

TENDER NOTICE

Sealed Tender offers are invited for supply, installation & commissioning of milk silo - 2 no. having 50 KL capacity at our Boravade Chilling Center, Tal. Kagal Dist. Kolhapur. Specifications, scope of work and Terms - conditions of Tender are available on our web site www.gokulmilk.coop Tender offer is to be submitted on or before **30.09.2025**. Right to accept or rejects any or all Tenders without assigning any reason is reserved.

Managing Director Chairman
Kolhapur Zilla Sahakari Dudh Utpadak Sangh Ltd.,
B-1, M.I.D.C., Gokul Shirgaon
Tal. Karveer, Dist. Kolhapur - 416234

KOLHAPUR ZILLA SAHAKARI DUDH UTPADAK SANGH LTD., KOLHAPUR

General Terms & Conditions of Tender

(For supply of 1 milk of 50 KL capacity)

Kolhapur Zilla Sahakari Dudh Utpadak Sangh Ltd., Kolhapur invites Tender offer for supply, installation & commissioning of 2 No of 50 KL capacity milk silo . This silo is to be installed at Boravade (Bidri) Chilling Center, Tal. Kagal, Dist. Kolhapur. General Terms & conditions of this Tender are as under.

- 1) Specifications & scope - Detailed specifications of required and scope of work are given in Annexure - I attached herewith. Tenderer should study specifications before submitting their Tender offer.
- 2) Tenderer should have experience of design, fabrication & supply of milk above 50 KL capacity. Documents of experience must be submitted alongwith the Technical offer.
- 3) Technical offer and commercial offer should be sent in a separate covers duly marked as COMMERCIAL OFFER and TECHNICAL OFFER respectively. Sealed envelopes of Commercial offer & Technical offers to be put in a Common. Sealed Tender offer duly marked **TENDER FOR MILK SILO** alongwith requisite EMD should reach our Gokul Shirgaon, Kolhapur office on or before **30.09.2025**.
- 4) Tenderer shall have to pay Earnest Money Deposit of 80,000/- (Rs. Eighty Thousand) for this Tender in the form of Demand Draft / RTGS issued in favour of Kolhapur Zilla Sahakari Dudh Utpadak Sangh Ltd., Kolhapur OR RTGS

RTGS Details -

Name of Project Authority	Kolhapur Zilla Sahakari Dudh Utpadak Sangh Ltd., Kolhapur
Address of Project Authority	B-1, MIDC, Gokul Shirgaon, Tal Karvir, Dist. Kolhapur, State Maharashtra Pin Code 416 234
Name of Bank	Bank of Maharashtra
Bank A/c No.	60182028384
IFSC Code	MAHB0001575
Branch Name & Address	B-1, MIDC, Gokul Shirgaon, Tal Karvir, Dist. Kolhapur, State Maharashtra Pin Code 416 234

- 5) Price offered by Tenderer should be valid for a minimum period of 3 months from the date of submission of Tender offer.
- 6) Payment Terms
 - a) 30% advance of total contract value alongwith the purchase order after getting order acceptance and on submission of Bank Guarantee of equivalent amount.
 - b) 40 % payment of supply items alongwith GST will be released after safe receipt of at our site.
 - c) 20 % payment will be released after satisfactory installation & commissioning

of Milk .

d) Final 10% of total contract value will be released after one month satisfactory working of installed & Submission of Performance Bank Guarantee of Nationlized bank for same amount valid for one year from date of completion of work

- 7) Inspection - Stagewise inspection during the fabrication & mannufacturing stages of ordered will be done by our Engineers.
- 8) Right to accept or reject any or all Tenders without assigning any reason is reserved.
- 9) In case of any dispute, Kolhapur will be the Jurisdiction.

Managing Director

KOLHAPUR ZILLA SAHAKARI DUDH UTPADAK SANGH LTD., KOLHAPUR

TECHNICAL SPECIFICATION FOR 50 KL MILK VERTICAL

Annexure - I

1. SCOPE OF SUPPLY

Supply of 50 KL Vertical Milk Storage Silo with side entry agitator .

2. FUNCTIONAL REQUIREMENTS

The milk silo would be used to store chilled raw / pasteurized milk at 2 TO 4 Deg centigrade temperature and silo shall be installed outside. The stored milk temperature shall not increase more than 1 deg C in 24 storage hours.

3. DESIGN REQUIREMENTS

Capacity: 50,000 Liters.

The volume of the tank shall be such that after filling it up to the rated capacity, the level would be 100 mm below the line where cylindrical shell joins the conical top so that spray ball should not touch the product in any case when the level is 50,000 Liters.

