

**BHOPAL SAHAKARI DUGDH SANGH MARYADIT
HABIBGANJ, BHOPAL 462024**



**Design, Supply, Installation and Commissioning Of 510 ± 5%CFM Air
Compressor, Receiver of Required Capacity and Dryer with All
Accessories**

CHIEF EXECUTIVE OFFICER
BHOPAL SAHAKARI DUGDH SANGH MARYADIT
HABIBGANJ, BHOPAL 462024

	<p>BHOPAL SAHAKARI DUGDH SANGH MARYADIT HABIBGANJ, BHOPAL 462024 AN ISO 9001 : 2015 Certified Organization E-mail: engg.bsds@gmail.com, Phone 0755-2478250 Fax : 0755-2450896</p>
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Ref No: 38

Dated:29-08-2023

E-TENDER

Online Tenders are invited for **Design, Supply, Installation and Commissioning Of 510 ± 5%CFM Air Compressor, Receiver of Required Capacity and Dryer with All Accessories** at Bhopal Sahakari Dugdh Sangh from reputed manufacturer/distributor/dealer/suppliers. The tender documents containing the terms and conditions can be purchased online & downloaded through following website <http://www.mptenders.gov.in> from 30.08.2023 onwards. The tender will be opened in the office of the undersigned as mentioned in tender time schedule (key date). The detailed Tender Form can be seen (only for reference) at our HO website: www.sanchibhopal.com Any changes in tender documents will be notified on above website only and not at any other sources/platforms, hence bidders are requested to visit the site regularly. The Chief Executive Officer Bhopal Sahakari Dugdh Sangh Maryadit has all the right to accept or reject any or all bids.

Name of item	EMD (Rs)	Tender Fee (Rs)	Bid submission due date & time	Technical Bid opening Date & time
Design, Supply, Installation And Commissioning Of 510 ± 5% CFM Air Compressor, Receiver Of Required Capacity And Dryer With All Accessories	1,00,000/-	2000/-	19.09.2023 03:00 PM	20.09.2023 03:00 PM

CHIEF EXECUTIVE OFFICER



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TENDER DOCUMENT

Schedule I	:	General Terms & Conditions.
Schedule II	:	Specification & Qty & EMD
Schedule III	:	Form A
Schedule IV	:	Price Bid (Form-B)
Tender Cost	:	Rs.2,000 (Rupees two thousand only)
Place of opening of Tender	:	Meeting Hall of The Bhopal Sahakari Dugdha Sangh Maryadit, Bhopal.
Address for Communication	:	The CEO, Bhopal Sahakari Dugdha Sangh Maryadit, Bhopal 462024

CHIEF EXECUTIVE OFFICER

SCHEDULE - I
General Terms & Conditions for tender submission & supply

Bhopal Sahakari Dugdha Sangh Mydt, Bhopal (BSDSM), an ISO certified cooperative organization, invites online tenders from bonafide manufacturers and/ or their authorised dealers or other suppliers for Design, Supply, Installation And Commissioning Of 510 ± 5% Cfm Air Compressor, Receiver Of Required Capacity And Dryer With All Accessories strictly in adherence to the detailed specifications given in the schedule II of the tender documents.

Bhopal Sahakari Dugdha Sangh Mydt., Bhopal reserves the right to accept or reject any or all tenders, which in their opinion justify such actions, without further explanation to the tenderers.

1.0 DECLARATION

The submission of a tender by a tenderer 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 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 Tenders received by e-mail will not be considered. However, amendments by e-mail to a tender sent will be considered, provided the same are received before the opening of the tender
- 2.2 The tenderer(s) should clearly state in their offer the address, telephone, e-mail, PAN and GST Numbers. Any change in the address should immediately be communicated to the Chief Executive Officer, Bhopal Sahakari Dugdha Sangh Mydt, Bhopal and correspondence thereafter will be made at the changed address.
- 2.3 Negligence on the part of tenderer in filling the tender form offers him/her no right to withdraw the tender after it has been opened.
- 2.4 The acceptance of the tender and award of the purchase order will be the sole right of the Chief Executive Officer, Bhopal Sah. Dugdha Sangh Mydt. 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 tenderer.
- 2.5 The Chief Executive Officer, BSDSM reserves the right to place order for whole requirement with any tenderer or split the orders among one or more tenderers or not to purchase at all any item even after rate approval.
- 2.6 Each tender should be accompanied with copy of PAN, GST, Company/Firm Registration, ITR of 2 Financial Year (2021-22, 2022-23)

