Commissioning work :-**

- 10.4 60 % of installation cost will be paid after successful completion of all work and installations of equipment and Properly successful all work is going on and installations will be paid 30%cost after issued in 1 month. Balance 10% will be released after one year or submitting Bank Guarantee of equal amount mentioned as above for one year.

**11.0 TERMINATION OF CONTRACT:**

- 11.1 If any act of commission or omission of a unit under contract brings BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT. SAGAR to dispute, the CEO, BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT, SAGAR shall be competent to debar/blacklist the unit from further business.

**12.0 CONSEQUENCES OF BREACH OF AGREEMENT:**

- 12.1 If the authorized persons of the unit or a partner in the contract/biding firm commit breach of any of the conditions of agreement, it shall be lawful for the Chief Executive Officer, Bundelkhand Sahakari Dugdh Sangh Maryadit. Sagar to cancel the contract and purchase or authorize to purchase stores at the risk and cost of the unit.

**13.0 DISPUTE ARBITRATION & FINAL AUTHORITY:**

- 13.1 It should be clearly understood that in the event of a successful bidder failing to accept and execute the supply order, then decision of the Chief Executive Officer, Bundelkhand Sahakari Dugdh Sangh Maryadit., in this respect will be final and binding on the bidder.
- 13.2 In any case of dispute between material/service supplier and BKSDSM matter will be presented to MD, MPCDF for resolution.
- 13.3 All dispute between tenderers and BKSDSM matter will be put to MD, MPCDF for resolution. in case no resolution action will be taken as per arbitration ACT 1996.
- 13.4 For all disputes, the venue shall be at Sagar.

**14.0 CONSCENT LETTER:**

- 14.1 Successful bidder shall Submit a letter of consent in Rupees 1000.00(Rupees One thousand Only) Non Judiciable stamp paper as an agreement to work/supply the item mentioned above as per tender terms & conditions within 03 days of receipt of work order.

**Chief Executive Officer  
Bundelkhand Sahakari Dugdh Sangh Maryadit.  
Sagar**

**SCHEDULE – II**  
**TECHNICAL SPECIFICATION OF**

**NAME OF WORK: - SUPPLY INSTALLATION & COMMISSIONING OF  
NEW COMMON CHIMNEY & INDEPENDENT WATER PREHEATERS &  
DUST COLLECTOR IN BOTH THE OLD BOILER REGISTRATION No. MP  
3732 & 3733 AT BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT  
SAGAR (M.P.) 470004**

**WATER PRE-HEATER**

**SYSTEM DESCRIPTION**

The flue gas will pass through a suitable capacity shell and tube type heat exchanger, and the feed water going to feed pump face counter flow of flue gas, and will absorb heat and the temperature of feed water will get up to 90°C.

**TECHNICAL SPECIFICATION**

It will be duly insulated shell and tube type heat exchanger, the flue gas will pass through the tubes and water will pass outside the tube inside the shell.

**CYCLOXMAX DUST COLLECTOR**

**SYSTEM DESCRIPTION**

It will be cyclone connected in series after HRU, and the dust will be collected at the bottom after cyclonic whirl, the dust will be taken out from bottom of cyclone through an airlock rotary valve, and clean air will go to ID Fan through suitable size ducting, duly lined with suitable material for preventing against erosion against flue gas.

**TECHNICAL SPECIFICATION**

It will be 800 mm dia cyclone fabricated out of 6 mm MS sheet with adequately design, total length will be 2500 mm and straight height will 1000 mm. An air lock rotary valve of 150 mm size with geared motor of 1 MP will be provided.

