



# Dairy Equipment



*The right formula for next generations*



CE

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## AUTOMATIC MILK COLLECTION AND TESTING SYSTEMS

### Lactoscan VTC 50

It provide best in class Milk Analysis by measuring up to 6 Parameters. Currently it is being used an essential product for Milk collection.

#### Features

- Easy to use with Semi-Automatic Cleaning
- Simple Maintenance , Calibration & Installation
- Portable and compact design
- Measuring capacity 90-100 sample per hour



#### MEASURING RANGES:

TECHNICAL SPECIFICATIONS	
Model	VTC-50
Speed	90-100 Sample per hour
Sample Volume	15ml
Sample Temperature	5° C-35°
Power Supply	220v+20 Volts
Power Consumption	50 Watt (Max.)
Weight	3.0 kg.
Dimensions	240x220x100mm(WXHXD)
PC Interface	RS 232 Port
Serial Port	Yes

Parameter	Measuring range	Accuracy
Fat	0,01- 25%	±0,1%
SNF	3% - 15%	±0,15%
Density	1015 - 1040 kg/m3	±0,3kg/m3
Protein	2% - 7%	±0.15%
Lactose	0,01% - 6%	±0.2%
Added water	0% - 70%	±3
Temperature	1° C - 40 °C	±1%
Freezing point	-0.4° C — -0,7° C	±0.001%
Salts	0.4% - 1.5%	±0.05%

### Solar Milk Analyzer

- 2x3 Solar Panel which can charge 68 AH Battery in 10 Hours.
- Fully Charged battery run Milk Analyzer for up to 10 Hours.
- Saves power by utilizing Solar Energy to generate Electricity to run Analyzer

Other Features same as LACTOSCAN VTC 50



Note: Specifications are subject to change.

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## Features



## Lactoscan Vtc 65

- ▶ Easy to use with Fully Automatic Cleaning
- ▶ 80 -120 Samples per Hour
- ▶ Inbuilt battery Backup
- ▶ German design peristaltic pump
- ▶ Menu driven Correction & Calibration
- ▶ Car Battery adopter
- ▶ Bright Blue LCD Display

## Farm Eco

Smallest ultrasonic milk analyzer with manual cleaning;  
User-friendly: simple in operation, maintenance, calibration and installation;  
60 samples/hour, 60 sec. measurement;  
Portable and compact design;  
Very small quantity of milk required;  
Low power consumption;  
No use of hazardous chemicals;  
Measuring accuracy adjustment can be done by the user  
RS232 Interface;  
ESC POS Printer Support;  
Two samples self-calibration;  
Easily readable results



## Accessories For Milk Analyzer

**LACTOWEELY CLEANING POWDER**

**LACTODAIRY CLEANING POWDER**

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# AUTOMATIC MILK COLLECTION AND TESTING SYSTEMS



## Electronic Milk Fat Tester

We offer our clients from years of experience an exceptional assortment of Electronic Milk Fat Tester Manual. This product is very much appreciated for its precise designs and longer functional life. Moreover, we are proficient to offer these products to clients' at most fair price in the marketplace.

Features

Easy to use  
Auto Zero  
Microprocessor controlled Electronics  
Inbuilt Automatic Battery Charger



### Technical Specification

Sample Volume	0.5 ml/Test
Diluent Volume	6.5 ml/Test
Power Supply	AC: 220-240V DC: 12V Car Battery 120 amp/hr
Ambient Temperature	50C - 450C

### Measuring Range

Range	0-13%
Speed	120-150 Samples/Hour(Approx.)
	1-5% Fat: 0.06%
Accuracy	5-8% Fat: 0.10%
	8-13% Fat: 0.20%
	1-5% Fat:0.03%
Repeatability	5-8% Fat: 0.04%
	8-13% Fat: 0.08%
Calibration	Single Channel



## Automatic Electronic Milk Fat Tester

Fully automatic milk analysis, with minimum manual effort requires.