- 2.7 The tenderers should submit the rates online only. The conditional tenders are liable to be rejected.
- 2.8 No person or firm is permitted to submit more than one tender under different names.
- 2.9 The tenderer shall not sublet the contract or assign to any other party or parties, the whole or any portion of the contract without prior written permission of Chief Executive Officer, BSDSM.
- 2.10 Manufacturers will be given preference. Copy of license is to be attached with tender for each item filled in, wholesalers dealing with the item will have to attach copy of authorization certificate of the manufacturer.
- 2.11 Tenderer shall fill all the details of the unit in form- A in schedule-III. (To be uploaded – mandatory.)

Bid Validity

Bid shall be valid for a period of 90 days from the date of opening.

Documents composing the Bid

Technical bid: (To be uploaded online mandatory)

1. Form A filled with copy of PAN, GST, Company/Firm Registration or Factory License, ITR of 2 Financial Year (2021-22, 2022-23).
2. Online EMD transaction acknowledgement or EMD exemption certificate (if applicable see **Sr. No. 3.2**)
3. Authorization certificate of the manufacturing company.
4. Local Service center (surrounding area should be within 50 km) details along with technical bid are mandatory.

Commercial/Financial Bid

- Commercial/Financial Bid form online (submit online in excel format only)

Bid price

Price indicated on the price schedule shall be inclusive of pkg/frdg, freight. GST (to be shown extra)

3.0 Earnest Money Deposit (As per Schedule-II)

- 3.1 EMD should be submitted online only and attach copy of proof for payment of EMD in technical bid.

Note: - When submitting EMD online please note that you pay only the EMD of particular item you would like to offer the rate. By choosing “Yes” option (in mptenders.gov.in portal) so as to enable you for EMD exemption.

- 3.2 **MSME industries of The Madhya Pradesh State** will be exempted from payment of the EMD and tender fee of the tender. MSME certificate should be of relevant category of supplies/materials/works. (MSME Certificate to be uploaded online mandatory)

- 3.3 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.
- 3.4 No interest will be paid on the earnest money for the period during which (the EMD) lies in deposit with Bhopal Sahakari Dugdha Sangh.Maryadit.
- EMD may be forfeited :
 - If successful Bidder/supplier fails/denies to perform work
 - If any bidder/supplier withdraw its bid during the bid validity period

4.0 PRICES

- 4.1 Prices offered by the tenderers should be firm and free from all escalations and shall be valid at least for a period of 12 months from the date of approval of rates. BSDS will have the right to extend the validity of the tender approval by 6 months. We would communicate our rate approval within 60 days of opening of tender.
- 4.2 The tenderer should quote rate on FOR dairy plant Bhopal basis(GST extra)
- 4.3 If need be, negotiations will be done for prices and as well as terms & conditions of material supply only with the party which offers the lowest rate.
- 4.4 The prices charged for the material supplies under the contract by the supplier firm in no event shall exceed the lowest price at which the supplier firm sells the material of identical tender description to any other persons/ firms during the period and until the execution of all supply orders placed during contract period.
- 4.5 The lowest rate shall not be the only criteria for approving the tender.

5.0 MODE OF DISPATCH

- 5.1 The material to be supplied by successful firm shall be dispatched to the dairy under prior intimation. Depending upon the type of material, the supplier shall have to carry out proper packing/crating to avoid damage during transit.
- 5.3 Wharfage /Demurrage etc. on account of incorrect or delayed dispatch of material/documents shall be the responsibility of supplier and shall be recovered from the bills.