Constructional Features:

The tank shall be double walled, Insulated and welded construction of sanitary design. The vessel configuration shall be vertical, cylindrical and shall be placed outside.

Slope:

The bottom of the silo shall have 1:15 slope towards inlet cum outlet for free and complete drainage of liquid.

Metal Contact:

The only metal-to-metal contact between the inner and outer shells shall be at the places where fittings for the tank are provided. At the places where mild steel stiffeners are provided, insulated padding shall be fixed between the inner stainless steel shell and stiffeners.

Finish: The outer and inner finishing of silo must be smooth finish. The joints shall be perfectly matched and welded. The workmanship at level transmitter, sampling cock and Agitators' V notch shall be perfect and smooth welding work at these areas is required

Internal Surface : Original 2B Mill Finish / 150 Grit Finish.

External Surface : Original 2B Mill Finish with all burs removed.

Weld-joint : Ground smooth & finished to 150 Grits.

MS Stiffener : Two coats of epoxy primer after proper de-rusting.

Joint Curvatures:

The radius of all welded and permanent attachment joints shall be at least 6 mm. where the conical top and flat bottom join the cylindrical shell and radii shall not be less than 25 mm.

4. Material of Construction Thickness of the silo shall be as under :

Inner slopping bottom : 5.0 mm, AISI 304.

Inner Cylindrical Shell : 3 mm, AISI 304.

Inner conical top : 3.0 mm, AISI 304.

Outer Cylindrical Shell : 2.0 mm, AISI 304

Outer conical top : 3.0 mm, AISI 304.

5. Insulation:

The entire inner shell, conical top (Including alcove) shall be insulated as follows: Outer side of Inner shell and inside of outer shell shall be coated with two Coats of Black

Bituminous Paint.

1st layer - 15 mm thick Polyurethane Foam Slab (PUF) applied radially having density 35 Kg/m³.

2nd layer - 50 mm thick Expanded Polystyrene foam (EPS) applied radially having density of 20 Kg/m³.

3rd layer - 50 mm thick Expanded Polystyrene foam (EPS) applied longitudinally having density of 20 Kg/m³.

4th layer - Finally aluminum foil of 0.07 mm thickness shall be covered over the Insulation. This is for the Moisture control.

The insulation shall be applied in staggered joints. All joints shall be sealed with bitumen.

The Bottom shall be insulated with PUF Injection having density of 65 to -70 Kg/m³

Suitable stiffeners shall be provided as per approved design. All the cladding joints shall be welded in design. The bottom channel shall be grouted after installation, so that there is no gap between the bottom channel & the bottom cladded shell, in order to avoid rusting at latter stage.

6. Accessories

Alcove:

The alcove arrangement size is H-2000 mm X 1500 mm (2.5mm thick AISI 304) and projecting 900 mm from the silo. Front folding size 50 mm. Out let of milk line 300 mm above alcove bottom.

The Alcove shall be provided in welding construction.

Side Agitator:

Side mounted mechanical agitator of IDMC Make having 0.75HP @ 142+/-15% RPM, IE3 motor shall be provided. provision of cut of and start the agitator on low level and high level. The Seal mechanism of Silo Agitator must be such that in case of seal leakage, user can change the seal from inner side of silo without opening the entire Agitator Set with motor i.e. opening the flanges' bolt of Agitator motor

Inlet cum Outlet:

A manual operated 76mm diameter Butterfly valve having one end Flange & other end SMS weldable union connection shall be provided one 63.5 mm threeway valve with SMS weldable union 1 nos and watch glass of 76 mm dia with both side union quantity 1 nos and reducer to connect 76 x 63.5 mm existing pipe

Air Vent:

Stainless steel (AISI 304) 450 mm dia. Standard design air vent to prevent formation of partial vacuum during CIP and pressure during filling. Stainless steel (AISI304) bracket shall be provided near the air vent for fixing and hanging rope ladder.

Man-way:

Stainless steel (AISI 304) side elliptical man-way of 405mm x 550mm diameter of and located at the bottom of the silo and provided with air tight hinged insulated stainless steel (AISI 304) door with tightening and locking device.

Sight Glass:

Stainless steel (AISI 304) sight glass assembly of 140mm dia. shall be provided with toughened glass. It shall be provided in such a way that one can easily read from the lowest level up to the highest level marks.

Light Glass:

Stainless steel (AISI 304) light glass assembly of 140mm dia. shall be provided with toughened glass and stainless steel lamp shade for mounting 24V, 100 watt bulb.

Spray Ball:

Removable stainless steel (AISI 304) Stationery spray ball shall be provided for flooding of liquid over the complete interior surface during CIP. It shall have stainless steel SMS weldable union at the outer end connection.