## **CHIMNEY**

### **SYSTEM DESCRIPTION & TECHNICAL SPECIFICATION**

**(DIAMETER OF CHIMNEY 750 MM ID AT TOP & 2250 MM AT THE BOTTOM & 31 METER LENGTH, SELF SUPPORTED TOTALLY CONICAL CHIMNEY WITH APEX ANGLE 1°)  
(REMAINING DETAILS AS PER IS : 6533 (1989))**

**SUBMIT DRAWING BEFORE STARTING THE WORK**

**(APPROXIMATE MATERIAL REQUIRED FOR CHIMNEY 12000 KG.)**

1. TOP 11 METER SHELL – 5 MM THICK CONICAL 800 MM TOP DIAMETER.
2. MIDDLE 10 METER SHELL – 5 MM THICK CONICAL FRUSTAM.
3. BOTTOM 10 METER SHELL – 6 MM THICK CONICAL 2200 MM BOTTOM DIAMETER CONE FRUSTUM.
4. BOTTOM FLANGE BOX 22 MM THICK 2000 MM OD.
5. Gussets 8 mm plate
6. Cleaning Door 6 mm plate
7. Butt ribs 6 mm plate
8. Gussets 6 mm plate
9. Angle Ring A 65 X 8
10. Gay Rope Clamp F 50 X 10
11. Nipple 5 mm plate
12. Flange A 65 X 8
13. Spiral Stair up to 10 M Height
14. Ladder 50 mm Pipe
15. Rug 20 mm Pipe
16. Guard F 20 X 3
17. Cap Support A 40 X 5
18. Cap Cone 5 mm
19. Cap Ring F 50 X 5
20. Platform C Plate 6 mm
21. Platform Supp. Ch. 75 X 40
22. Toe Guard F 50 X 3
23. Railing Pipe A – 32 mm
24. Railing Pipe A – 20 mm
25. Lightning Arr. Br. A 35 X 5
26. Painter Trolley As per ISI
27. Sample Nos. pipe 4 "OD
28. Nozzle Flange Table - E
29. Wire Rope 10 mm
30. Wire Rope 10 mm
31. Wire Rope Clamps 10 mm
32. Thimble 10 mm
33. Turn Buckle 12 mm
34. Bush (For Gay) 13 mm ID
35. Nut Bolts M16 X 30
36. Nut Bolts M12 X 60
37. Nut Bolts M12 X 20
38. Foundation M20 Bolt 1200
39. Foundation Nut M20
40. Foundation Washers 22 / 40
41. Insulator Epoxy/Porcelain
42. Lightninging Arr. Copper
43. Vortax Air Cutter 40 x 5
44. Aluminium Flat 25 X 3
45. 5 mm Earth Plate 500 X 500
46. GI Pipe 50 mm 3 Met.
47. 25 mm Plain Steel Eye – Hook.
48. GI Screw & Nut ¼"
49. Safety guard around the ladder will be given.
50. The width of the monkey ladder will be 450 mm.
51. The platform is a circular platform of 1 meter width all around the chimney with toe guard & railing.
52. Nipple of 550 dia to connect the Boilers has been assumed two met. Long and the same will be connected to the chimney after erection as per the position of the boilers.
53. The standard copper lightninging arrestor will be fitted & will be connected to one earthling pit through 25 X 3 aluminium flat duly isolated from chimney by FRP of porcelain insulator.

## **OTHER SPECIFICATIONS**

1. The bidder should have valid IBR Registered agency with Director of Boilers Bhopal under Class – I/II Capacity & should have approved welder for doing the job.
2. All Technical parameters are as per MPPCB, the successful contractors must have experience of the work and should have enough infrastructure approved welders with and also have sufficient numbers of skilled workers.
3. **STRUCTURE** : All Structure needed to support the water preheater, cyclone, chimney & all connecting ductings in Boiler house.
4. **PIPELINE** : Re-Installation, Laying of various size of Steam Pipeline which connected with feed water tank, Boiler, feed pump & water pre heater.
5. **FEED WATER PIPELINE** : Re-Installation, Laying of 2" dia Feed water Pipeline appropriate length from water storage tank to Boiler.
6. **INTERCONNECTING DUCT** : Re-Installation of complete Inter connecting duct with complete Painting work.
7. **INSULATION WORK** : Complete Insulation of water preheater and feed water pipeline should be done by LRB and cladding with aluminium sheet. (Density of LRB – 100 kg/M<sup>3</sup>)
8. **ELECTRIC INSTALLATION** : Installation, Commissioning of Complete Electric equipment with all cabling/wiring work which connecting with panel to various parts inside boiler house.