6.0 LIQUIDATED DAMAGES

- 6.1 The time period and the date of delivery of the material stipulated in the purchase order shall be deemed to be the essence of the contract. Once firm delivery dates are fixed for supply of material they shall be strictly adhered too. In case they are not followed, or in case of delay in execution or non-execution of the order, the Dugdha Sangh reserves the right either to cancel the order and make alternative purchases from other sources, at the risk and cost & expenses of the defaulting supplier. In case the supplies are not as per the schedules, the liquidated damages may be charged on the goods not so delivered as under:-

Sl.No.	Duration of delay	Liquidated Damages
1.	Upto 15 days	1% cost of the unit.
2.	Between 16 to 30 days	2% cost of the unit
3.	Beyond 30 days	Upto 5% cost of the unit.

- 6.2 If the tenderer fails to make supply as per purchase order without any valid reason, the order would be treated as cancelled and the firm may be blacklisted for future dealings and EMD also would be forfeited by the management.
- 6.3 If the qualified tenderer fails to make supply the materials as per specification/material quality approved by BSDS, BSDS Bhopal will have right to purchase materials from the other bidders whom participated in the same tender and willing to supply the material on L-1 approved rates for which BSDS will take the consent of other bidders too. The L-1 supplier fails to supply materials then the entire requirement shall be fulfilled through the other bidders and if the other bidders didn't agree to supply the material on L-1 approved rates the difference amount would be charged from deposited EMD or their pending bills of L-1 bidders.

7.0 INSURANCE

Insurance is to be arranged by the tenderer.

8.0 INSPECTION:

- 8.1 All the supplies are subject to inspection at our plant before acceptance. If goods are rejected due to defective or wrong supply, the report of our concern department 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 tenderer within 15 days after receipt of our inspection report failing which the same shall be returned to the supplier at his risk and expenses or disposed off in Auction and the proceeds, if any, less expenses would be credited to tenderer's account.

9.0 PAYMENT

- 9.1 90% against delivery of machine/equipments in good condition at Dairy Plant, Bhopal and after physical inspection, verification by concern department and after completion and successful trial run.
- 9.2 Rest 10% will be released after submission of Bank Guarantee equal to 10% of order value towards performance Bank Guarantee of one year from the date of commissioning.

10. TERMINATION OF CONTRACT:

If any act of commission or omission of a unit under contract brings Bhopal Sah. Dugdha Sangh Mydt. to dispute, then Bhopal Sahakari Dugdha Sangh Mydt. shall be competent to debar/blacklist the unit from further business.

11.0 CONSEQUENCES OF BREACH OF AGREEMENT:

If any firm under the contract commits breach of any of the conditions, it shall be lawful for the Chief Executive Officer, Bhopal Sahakari Dugdha Sangh Mydt. to cancel the contract and to purchase material from any other alternate sources on the risk and cost of the defaulting unit.

12. DISPUTE ARBITRATION & FINAL AUTHORITY:

- 12.1 It should be clearly understood that in the event of a successful tenderer failing to accept and execute the supply order, then decision of the Chief Executive Officer, Bhopal Sahkari Dugdha Sangh Mydt., in this respect will be final and binding on the successful tenderer.
- 12.2 In any case of dispute between material / services supplier and Bhopal Sahakari Dugdha Sangh matter will be presented to MD, MPCDF for resolution.
- 12.3 All disputes between renderers and BSDS matter will be put to MD, MPCDF for resolution. In case no resolution action will be taken as per Arbitration Act. 1996.
- 12.4 For all disputes, the venue for legal course shall be at Bhopal.
- 12.5 If the tender opening date become any govt. holiday then the next day may considered for tender opening.

*Chief Executive Officer
Bhopal Sahakari Dugdha Sangh Mydt. Bhopal*

SCHEDULE - II

Design, Supply, Installation And Commissioning Of 510 ± 5% CFM Air Compressor, Receiver Of Required Capacity And Dryer With All Accessories– 1 No.