Sampling Cock:

Sampling cock shall be provided on the Inlet, cum Outlet and will be stainless

steel constructions of sanitary design. It shall be ensured that there shall not be any leakage when the silo is completely filled.

Thermowell:

Stainless steel (AISI 304) inclined pocket suitable for monitoring stem type dial thermometer / temperature sensor shall be suitably located in the alcove.

Provision for Level Probes socket:

1" Direct BSP Socket shall be provided for the Mounting of High Level Probe, Low Level Probe & Agitator cut off level Probe.

Provision for Level Transmitter:

A sanitary type liquid level indicator and transmitter shall be provided. All the milk contact parts shall be of SS 304. The liquid level transmitter shall be differential pressure transmitter of E&H make. Suitable LED type level indicator with mounting arrangement shall be provided to indicate the milk level in the silo. The instrument work on 230 v single phase AC supply with duly calibrated and accuracy of $\pm 0.25\%$. Level transmitter (Electronic): Electronic level indicator cum controller of hydrostatic type having accuracy of $\pm 0.25\%$ and should be of digital type, 24 volt DC, and (4-20 mv) outputs, 2-wire system. To be provided of Endress+Hauser make. --1 No.

Probes: Supplier has to provide the High Level Probe Socket, Low Level Probe Socket and Agitator Cut off Level Socket with suitable dummies.

Lifting Lug:

Stainless steel (AISI 304) lifting lugs shall be provided at top - 4 Nos.

Stiffeners:

Necessary stiffeners shall be provided and fabricated from MS. Bottom Structure support shall be provided as per standard design and fabricated from MS. Stiffeners are to be made sufficient to minimize the bending effect on bottom plate.

Sand blasted Level Marking:

It shall be calibrated at 500Ltrs. Interval provided on the inner shell at opposite side of sight glass & should be clearly visible from sight glass.

Bird cage: The necessary bird cage of height in SS304 mesh of 1 mm thickness having 15 mm dia of hole. with necessary support to avoid bird entry on silo. Height of cylindrical mesh-2400 mm. vertical support for cylindrical mesh in SS 304 pipe 38 mm dia of 6 nos. Horizontal supporting round ring in SS304 pipe of 25 mm dia at every 800 mm distance. Top supporting pipe of 38 mm dia in SS304. Door in SS mesh of size 700x1700 mm with necessary locking system. Bottom of mesh having SS flat 3 mm thickness and 100 mm width in SS 304. Suitable height of conical cap on cylindrical mesh is in SS plane sheet in 3 mm thickness with SS supporting angles of 35x35x3 mm at 4 places

Paintings:

All the mild steel stiffeners used in the construction of the silo shall be painted with two coats of epoxy primer after thorough de-rusting.

Ladder: ladder shall be provided for the approaching top of the silo in SS304. ladder design should be safe.

7. TESTS

The following tests shall be conducted by the supplier at works only.

Dye penetration test for weld joints.

Water fill-up test of inner vessel for water tightness before insulation.

Final inspection prior to dispatch including agitator trial needs to be provided.

When man-way is closed and covered tightened without gasket then the gap at any place

between the man-way neck and cover shall not exceed 0.5mm.

List Of Accessories Supplied with Silo:

1 Manual operated two way butterfly valve - MOC : SS 304, Size : 76 mm with one end Flange and other end SMS union.- 1nos IDMC make and three way valve 63.5 mm with SMS weldable union 1 no .

- SS three way valve with sms union 1 no and reducer of 76 x 63.5 mm to connect the existing pipe 1 no I DMC make.
- 2 Sampling valve - MOC : SS 304, IDMC make 1 no
- 3 Stationery spray ball, Make: IDMC. 1 no
- 4 Side mounted agitator as per specification. 1 no IDMC make 0.75HP @ 142+/-15% RPM, IE3 motor

8)BATTERY LIMITS & EXCLUSIONS

1. All types of civil works shall be done by the customer scope.
2. The foundation for direct placement of Silo is in customer scope.
3. Supply and installation of all product and utility piping are excluded from the scope of supply.
4. Unloading, positioning and Installation and commissioning of silo shall be in Suppliers scope.
5. Anything not specifically mentioned in our offer is included from your scope of supply.
- 6) You have to submit technical bid and commercial bid in separate envelope

9) GENERAL TERMS AND CONDITIONS

DELIVERY:

3 months after receipt of PO with advance and approved GA drawing whichever is later.
(A) The delivery period shall commence from the date of receipt of formal order with all technical and commercial details and clarification

GUARANTEE:

The supplier guarantees that the goods manufactured and delivered will be free of defects in material and workmanship for a period of twelve (12) months from the date of final commissioning . Guarantee for leakage, malfunction of any leakage e.g. From Agitator, man way etc.→

Visit of bidder

1) Bidder should visit the milk chilling center site A/P- BORAWADE. District- KAGAL State -Maharashtra to check the available space for removing of existing silo and installation of new silo and existing alcove sizes ,side agitator mounting space, ladder provision before submission of tender.