### Chemicals For EMT

3.3.1 EDTA

3.3.2 ANTI FORM

3.3.3 EMULSIFIER



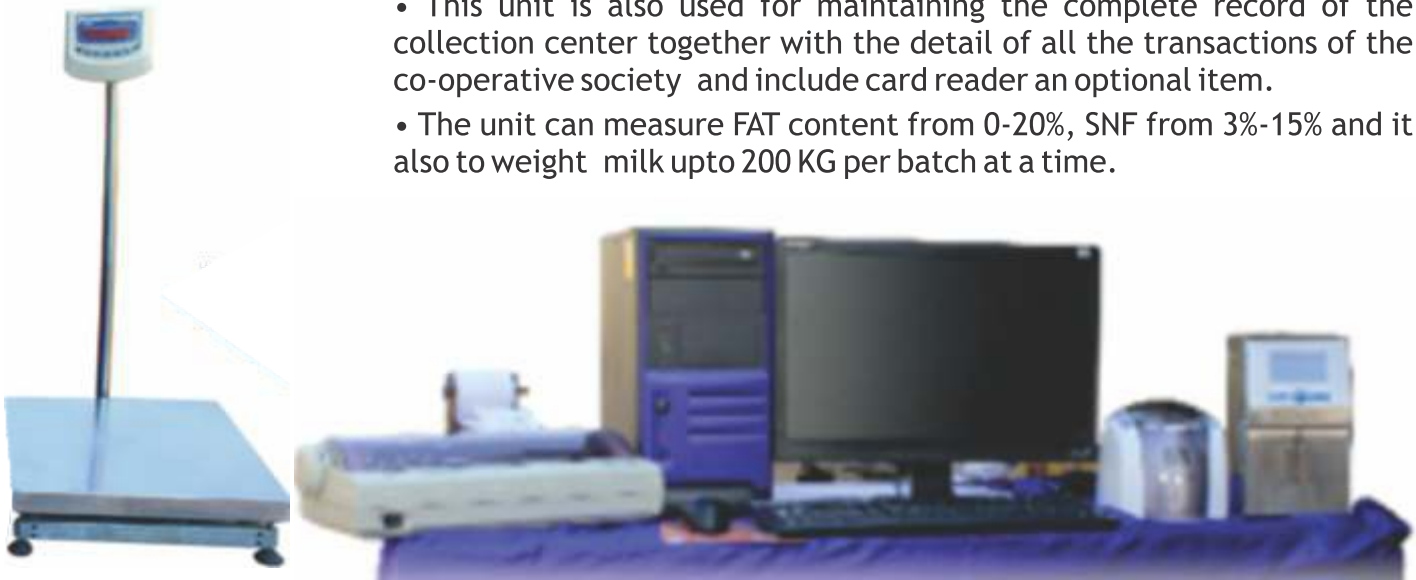
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## AUTOMATIC MILK COLLECTION AND TESTING SYSTEMS

- The unit is suitable for instant weighing of milk, measuring FAT, SNF content, calculating the amount payable to the member based on FAT & SNF, and weight, printing the amount calculated thereof with the identification detail of member.
- This unit is also used for maintaining the complete record of the collection center together with the detail of all the transactions of the co-operative society and include card reader an optional item.
- The unit can measure FAT content from 0-20%, SNF from 3%-15% and it also to weigh milk upto 200 KG per batch at a time.



### Peripherals:

- MILK ANALYZER: LACTOSCAN or EMT
- Computer: Specifications as described
- ELECTRONIC WEIGHTING SCALE:- Capacity: 200 Kg
  - DIGITAL DISPLAY
  - UPS/Auto Charger:- Capacity 1.5 KVA
  - Back up:- Up to 10 Hrs of AMCU operation
- PRINTER:- 80 Column 300 CPS & 24- PIN Dot Matrix Printer
  - USV (Ultrasonic Vibrator)
  - DAIRY SOFTWARE

### Data Processor Automatic Milk Collection Unit

#### DPAMCU

DPAMCU is a Milk Collection Unit without Computer. The Data Processor does the required processing to make report of a typical milk collection center. One can easily interface the Milk Analyzer. Weighing scale with it. DPAMCU simplifies the milk purchase and payment process with accuracy and transparency. It is useful and economical alternative to computer can be easily operated by an unskilled villager.

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## Features :

- Easy to use
- Advanced microprocessor based embedded design
- Full Parameter display including FAT, SNF and Added Water
- Fully functional computer keyboard for easy entry
- Integrated Auto and Manual rate chart as per MCC's requirements
- 500 Members data base
- Expandable memory using external memory card option
- Unlimited transaction memory
- Connection with PC using RS 232 port
- In built printer
- In built Auto Tare facility



## Stirrer:

**STIRRER:** is use to remove the gases (air bubble) which are present in the milk at the time of milking which can lead to variation in measurement of SNF. It remove the gases by ultrasonic Vibration

## Features :

- Compact Design and easy to use.
- High Frequency Vibration for Instant Air Removal
- Superior High Quality Transducers



## PERIPHERALS:

- Data Processor with in built printer
- Milk Analyzer: LACTOSCAN or EMT
- ELECTRONIC WEIGHTING SCALE:- Capacity: 200 Kg
- Remote Display (Optional)
- STIRRER:
- UPS with Extended Battery

## Solar DPAMCU

- 2x3 Solar Panel which can charge 68 AH Battery in 10 Hours.
- Fully Charged battery run Milk Analyzer for up to 10 Hours.
- Saves power by utilizing Solar Energy to generate Electricity to run DPAMCU.