1. AIR COMPRESSOR: (Cap-510 ± 5% CFM) – Qty.-01 nos.

(1.1) FUNCTIONAL REQUIREMENT

This is required for producing compressed air required for operation of pneumatic valves of silo and Milk process activities.

(1.2) DESIGN REQUIREMENT

- A. This shall be rotary screw air compressor for generation moisture free air at suitable pressure and required free air delivery. Compressor shall be advanced control system for capacity control and for performance monitoring with inbuilt VFD operated high efficiency (Eff. 1) motor or VSD. It shall be complete with intake filters, line filter and all standard accessories such as service valve, safety valve, auto drain valve, pressure gauge, and suitable drive motor & drive parts etc.
- B. Compressor shall be provided with a pressure switch for auto operation. **The capacity of receiver shall be sufficient to meet sudden large requirement of compressed air and to avoid frequent ON/OFF of compressor.** For removal of bulk of moisture from receivers, automatic drain valve with solenoid etc. to be provided.
- C. **Capacity of the compressor and its drier shall be suitable to take care of the load of compressed air for complete plant included bulk storage silo systems.**
- D. Measurement and recording of compressed air with totalizer shall be provided for total generation / usage. The data shall be made accessible at the central control room. A separate vortex type flow meter shall be provided for air consumption. The flow meter shall be with temperature / pressure correction facility and accordingly Pressure / Temperature transmitter would be required for the purpose. The system would be operated, monitored & control from local panel. FRL units shall be provided at all distribution headers near consumption points inside the plant.
- E. Exhaust ducting of GI to throw away the exhaust from compressor room will be in supplier scope
- F. Power will be given at one point only. Supplier has to provide cable panel/cables to distribute the power from that point to compressor and dryer.
- G. Civil foundation for compressor, Receiver, Dryer etc will be in supplier scope. Supplier has to provide drawing and technical detail before starting of civil work. The work has to be performed strictly as per instruction given by I/C Engineering or I/C Civil Engineering.

2. REFRIGERATED AIR DRYER

2.1 FUNCTIONAL REQUIREMENTS

Air drier would be required to provide moisture free compressed air for use in various equipment, controls & instruments.

2.2 DESIGN REQUIREMENT

The Air Dryer shall be refrigerated type, air cooled type and suitable /capable of handling requirement of air for complete plant at a Maximum Pressure of 16 kg/sq cm. It shall be fitted with a suitable CFC free reciprocating refrigerant compressor, using R134A Gas having a minimum pressure drop (0.35 bar) fitted with efficient compact copper tube in tube heat exchanger, with counter flow pattern, heat exchangers fully encapsulated with PUF insulation all housed under insulated box. The compressor shall deliver air quality of +3 deg C PDP all housed in a sound reducing enclosure.

Operating conditions	Desired	Maximum
Inlet Temperature	45 ° C	60 ° C
Ambient temperature	40 ° C	50 ° C
Inlet pressure	7 bar (gauge)	16 bar (gauge)
Pressure Dew Point	3 ° C	NIL
Operating Pressure	5 bar	10 bar

Capacity of the compressor drier shall be suitable to take care of the load of compressed air for complete plant included bulk storage silo systems supply of Air compressor with receive dries and filters.

3. SCOPE OF SUPPLY

The Air drier should be provided with the following:

- Air inlet connection
- Air outlet connection
- Air inlet strainer
- Cyclone condensate separator
- Pressure dew point meter
- Air-drying unit insulating block housing Air-to-Air heat exchanger, air to refrigerant heat exchanger/evaporator, cyclone condensate separator, liquid separator, refrigerant distributor, and refrigeration injection restrictor.
- Condensate trap with automatic discharge
- Manual drain valve for condensate & auto drain valve (timer based)
- Water cooled condenser
- Safety switch, High & Low pressure
- Liquid refrigerant dryer
- Liquid shut off valve
- Liquid refrigerant receiver
- Liquid separator
- Sight glass with moisture indicator
- Refrigerant expansion valve
- Refrigerant circuit access connection
- Hose, automatic condensate discharge
- Civil foundation

4. GENERAL CONDITIONS

(4.1) Bidder shall nominate an experienced engineer (called Project Engineer) who shall be responsible for activities of supply and installation in office and site. The services of the Project Engineer shall be ensured for the day to day operations and coordination to ensure successful and satisfactory design, procurement, manufacture, inspection, erection, testing and commissioning of all the equipment/facilities/systems within the time- bound schedule.