## **OTHER REQUIREMENT :**

1. The Erection, Installation & commissioning and Testing cost is included in material cost.
2. Installation and commissioning of the system includes connecting the pipeline with Boiler.
3. Installation and commissioning of the system for operation of the Boiler through coal.
4. The tentative quantity is indicative only. The bidder should inspect the site and take exact measurement before participation in the tender.
5. The total system should have one year warranty after the installation and commissioning and supplier should replace and repair any defective arise during the warranty period free of cost.
6. All the bought-out items used should be mentioned reputed make with IBR/IS standard and easily available in the Indian Market.
7. Tools & Tackles: All tools & tackles, equipment and other required facility for supply, erection, Installation, commissioning & testing of Boiler shall be arranged by the supplier.
8. The supplier shall supply the miscellaneous material like bend, Anchor Fasteners, Screw Bolt and Nuts, Clamps, suitable angle etc. For the laying the pipeline and carryout associated minor works for successful completion of work.
9. Contractor shall do any other related jobs that are not mentioned above, but found necessary at the time of execution to complete the job in all respect.
10. The bidder should visit the site for inspection and understanding the requirements before quoting (on any working day during 10am to 4pm with prior intimation).

## **GENERAL:**

1. Fabrication and welding shall be made in accordance with related standard/ regulation of code.
2. Tell-tale holes shall be provided in all reinforcement pad weld joint.
3. The conditions, issue and use of electrodes shall be in strict compliance with all requirements of electrode manufacturer.
4. Before welding clean thoroughly internal surface off foreign deposits.
5. Matching blind flanges with Gaskets, bolts, Nuts & Washer shall be provided for flanged nozzles wherever required.
6. Structural support fabrication, fixing including sliding and fixing support for steam pipeline excluding material strictly as per site conditions. Supply of IBR Steam Fittings as per IBR Standard.
7. This specification covers the general requirements for site/shop fabrication, installation testing and painting Insulation as applicable for Boiler and Piping work.
8. All the layouts and drawing for piping and related works to be prepared by suppliers and to be submitted for approval to Engineering section for and only then work may be started by supplier.
9. Scope of work also includes obtaining all necessary approvals from Boiler Inspector as required.
10. Laying out of drawing and obtaining approval from Boiler Inspector for carrying out the works will be in scope of successful bidder.
11. All the piping materials and testing shall confirm to the valve and piping specification unless otherwise specified. Outside material testing (third party) shall be in scope of Tenderer.
12. where specific details of fabrication are not shown or specified herein, fabrication shall be in accordance with BS 3351/ ASA B 31.3
13. Piping in service which fall under the jurisdiction of the boiler code shall be fabricated in accordance with the latest edition of the Indian Boiler Regulation 1950.
14. No previous records paper, certificates of this boiler is available at Sagar dairy hence all required paper, certificates has to be prepared or provided by the tenderer for legal requirement. Piping shall also comply with applicable state, local or other government law and codes. In case of conflict with the specification, the more rigid specification shall govern.
15. All work shall be performed in accordance with the best modern practice of this type of work and shall be of the highest quality workmanship. Welding electrodes used for carbon steel piping work shall be accordance with IS6013 and of high quality from reputed shall have manufacturers. (ESAB/ADVANI/D&H)
16. Any deviation from this specification must have the approval BSDSM Sagar.
17. All fabrication for Boiler and Steam line to be done by IBR approved Tenderers.
18. All the complete piping should confirm to the fabrication and dimensional tolerance Specified in the standard of the pipe fabrication institute/ and shall in no case be more than the followings :-
  - individual dimensional tolerance :  $\pm 1.5\text{mm}$
  - Overall dimensional tolerance  $\pm 3.0\text{mm}$