2) Installation

It is outdoor installation. The accessories mounted out side should be weatherproof & water proof.

3) Drawing

You will submit a detail drawing (GA Drawing) with all technical specifications (03 Jumbo Copies) along with acceptance letter of PO if issued to vendor. Gokul will approve the Final GA Drawing of 50 KL Milk Silo and after approval, vendor has to start the Fabrication job.

4)Supplier has to provide the Test Certificates of all bought out items. The Test Certificates of SS and MS materials to be used for Silo Fabrication must be submitted by Vendor without fail.

5)For necessary installation of silos

Unloading & loading of new silos at site is in Supplier scope. All work to be carried out at site as per safety norms of Government act. All insurance relate to execution of this job is in Supplier scope i.e. transport &shifting insurance. Till installation & commissioning.

6) Job completion period must be mentioned by Supplier in bid itself.

7) Supplier has to visit the site before submission of bid without fail at its own cost. Site

visit is compulsory to see the space availability for Crane .if site visit is not done then quotation will not be considered.

8) Gokul representative will visit the suppliers' workshop for material inspection, for ongoing fabrication job and for final tests of silos as mentioned above. Successful bidder shall in form gokul for stage wise inspection.

9) Gokul will provide the electricity, water at site at one point while supplier has to make arrangement for tools and tackles as well as lodging and boarding at outside the dairy campus for their employees.

10) Eligibility criteria

1) Minimum five numbers of such silo of 50 KL & above capacity have been supplied from last three years & should submit satisfactory completion certificate of client.

2) Turnover of supplier company must be 3 croers at every year from last 3 financial year (2020-21,2021-22,2022-23).

Asst Manager(Engg)

Manager(Engg)

Manager(Dairy)

General Manager(Dairy)

FORMAT
(Technical offer)

To,
The Managing Director
Kolhapur Zilla Sahakari Dudh
Utpadak Sangh Ltd.,
B-1, M.I.D.C., Gokul Shirgaon,
Dist. Kolhapur - 416 234

Sub - Technical offer for supply, installation & commissioning of milk silo

Dear Sir,

With reference to the Tender Notice published in Daily _____ on _____, I/we submit our Technical offer as regard supply, installation & commissioning of milk silo - 2 no. having 50 KL capacity at our Boravade Chilling Center, Tal. Kagal Dist. Kolhapur. We have thoroughly studied specifications of required silo & scope of work.

Yours faithfully

Signature & seal of Tenderer

Encl. -

- 1) D D or RTGS details towards EMD (Scanned copy is attached)
- 2) Company profile (As per given format)
- 3) Technical details including deviations of any
- 4) Information as regards previous experience (Alongwith documents)

FORMAT

COMPANY PROFILE

Name of the Tenderers	-	
Address	-	
Tel. Nos.	-	
web site	-	
E - mail	-	
GST Registration No.	-	
Name of Authorised Signatory	-	
Designation of the authorised Signatory	-	

Seal & Signature of Tenderer

FORMAT
(Commercial offer)

To,
The Managing Director
Kolhapur Zilla Sahakari Dudh
Utpadak Sangh Ltd.,
B-1, M.I.D.C., Gokul Shirgaon,
Dist. Kolhapur - 416 234

Sub - Commercial offer for supply, installation & commissioning of milk silo

Dear Sir,

With reference to the Tender Notice published in Daily _____, I/we submit our Commercial offer for supply, installation & commissioning of milk silo - 2 no. having 50 KL capacity at our Boravade Chilling Center, Tal. Kagal Dist. Kolhapur. We have thoroughly studied specifications of required & Term - conditions of this Tender. We agree upon specifications as well as Terms & conditions.

A) Total Bid price (2 Silos) - Rs.

(Total Bid price in words Rs. _____)

(Price schedule is attached herewith)

B) Period required for supply -

Place

Date

Seal & Signature of Tenderer

FORMAT

PRICE SCHEDULE

PRICE DETAILS (Price in Rs.)

1.	Basic Price of 2 nos silos	Rs.
2	Installation - Commissioning charges	Rs.
3.	GST	Rs.
	Total Unit price (i.e. 1 + 2 + 3)	Rs.

Total Price of Silos- Rs. _____

(Total Bid price in words Rs. _____)

Seal & Signature of Tenderer