(4.2) The purchaser shall also nominate a Project In-charge/concerned person of BSDS with whom the bidder shall communicate/coordinate.

(4.3) The bidder's Project Engineer will provide to In-charge/concerned person of BSDS with progress reports which clearly indicate the actual Vs planned progress and the new likely completion date of supply, erection and commissioning of the equipment.

(4.4) For indigenous items, the bidder shall invite concerned person of BSDS department for inspection and preliminary testing. The inspection may be required at various stages of manufacture / assembly for some items. For imported items, the purchaser has right to inspect the equipment at manufacturer's works prior to dispatch. However, bidder shall do the inspection and submit the necessary test certificate.

(4.5) The Project / Site Engineer of bidder shall be fully authorized to take on the spot decision with regard to:

- a. Modification in layout and execution programmed to suit local conditions.
- b. To purchase essential materials from local market to avoid delays.

(4.6) For smooth execution of the project, the bidder's team consists of Project Engineer/Site Engineer and key Personnel shall remain consistent throughout the execution for (4.5) period.

(4.7) After satisfactory erection and testing, competent commissioning team shall be deputed to establish the performance parameters for a specific period.

5. TESTING AND COMMISSIONING

After installation of all equipment and completion of piping and connection of all utilities equipment shall be tested at no load after checking all alignments. On completion of satisfactory no load test, the plant as a whole shall be tested with full load to the satisfaction of concerned dept. of BSDS.

6. ESTABLISHING PERFORMANCE GUARANTEES

On completion of supply, erection, testing and commissioning of the equipment, the same has to be operated at full capacity continuously in 3 shifts of 8 hours basis for seven days to the satisfaction of the concerned dept. of BSDS, to establish performance guarantees

provided by the bidder. However, if concerned dept. of BSDS are unable to provide operating staff for three shifts, number of days can be increased with mutual discussions.

7. TRAINING

Training in the operation and maintenance of the equipment shall form an important component of Project Management. Training shall be undertaken by the bidder for a period of one month during which the bidder should guide and train the staff of the purchaser in operation and maintenance of the equipment to achieve the optimum plant efficiency and product quality.

Training should commence during the testing / commissioning period and shall include:

1. Familiarization with all major/minor components of equipment including the operation of auto systems.
2. Procedure for attaining the rated output and optimum product quality.
3. Familiarization with the basic principle of Electronic / Electrical control systems, including fault finding.
4. Familiarization with start-up procedures, regular maintenance and operational procedures including dismantling of machine parts, replacement of spares / components, preventive maintenance etc.
5. Condition monitoring of equipments.
6. Generating production and maintenance log sheets of important equipment and systems.

Training shall be given to all the personnel required to operate the plant equipment and their immediate Supervisors / Engineers. The training schedule should be proposed by the bidder along with the content of training, their duration etc.

8. STANDBY SERVICES AFTER COMMISSIONING

Once the commissioning and warranty runs are over and the plant is taken over by Project Authority, the bidder of the machine shall provide to the plant standby technical supervisory support as follows:

- For one month after warranty runs in which further training of the Purchaser / Project Authority's operating staff shall be done and equipment/system still needing finer adjustment / changes shall be carried out.
- For a week each after 4 months, 8 months and 1 year from warranty runs, to have discussions with plant staff and assistance to review the correctness of operations / maintenance procedures and necessary corrections.
- These visits of the Bidder are other than those covered under guarantee / warranty clause which shall be undertaken whenever required separately.