### **LAYOUT CUTTING AND FITTINGS :**

1. Templates shall be used in laying out chimney, lateral and other irregular details to ensure accurate cutting and proper fit up.
2. Machine cut bevels to form the welding groove in preferred, but smooth, clean slag free flame cut followed by grinding bevels is acceptable.
3. In fitting details preparatory to final welding, spacers shall be used while tack welding the pipe and connections in position so that proper gap is made for full preparation of Welds  
The following the recommended gaps :
  - For Pipe size below 150 mm
  - 1.50 mm weld gap
  - Pipe size 150 mm (inclusive) and above
  - 3 mm weld gap.
4. Only small track welds, which penetrate to the bottom of the welding groove, shall be used and shall become a part of the finished weld. Tack weld having penetration are not acceptable and must be chipped out. Each weld shall be cleaned of all scales, slag, flux and other foreign matter before additional welding beads are applied.
5. In General, permanently welded-in-rings shall not be used. If back up rings should be necessary and desirable, they may only upon scientific approval of the engineer/ the owner. If used they shall be stream lined to minimize turbulence and resistance to flow through pipes.
6. All the metallic and non-metallic scrap generated during execution of work will be property of BSDSM Sagar and supplier no right claim on the scrap generated.

### **WELDING :**

1. Welders and welding procedure shall be qualified in accordance with the requirement of the codes and IS-817. 1966. Horizontal and /or vertical welding qualification shall be shown on qualification papers.
2. All welding shall have full thickness penetration and shall be done by electric arc process. The initial root runs of all but welds shall be carried out with electrodes not exceeding 12SWG. In case of SS, root shall be done by argon arc.
3. In multiple pass welding the slag shall be cleaned from each layer and any serious defects chipped out before the next layer is applied. Peening shall be done in necessary to prepare a bead for the next pass.
4. The complete weld shall be cleaned of slag spatter metal on all surface, and when possible the inside bead should be ground smooth.
5. No undercutting of pipe adjacent to the completed weld should be permitted.
6. Finished welds shall project not less than 1.5mm but not more than 3mm from outer surface of the pipe.

### **ELECTRODES :**

1. All field-fabricated piping shall be cleaned at the completion of fabrication. Care shall be taken to see that all burr, welding icicles and weld spatter are removed by reaming, chipping, filing, sanding or other suitable means.
2. All foreign material such as cement, mortar, sand heavy oil films and loose scale be removed from the interior of pipe by thoroughly flushing With water or by blowing compressed air as per service. To avoid large size foreign material being washed in to smaller diameter branches lines from a larger diameter header line, special precautions should be taken to disconnect at branches or to selectively blank them off.

**INSULATION STANDERD FOR HOT SERVICE:**

1. The external surface shall be cleaned by means of wire brushing before commencing the lagging work. Insulation shall comprise of fibre glass wool blanket/LRB pad of requisite thickness as per temperature conditions, ready backed with wire netting, secured in position by soft 20 gauge GI lancing wire. All joints shall be densely filled with glass wool / LRB. The minimum thickness of insulation for steam piping should be 50 mm & for Boiler Surface 75 / 100 mm.
2. The pipe / equipment as above shall have a cladding of 24 SWG aluminium sheet metal. the aluminium Sheet cladding shall be with proper grooves and overlaps and secured in position with suitable self-tapping parker screw.

**TEMPERATURE RANGE**

Steam service –dry saturated steam varying from 10 Kg/Cm<sup>3</sup> to 6 Kg/Cm<sup>3</sup> or less as required.

**Note**

1. All the IBR certification, fees, documentation, procedure to be followed by the approved contractor as a part of the contractual responsibility. This include material ground inspection to successful hydraulic -test of boiler.
2. The challan fees for repair permission will be paid by Bundelkhand Sahakari Dugdh Sangh Maryadit Sagar.
3. All Bidders who are interesting to participate in the tender must visit the site and inspect the present condition of boiler before filling up the tender form.
4. Time period for completion of work with in 2 Month.