Other Features same as DPAMCU



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## 6.0 Gerber Centrifuge (MTM)

### HAND OPERATED MILK TESTING MACHINE (CAST-IRON)

Hand operated Milk Testing Machine with solid construction, having ball bearing for smooth running. Pan covers made from CRCA sheets and base is cast iron casted. Dynamically balanced available in open as well as enclosed shaft.

### HAND OPERATED MILK TESTING MACHINE (Aluminum)

Original hand operated Milk Testing Machine with solid construction, having ball bearing for smooth running. Pan covers are made form CRCA sheets and base is Aluminium casted. Available in open shaft as well as enclosed shaft.

### Open Shaft Type

- 6.1.1.1 8 Test
- 6.1.1.2 12Test
- 6.1.1.3 24 Test



### Electric Centrifuge (Milk Testing):

Electrically operated Milk testing machine with inbuilt motor of ¼ HP. Fitted with Heavy cast Iron Base and Pan Cover made from CRCA Sheet. Dynamically balanced for smooth and noiseless movement. This machine is available in

- 6.3.1 8 Test
- 6.3.2 12 Test
- 6.3.3 12



### Enlosed Shaft Type

- 6.1.2.1 8 Test
- 6.1.2.2 12Test
- 6.1.3.3 24 Test



### CENTRO-LAB Centrifuge (Milk Testing)

Centrifuge for Butyrometer with Acid resistant coating, with Plexi Glass Cover, Special motor, and braking system, angled head with inbuilt timer of 0-5 minutes. Easy to use and maintain. This machine is available in

- 6.4.1 8 Test
- 6.4.2 12 Test
- 6.4.3 12 Multipurpose



Centrifuge for 8 Test Operation or 4x50 ml solubility index tubes

## 6.2 Accessories

- 6.2.1 Tempered Vertical Spindle for MTM
- 6.2.2 CI Gear for MTM
- 6.2.3 Handle with Knob
- 6.2.4 Plastic Holding Tube for Butyrometer
- 6.2.5 Aluminum Holding Tube for Butyrometer



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### CENTRO-LAB SUPER

Original Milk Testing Machine for 24 test operation. This is an electrically driven with extra housing cover and brake for easy and safe operation.

It has :-

- A Three Piece Construction
- Pan Covers Made From
- CRCA Sheets
- Inbuilt Timer for Accurate
- Operation
- Also available in Stainless
- Steel construction



### 7.0 Butyrometer Original

7.1 Milk Butyrometer made from Borosilicate/Corning glass, ISI Specified, 10.75 ml, 0-10% FAT scale, Acid Proof Marking, available in a box pack of 10.

7.2 Cream Butyrometer made from Borosilicate/Corning glass, ISI Specified, volumetric 5 ml cream, 0-70% scale, available with & without cup and rubber stopper.



### 8.0 Lock Stoppers:

8.1 Original ISI Specified Gerber type lock stoppers available with Brass Cap, packed in a box of one dozen.

8.2 Original ISI Specified Gerber type lock stoppers available with Aluminum Cap, packed in a box of one dozen.

8.3 Same as above but with metal cap packed in a box of one dozen.

8.4 Single conical rubber stopper Made of Acid Proof & Soft Quality

### 9.0 Butyrometer Water Bath (Electrical)

Stainless Steel Basin and Variable Thermostat Temperature Control from 250 to 100 C, Complete with Rack and Drain Cock on/off switch 220V/50 Cycle with Cover available in 12 and 24 Test.











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## 10.0 Butyrometer Stands:

	<b>10.1 Wooden Stand cum Shaking:</b>
	10.1.1 12 Test Stand
	10.1.2 24 Test Stand
	<b>10.2 Plastic Stand cum Shaking:</b>
	10.2.1 12 Test Stand
	10.2.2 24 Test Stand
	<b>10.3 Plastic Folding Type Stand cum Shaking</b>
	10.3.1 12 Test Stand
	10.3.2 24 Test Stand
	<b>10.4 Aluminum Stand cum Shaking</b>
	10.4.1 12 Test Stand
	10.4.2 24 Test Stand
	<b>10.5 Stainless Steel Stand Cum Shaking</b>
	10.5.1 12 Test Stand
	10.5.2 24 Test Stand
	<b>11.0 Lactometer</b>
	<b>11.1 Zeal Type Original</b>
	11.1.1 0-40 Graduation at 840F
	11.1.2 10-40 Graduation at 600F
	11.1.3 1 Metal Scale Mercury polished 0-40 Graduation at 840 F
	11.1.4 Metal Scale Mercury polished 0-40 Graduation at 600F