9. LIST OF DRAWINGS AND DOCUMENTS

The bidder to provide drawing / data and technical details with their quote as specified.

After commissioning and during handing over of the plant by Bidder to concern dept of BSDS, the bidder to provide the following:

- As executed final drawings and technical data of the complete equipment/machine for operation, maintenance and permanent record in soft (in AUTO CAD) and 3 sets of hard copies.
- The final software and source codes of the systems.
- A consolidated operation and maintenance manual-3 sets of the complete equipment/machine along with operation and maintenance of each key components as provided by manufacturer.

10. PERFORMANCE GUARANTEES

The bidder's has to provide One year Guarantee of the performance of the machine.

If the equipment / machine or any part thereof does not give the offered process performance, capacities and consumption guarantees as confirmed in design data and technical data given by bidder during the commissioning and within One Year of warranty period suitable recovery shall be made by concerned person from bidder's bill.



**BHOPAL SAHAKARI DUGDHA SANGH MARYADIT,
HABIBGANJ, BHOPAL 462024**

SCHEDULE – III

**Form – A
(To be uploaded -mandatory)**

Chief Executive Officer
BSDSM, Bhopal

Date:

Dear Sir,

I/We hereby furnish below some particulars about our company/unit which will form a part of our offer submission:

1. Name of the Co./Unit : _____
2. Address of the Co./Unit : _____
3. Telephone Nos.(with STD Code) : _____
FAX No. : _____
Email ID : _____
4. Name of the CEO/Proprietor / Partner : _____
5. Name and designation of other Authorized signatory of the Co./Unit : _____
6. Particulars of Regn. Certificate Issued by the competent authority (Regn No. & Date) : _____
7. We are manufacturer/distributor/dealer/supplier ofCo.(with proof)
8. GST NOdtd.....
9. PAN Number (Permanent Account Number- Income Tax) _____
10. Have your Co./Unit or its sister concern ever been black listed/ debarred by BSDSM or its sister Milk Unions or GOI /GOMP & its undertaking ? YES / NO
11. I/we have read the full specification/dimensions/conditions of packaging material and agree to supply material with same specification after order and with all the necessary certificates.
12. I/we have read the terms and conditions of the tender document which are acceptable to me/us. No additional condition deviation or point of difference has been given by me/us. I am **Proprietor/Manager/Director**of the tendering firm and have been authorised to submit the authority letter in this regards is enclosed herewith.

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



**BHOPAL SAHAKARI DUGDHA SANGH MARYADIT
HABIBGANJ, BHOPAL 462024**

SCHEDULE – IV

**Form – B
(Price bid Format)
(To be submitted Financial Bid Online only)**

NIT Ref. No.	
NAME OF TENDERER:	

S.No	Item	Rate/unit F.O.R Dairy GST Extra.
		---submit online in the prescribed BOQ in Excel format only---

Note:

1. Purely indicative for e-tender as the rates are required to be filled on these lines in **the prescribed BOQ in Excel format.**
2. Requirement shown above is tentative and it can be increased or decreased depending upon situation prevails at the time of processing P.O.

BIDDER'S CHECK LIST BEFORE TENDER SUBMISSION

(To be uploaded all mandatory documents scanned copy with seal and sign, online mandatory)

S. No.	Tender Submission Check Points (mandatory documents)	Check before submission (write Yes or No)
1.	Online tender Fee and EMD payment transaction acknowledgement or EMD exemption certificate copy	
2.	Form A (with seal & sign)	
3.	The Authority letter on letter head (with seal & sign) as per Clause no.12 of Form-A, Schedule-III.	
4.	PAN Card Copy (with seal & sign)	
5.	GST Certificate Copy (with seal & sign)	
6.	Company/Firm Registration or Factory License Copy (with seal & sign)	
7.	ITR of 2 Financial Year (2021-22, 2022-23) (with seal & sign) (any two)	
8.	Authorization certificate of the manufacturing company along with local service center details. (local service center surrounding area should be within 50 km)	
9.	Any Other documents (with seal & sign)	

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