

VAISHAL PATLIPUTRA DUGDH UTPADAK SAHKARI SANGH LTD

PATNA DAIRY PROJECT
PHULWARISHARIF, PATNA 801 505

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PDP:PUR:FBD 2198

dt. 26.06.2024

Dear sir,


We are interested in purchasing of the following items. In case you can supply the same, you may send your quotation in sealed cover addressed to the Managing Director address given above superscribing on the top of the envelope quotation for items **Vertical Paneer Vat Machine – 01 KL Cpty. (Under JICA Project)** so as to reach us on or before **26.07.2024**

All rates must be F.O.R FBD on door delivery basis.

S.No.	Item	Specification	Qty reqd.
2.	Vartical Paneer Vat Machine – 01 KL Capacity (Under JICA Project)	Technical Specification attached as per Annexure - 01	01 nos

Thanking you,

Yours faithfully,


Manager (MM)

Annexure-01

Vertical paneer vat machine of 01 KL capacity

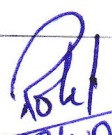
Quantity-01 SET

Make: IDMC / Maheshwari Technology / Equivalent

Technical specification & scope of supply of vertical paneer vat of -01 KL capacity for Patna Dairy Project.

Sl. No.	Description	
1	Scope of supply: *	Supply of 1KL Vertical PANEER Vat with Agitator.
2	Functional requirements:	Tank shall be used for coagulation of milk.
3	Design requirement:	<ul style="list-style-type: none"> ● Capacity: 1,000 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 joints the conical top.
4.	Constructional features:	Vertical, Triple walled, having Pillow Plate jacketed , top mounted agitator, insulated and welded construction of sanitary design.
4.a	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.
4.b	Finish:	Inner and outer surface of tank shall be 2B Mill Finish. All welding Joints shall be ground smooth to polish to 150 grits.
4.c	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	Material of construction & thickness:	<ul style="list-style-type: none"> ● Inner cylindrical Shell: 2.0 mm, AISI 304 ● Inner flat Bottom: 3.0 mm, AISI 304 ● Top Openable cover: 2.0 mm, AISI 304 ● Pillow Plate jacket outer: 0.8 mm, AISI 304 ● Outer cylindrical Shell: 2.0 mm, AISI 304. ● Outer flat bottom: 2.0 mm, AISI 304
5.a	Pillow plate jacket body:	The pillow plate jacket on inner shell and bottom cone shall be fabricated from 2 mm thick and pillow plate outer shell shall be 0.8mm thick from stainless steel sheet conforming to AISI 304.
5.b	Insulation:	<ul style="list-style-type: none"> ● Layer 1 - 50 mm thick resin bonded fiberglass having density of 24 kg/m³. ● Layer 2 - 50 mm thick resin bonded fiberglass having density of 24 kg/m³. ● Layer 3 - Finally Aluminum foil 0.07 mm thick shall be applied over shell side. <p># Insulation: Outside of inner shell and inside outer shell, shall be applied two coats of black bitumen's paints.</p>
5.c	Inner shell stiffeners:	All stiffeners used between inner shell and outer shell shall be of MS.
6	Accessories: *	

	Inlet & outlet:	38.1 mm Inlet & 101.6 mm Outlet connection shall be provided.
6.b	Agitator :	The complete top mounted agitator assembly shall be fabricated from stainless steel of (AISI 304) with Geared Motor to able uniformly mixing and agitation. The agitator shaft shall be made of SS rod.
6.c	Spray ball:	Removable stainless steel (AISI 304) stationery 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.-2 Nos.
6.d	Jacket connection:	Jacket inlet & outlet connection made from SS 304 pipe of 38.1mm.
6.e	Sampling cock:	Stainless steel (AISI 304) sampling cock shall be provided at outlet pipe as per IDMC standard design.
6.f	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.
6.g	Thermo well:	Stainless steel (AISI 304) inclined pocket suitable for mounting stem type digital thermometer. It shall have 25 mm pipe with 3/8" BSP Boss.
6.h	Legs:	Cylindrical pipe legs with Ball feet shall be provided. Legs shall be fabricated from stainless steel (AISI 304) of suitable size Schedule 10 SS pipe. The stainless steel ball feet shall have provision of height adjustment of 50mm. - 4 No.
6.i	Lifting Lugs:	Stainless steel (AISI 304) suitable lifting lugs shall be provided.
6.j	Painting:	All the mild steel stiffeners used in the construction of the tank shall be painted with two coats of epoxy primer after thorough de-rusting.
7	LIST OF ACCESSORIES & INSTRUMENTS WITH TANK:	
Sl. No.	Description	Quantity
i.	Sampling valve - MOC: SS 304, Size: 32mm socket end conn.	01
ii.	Spray ball, MOC : SS 304, Coverage - 360 deg.	01
iii.	Top mounted agitator	01
8	TESTS:	<p>The following test shall be conducted by at Bidders works:</p> <ul style="list-style-type: none"> ● Dye penetration test for welding joints. ● Water fill-up test for water tightness for the inner. ● Final inspection prior to dispatch including agitator trial.


 24.06.24
 Manager (Engg.)