

VAISHAL PATLIPUTRA DUGDH UTPADAK SAHKARI SANGH LIMITED

PATNA DAIRY PROJECT

Feeder Balancing Dairy Complex, Phulwarisharif, Patna-801505

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VPDUSS-SOP-8.5.1.2-01.F02

PDP:PUR:FBD: 1 3313

DATE- 07.03.2026

Dear Sir,

We are interested in **Supply, Installation, Testing & Commissioning (SITC) of Ice Cream Ageing tank of 05 KL Capacity** at Feeder & Balancing Dairy , Patna. **Details Specification and Scope of work as per Annexure - 01.** If interested to Supply, Installation, Testing & Commissioning (SITC) of **Ice Cream Ageing tank of 05 KL Capacity** to submit your offer latest by **20.03.2026**. Approved make for Supply, Installation, Testing & Commissioning (SITC) of **Ice Cream Ageing tank of 05 KL Capacity** – IDMC Ltd./Gemak Engineering Solution/Maheshwari Tecnology.

All rates must be F.O.R. **FBD, Patna** on door delivery basis. (**PR No. 2300002728 dt. 18.02.2026**)

Note:- Quotation validity for 30 days.

Note :- Our payment terms is 100% after delivery of material within 30 days of supply.

Delivery – Within 30 days.

Thanking You

Yours faithfully

Dy. Manager(MM)

VAISHAL PATLIPUTRA DUGDH UTPADAK SAHKARI SANGH LIMITED

(Patna Dalry Project)

Feeder Balancing dalry Complex, PHULWARISHARIF, Patna, 801505

(An ISO 22000:2005 certified organization)

Phones: 2252553, 2252542, 2251622, Fax: 0612- 2250 325

E-mail-vpmunin@gmail.com

GST No. – 10AAAV8463B1ZV

TECHNICAL SPECIFICATION OF 05 KL ICE CREAM AGEING TANK -01 NO. WITH ALL ACCESSORIES FOR VPMU PATNA.

QUANTITY Required: 01 Set

1.0 **SCOPE OF SUPPLY:** Supply of Ice cream mix storage cum ageing tank, Cap- 5 Kl.

2.0 **FUNCTIONAL REQUIREMENTS:** Ice cream mix shall be stored in this tank at a temperature of 4-6 deg.

3.0 **DESIGN REQUIREMENT:**

Capacity: 5,000 Ltrs. The volume of the tank shall be such that after filling it up to the rated capacity, the level shall be 100 mm below the line where cylindrical shell joins the conical top.

4.0 **CONSTRUCTIONAL FEATURES:**

- Vertical, Triple walled, having **Pillow Plate jacketed**, top mounted agitator, insulated and welded construction of sanitary design.
- **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.
- **Finish:** Inner and outer surface of tank shall be 2B Mill Finish. All welding joints shall be ground smooth to polished to 150 grits.
- **Joint Curvatures:** The radii of all welded and permanent attachment joints shall be at least 6mm. Where the conical top and conical bottom join the cylindrical shell, the radii shall not be less than 25mm.

5.0 **MATERIAL OF CONSTRUCTION & THICKNESS:**

Inner cylindrical Shell	3.0 mm, AISI 304
Inner conical Bottom	3.0 mm, AISI 304
Inner conical Top	3.0 mm, AISI 304
Pillow Plate jacket outer	1.0 mm, AISI 304
Outer cylindrical Shell	2.0 mm, AISI 304

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Outer conical Bottom	2.5 mm, AISI 304
Outer conical Top	2.5 mm, AISI 304

- **Pillow Plate Jacket Body:** The pillow plate jacket on inner shell and bottom cone shall be fabricated from 3 mm thick and pillow plate outer shell shall be 1mm thick from stainless steel sheet conforming to AISI 304.

- **Insulation:**

Layer 1	15 mm thick Polyurethane having density of 30-35 kg/m ³ .
Layer 2	50 mm thick polystyrene foam applied with bitumen having density 16-20 kg/m ³
Layer 3	50 mm thick polystyrene foam applied with bitumen having density 16-20 kg/m ³
Layer 4	Finally Aluminum foil 0.07 mm thick shall be applied over shell side insulation Outside of inner shell and inside outer shell shall be applied two coats of black bitumen's paints.

- **Inner shell stiffeners:** All stiffeners used between inner shell and outer shell shall be of SS 304.

6.0 ACCESSORIES:

- **Inlet & Outlet:** 51 mm Inlet and Outlet pipe with SMS union stainless steel (AISI-304) shall be provided.
- **Air Vent:** Stainless steel (AISI 304) 150 mm dia. air vent shall be provided to prevent formation of partial vacuum during CIP and pressure during filling--1No.
- **Man way:** Stainless steel (AISI 304) man way of 450 mm diameter and located at conical top of the tank.
- **Agitator:** The complete top mounted agitator assembly shall be fabricated from stainless steel of (AISI 304) with Geared Motor to able uniformly mixing and

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agitation of the mix. The agitator shaft shall be made of SS304 rod.

- **Spray ball:** Removable stainless steel (AISI 304) rotary spray ball located on conical top at either sides of the agitator drive to provide flooding of liquid over the complete interior surface and agitator during CIP. It shall have stainless steel union at the outer end connection.
- **Jacket Connection:** Jacket inlet & outlet connection made from SS 304 pipe.
- **Jacket Safety valve:** Safety valve shall be provided for the Jacket.
- **Light glass and sight glass:** Stainless steel (AISI 304) light glass and sight glass shall be provided at top of tank.
- **Sampling cock:** Stainless steel (AISI 304) sampling cock shall be provided at outlet pipe.
- **Provision for Level Probes & Transmitter:** Suitable connection shall be provided for two Nos. of level probe for High level and low level, as well Level transmitter.
- **Thermo well:** Stainless steel (AISI 304) inclined pocket suitable for mounting stem type digital thermometer. It should have 25 mm pipe with 3/8" BSP.
- **Legs:** Cylindrical pipe legs with Ball feet shall be provided. Legs shall be fabricated from stainless steel (AISI304) of suitable size Schedule 10 SS pipe. The stainless-steel ball feet shall have provision of height adjustment of 50mm. – 4 No.
- **Lifting Lugs:** Stainless steel (AISI 304) lifting lugs shall be provided at top. – 4 Nos.
- **S.S. Top Railing:** SS top railing shall be provided with 38mm SS304 pipe 38.1 & 25mm support pipe to 1000 mm height with SS toe guard (3mm Thk. X 100mm Width) at the top of tank. The railing shall be supplied by loose and will be fixed at site in to the socket welded on the top conical end.

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LIST OF APPROVED MAKE:

Sr. No.	Description	Make
1.	Manual valve - MOC: SS 304, Size: 51 / 63.5 mm with one end flange & other end SMS weldable union end connection.	IDMC/ Alfa Laval/ Swastik.
2.	SS PIPES	RATNAMANI/ BHANDARI FOILS & TUBES/ RENZA/ NEEKA TUBES/ APEX TUBES/ JINDAL/ SUBHLAKSHMI/ MAXIM.
3.	Geared Motor/ Gear Box	PBL/ RADICON/ SHANTHI GEARS/ IC BAUER/ BONFIGLIOLI/ EURO DRIVES

7.0 TESTS: The following test shall be conducted by at supplier works:

- Dye penetration test for welding joints.
- Water fill-up test for water tightness for the inner.
- Final inspection prior to dispatch including agitator trial.

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[Signature]
 13/02/26