Sri Vijaya Visakha Milk Producers Company Limited

Akkireddy Palem, BHPV(Post),Vishakhapatnam-530012, Andhra Pradesh

GSTIN 37AAJCS7398P1Z4 TIN/CST NO: 37132885261 Phone : 0891-2517230

Excise Regn.No: AAJCS7398PEM001 Fax : 0891-2757708

CIN : U15209AP2006PTC048708 Email : purchase@visakhadairy.com

Vendor Code: V02116

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Ph. 0 Email ID :

PURCHASE ENQUIRY

ENQUIRY No : PEQE8-25-254 Date : 02-02-2026

Indent No: S3-25-159 Indent Dt: 28-01-2026

Unit-Name : VISAKHAPATNAM

Department : E & M

Center-Name: E&M - RMRD

Bid Date 16-02-2026

File No

Please supply the Equipment/Meterial Specified below.All terms and conditions incorporated here in on the reverse / attached to this purpose order including general terms and conditions of purchase.

S.No	Code	Description	Toler%	Units	Indent No:	Quantity
1	CPMEPM1188	Silo - 60KL Remarks:Supply ,erection,installation,testing and commissioning of 60 KL Silo with all required accessories & side agitator		Nos.	S3-25-159 Indent:28-01-2026	2.00

Total (Rupees) 2.00

Delivery Schedule : immediately

Place of Delivery : Visakha dairy -Visakhap

Special Note : send quotation as per enquiry

Payment Terms After receipt of the material in good condition

Narration :

Delivery Terms :

Note : Please send your offer with GST Details

For VISAKHA DAIRY

02.02.26

Head of the Department (Purchase)

Sl.no	Item Description
1	**60,000 liters capacity vertical milk storage silo with side entry agitator with alcove and accessories.** Note: The silos should be suitable for our existing Automation and site conditions. Unloading, placement of silos at existing beds and commissioning & connection of existing pipelines shall be quotationers / suppliers scope. The milk silo would be used to store chilled raw / pasteurized milk at 2-4 deg C temperature and shall be installed outside. The stored milk temperature shall not increase more than 2 deg C in 24 storage hours. **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:** 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.

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

Inner Cylindrical Shell : 3.0 mm, AISI 304.
Inner conical top : 3.0 mm, AISI 304.
Inner slopping bottom : 5.0 mm, AISI 304
Outer Cylindrical Shell : 2.0 mm, AISI 304
Outer conical top : 3.0 mm, AISI 304.
Internal/Outer Diameter : It depends on field site , vendor must visit to check the available space for installation Outer Dia meter - 3200 mm

Insulation:

The entire inner shell, conical top 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 radial 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 65-70 Kg/m3.
The insulation shall be applied in staggered joints. All joints shall be sealed with bitumen.
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.

Accessories

Alcove:

The alcove arrangement shall be of size 1800 mm X 1500 mm, 2.5mm thick AISI304 and projecting 1500 mm from the silo / As per site conditions.
The alcove accommodates thermometer pocket, level transmitter, inlet cum outlet, low level switch, sampling cock and man-way. If any modification need for alcove done on installation time.

Inlet cum Outlet: our Inlet milk line is 63mm

Cup type inlet cum outlet with manual operated butterfly type valve (size 76

/63mmmm) stainless steel (AISI 304) flanged valve(Alfa Laval) ending in complete stainless steel union. – 1 no

Air Vent:
Stainless steel (AISI 304) 450 mm dia. IDMC Standard design air vent to prevent formation of partial vacuum during CIP and pressure during filling. – 1 No.

Man-way:
Stainless steel (AISI 304) side elliptical man-way of 405 mm x 550 mm diameter 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. The man-way door gasket shall be neoprene or nitrile rubber of food grade quality. - 1No.

Light Glass:
Stainless steel (AISI 304) light glass assembly shall be provided with toughened glass and stainless steel lamp shade for mounting 24V, 100-watt bulb(Battery Operated)

Sight Glass:
Stainless steel (AISI 304) sight glass assembly 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. – 1 No.

Side Agitator:
Side mounted mechanical agitator with hydrofoil type impeller having IE3 motor of SEW/PBL/Reputed Make, single dry mechanical seal & Bearing Housing. The agitation system is to ensure uniform mixing & agitation of the milk. The agitator shaft shall be made of SS rod.

Spray Ball:
Removable, rotary stainless steel (AISI 304) cleaning device located at the apex of the conical top to provide for flooding of liquid over the complete interior surface during CIP. It shall have SS union at the outer end connection. – 1 No

Level Transmitter:
Provision for mounting the hydrostatic type Level transmitter make shall be provided. **Make:E&H**

Sampling Cock:
Sampling cock shall be provided on the Inlet, cum Outlet and will be stainless steel constructions of sanitary design. - 1 No.

Level probe, socket and Level Switches : E&H level switches
1" BSP socket shall be provided for the mounting of High level, Mid-level and Low level probe– 3 No. with SS dummy

Thermo well:
Suitable long stainless steel (AISI 304) inclined pocket suitable for monitoring system type dial thermometer / temperature sensor shall be suitably located in the alcove. It shall have 21mm BSP male threads.

Sensors:
RTD,Duplex Make: Radix

Drain Hole:
The outer shell shall be provided with one or more drain holes at the lowest point. Any aperture in the shell shall be designed so as to prevent ingress moisture.

Ladder:
Must have a back side ladder from bottom to top with SS 304 supports

Lifting Lug:
Stainless steel (AISI 304) lifting lugs shall be provided at top – 4 Nos.

Anchor Points:
Anchor points, pipes and socket shall be provided on top of the tank so that safety railing and platform shall be welded to them after installation. – 1 Set.

Railing:
Railing made out of 38/25mm SS pipe shall be provided on top cone of the silo, in order to give protection to workmen working at the top of the silo. The railing shall be of minimum 1.0meter height. - 1 Set.

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.
Sand blasted Level Marking:
It shall be calibrated at 1000Ltrs. Interval provided on the inner shall at opposite side of sight glass.

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It shall be calibrated at 1000Ltrs. Interval provided on the inner shall at opposite side of sight glass

TESTS
The following tests shall be conducted

- 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.