**Chief Executive Officer  
Bundelkhand Sahakari Dugdh Sangh Maryadit.  
Sagar**

### **SCHEDULE – III**

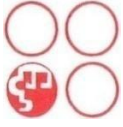
#### **TECHNICAL SPECIFICATION OF SUPPLY OF MATERIAL**

#### **INSTALLATION & COMMISSIONING OF NEW COMMON CHIMNEY & INDEPENDENT WATER PREHEATERS & DUST COLLECTOR IN BOTH THE OLD BOILER REGISTYERATION No. MP 3732 & 3733**

<b>SN</b>	<b>Description of Item</b>	<b>Qty.</b>
01.	Supply Erection and commissioning of (CHIMNEY OF DIAMETER 750 MM ID AT TOP & 2250 MM AT THE BOTTOM & 31 METER LENGTH, SELF SUPPORTED TOTALLY CONICAL CHIMNEY WITH APEX ANGLE 1°) (REMAINING DETAILS AS PER AS PER IS : 6533 (1989))	01 Nos.
02.	Supply Erection and commissioning of Shell and Tube type heat exchanger for water Pre heater of suitable capacity, the feed water going to feed pump face counter flow of flue gas, and will absorb heat and the temperature of feed water will get up to about 90°C .	02 Nos.
03.	Supply Erection and commissioning of 800 mm dia cyclone fabricated out of 6 mm MS sheet with adequately design, total length will be 2500 mm and straight heights will 1000 mm. An air lock rotary valve of 150 mm size with geared motor of 1 MP will be provided, duly lined with suitable material for preventing against erosion against flue gas.	02 Nos.
04.	Supply, Erection and commissioning of All ducting of appropriate size having thickness 4 mm for cool air & 5 mm for hot gas to connect all the equipment such as ID, FD, Water Pre heater, cyclomax & chimney.	02 Nos.
05.	Supply Erection and commissioning IBR Approved feed water line to connect Water pre heater, feed pumps & Boiler.	L.S. 02 Set
09.	Supply Erection and commissioning of Thermal Insulation work on Steam pipeline, Boiler surface, by LRB Pad and aluminium sheet 24 SWG (Density – 100 Kg/M <sup>3</sup> ) where ever is required for complete work. (50 / 75 / 100 mm Th.)	L.S. 02 Set
10.	Supply and commissioning of steam pressure gauge with siphon Tube Hex Nipple, Air Relief Valve etc.	L.S. 02 Set
11.	Supply Erection and commissioning of Hardware Item for Complete Boiler work (Nut, Bolt, Gaskets, Sealing Items, and Anchor Fastener etc.)	L.S. 02 Set
12.	Supply Erection and commissioning of Pipe Fittings (IBR) Flanges, Bend, Tee, Nipple etc. Size: 15NB, 20NB, 50NB.	L.S. 02 Set
13.	Supply Erection and commissioning of 5mm thk. MS duct as per existing dimension wherever is damaged to be replaced with new duct.	L.S. 02 Set
16.	ELECTRIC PANEL MODIFICATION: Supply Erection Commissioning of Electrical Panel modification Material for Re-Installation of Complete Electric panel with all cabling work, switches, which connecting with panel to various parts inside boiler house.	L.S. 02 Set
17.	All civil work for the complete installations.	L.S. 02 Set
18.	Existing Feed pumps, ID Fan, FD Fan will be used, the same can be replaced if higher capacity are desired as per design.	L.S. 02 Set

**Chief Executive Officer**  
**Bundelkhand Sahakari Dugdh Sangh Maryadit.**  
**Sagar**





# बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित

**BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT**

Sironja, Sagar - 470004, Madhya Pradesh

Phone : (07582) 281345

E-mail: [sanchimccsagar@gmail.com](mailto:sanchimccsagar@gmail.com)



Ref. BKDS/Eng./B1/ Boiler Repairing/Nivida/534/2021

Date : 16.09.2021.

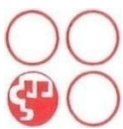
## SCHEDULE – IV

(Details of bidder to be submitted along with the offer)

I/We hereby furnish following particulars about our units:

- |  |   |                          |
|--|---|--------------------------|
| 1. Name of the Unit  | : | M/s                      |
| 2. Address of the Unit   | : | 1. Office                |
|  | : | 2. Factory               |
| 3. Name of Proprietor/Partner  | : | 1.                       |
| with mobile No. & email id.  | : | 2.                       |
| 4. Detail of Factory equipment/<br>machineries/ other facilities<br>which needed for repair Boiler.<br>Also furnish details of Engineers,<br>Technicians and their qualification   | : |                          |
| 5. Name with designation of<br>other person authorized to<br>Sign the documents on Behalf<br>of the unit, if any (Authority<br>letter should be Produced)<br>Telephone Nos. Office | : |                          |
| 6. Particulars of the Registration<br>Certificate Issued by the<br>Competent authority   | : | Registration No.<br>Date |
| 7. PAN Number/Service Tax number   | : |                          |
| 8. GST Registration number   | : |                          |

**Signature & Seal of the Bidder**



**बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित**  
**BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT**

Sironja, Sagar - 470004, Madhya Pradesh

Phone : (07582) 281345

E-mail: [sanchimccsagar@gmail.com](mailto:sanchimccsagar@gmail.com)



Ref. BKDS/Eng./B1/ Boiler Repairing/Nivida/534/2021

Date : 16.09.2021.

**SCHEDULE -V**

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

**CHIEF EXECUTIVE OFFICER**  
**BKSDSM, SAGAR**

**Date**

Dear Sir,

I/We furnish here below more particular about our Company/Unit which will form a part of our Tender rate submission against your Tender Notification No. Dated :

1. Items manufactured at our Unit : \_\_\_\_\_
2. Capacity of the Plant : \_\_\_\_\_
3. Is there any break in your production/  
business activities during the past 5 : \_\_\_\_\_  
years period? If so, give details thereof.
4. Your customers/client on current list : 1. \_\_\_\_\_  
: 2. \_\_\_\_\_  
: 3. \_\_\_\_\_  
: 4. \_\_\_\_\_  
: 5. \_\_\_\_\_
5. Have/Are you supplied/supplying :  
items of similar nature to any Dairies  
under coop. sector ? if yes to whom  
and how long ?

I/We hereby undertake that information furnished in the Tender documents is correct to the best of our knowledge and belief.

**Place:**

**Date:**

**Seal & Signature**  
**Authorized Signatory of the Co. /Unit**



# बुन्देलखण्ड सहकारी दुग्ध संघ मर्यादित

## BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT

Sironja, Sagar - 470004, Madhya Pradesh

Phone : (07582) 281345

E-mail: [sanchimccsagar@gmail.com](mailto:sanchimccsagar@gmail.com)



Ref. BKDS/Eng./B1/ Boiler Repairing/Nivida/534/2021

Date : 16.09.2021.

### SCHEDULE – VI

### PRICE – BID

SN	Description	Quantity	Place of Supply and Installation/work	Total Price (Rs.) (Including Supply, Erection, installation and commissioning Forwarding Transport charges, Loading, Unloading, Insurance)
1.	Material Cost for INSTALLATION & COMMISSIONING OF NEW COMMON CHIMNEY & INDEPENDENT WATER PREHRATERS & DUST COLLECTOR IN BOTH THE OLD BOILER REGISTYERATION No. MP 3732 & 3733 As Per Technical Specification Schedule – II and Schedule – III	As per Schedule-III	AT BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT SAGAR (M.P.) 470004	
2.	Labour Charges for Complete work for INSTALLATION & COMMISSIONING OF NEW COMMON CHIMNEY & INDEPENDENT WATER PREHRATERS & DUST COLLECTOR IN BOTH THE OLD BOILER REGISTYERATION No. MP 3732 & 3733 As Per Technical Specification Schedule – II and Schedule – III.	01 Job.	AT BUNDELKHAND SAHAKARI DUGDH SANGH MARYADIT SAGAR (M.P.) 470004	
3.	GST for Supply & Services @18% (If any)			
4.	G. Total Cost of Work (Rs.)			

In Words :

Note :

1. I/We have considered and included in our price quote that the legally bound deductions such as TDS/EPF/ESI etc.
2. For award of work overall L – 1 Rates shall be considered.
3. I/We also agree to the condition that these rates are remain valid for the period of with in 4 Month.

Signature & Seal of the Bidder