	<b>11.2 Quevene Type Original</b>
	11.2.1 0-40 Graduation at 600F, 1/2 Calibrated.
	11.2.11 5-40 Graduation at 600F, 1/2 Calibrated.
	11.2.12 0-40 Graduation at 600F, 1/2 Calibrated.
	11.2.12 0-35 Graduation at 600F, 1/2 Calibrated ISI Marked
	<b>12.0 Lactometer Jars.</b>
	<b>12.1 Plastic Jar :</b>
	12.1.1 Big Size with round base and Volume of 125 ml.
	12.1.2 Small Size with round base and Volume of 75 ml.
	<b>12.3 Stainless Steel Jar</b>
	12.3.1 Big Size with round base with spout and bottom for Quevene type.
	12.3.2 Small Size with round base with spout and bottom for Zeal Type.
	<b>13.0 Original Pipettes:</b>
	13.1 Milk Pipettes: ISI Specified 10.75 ml superior quality clear Borosilicate glass available in a box of 25 pieces.
	13.2 Cream Pipette: ISI specified 5 ml.
	13.3 Amyl Alcohol Pipette: 1 ml with one safety bulb
	13.4 Acid Pipette: 10 ml with two safety bulbs.
	13.5 Accessories: Pipette Pump



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## 14.0 Milk Sample Bottle Stands:



14.1 Plastic Two Piece Construction, available in two attractive Colors made from Polypropylene with capacity of holding 24 bottles and hole's diameter of 42.5mm.



14.2 Stainless Steel :SS Construction, available with capacity of holding 24 bottles and hole's diameter of 42.5mm.

## 15.0 Test Tube Stands



15.1 Plastic Test Tube Stand for 12 test tubes.



15.2 Stainless Steel Test Tube Stand for 24 test tubes.

## 16.0 Cleaning Brushes



16.1 Nylon Cleaning Brushes :



16.1.1 Thick Wire For Cleaning Butyrometer



16.1.2 Full Line For Cleaning Butyrometer



16.1.3 Brush for Cleaning Butyrometer's Scales.



16.1.4 Brush for Cleaning Butyrometer's Bodies.

16.1.5 Brush for Cleaning Milk pipettes.

16.1.6 Brush for Cleaning Sample Bottles.

16.1.7 Brush for Cleaning Test Tubes.

16.1.8 Brush for Cleaning Milk Cans

16.1.9 Small Brush for Cleaning Pipe Lines

16.1.10 Large Brush for Cleaning Pipe Lines



## 16.2 Jute Brushes

16.2.1 Brush for Cleaning Milk Cans.



## 17.0 Tilt Measures Original

17.1 Corning Glass :

17.1.1 1 ml with Cork for Alcohol.

17.1.2 10 ml with Cork for Acid.

17.2 Superior Quality Plastic:

17.2.1 1 ml with Nylon Cork for Alcohol.

17.2.2 10 ml with Nylon Cork for Acid.



## 18.0 Dairy Thermometer:

18.1 Alcohol Filled Thermometer with scale -10-1100C

18.2 Alcohol Filled Thermometer with scale 0-2200F

18.3 Mercury Filled Thermometer with scale 0-2200F

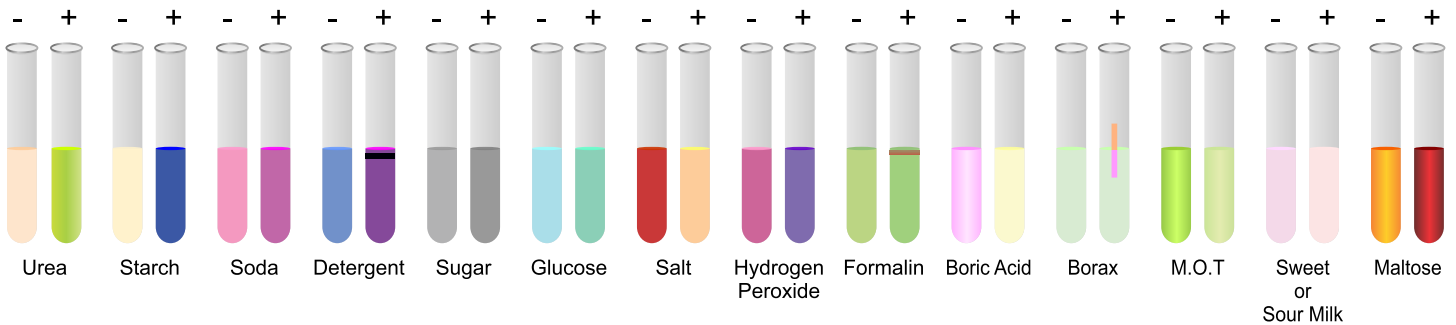
18.4 Mercury Filled Thermometer with scale -10-1100C

18.5 Floating Thermometer: 0 - 2 2 0 0 F / 0 - 1 1 0 0 C multiple scale



Note: Specifications are subject to change.

## 10.0 Butyrometer Stands:



### 19.0 Adulteration Testing Kits:

- 19.1 Small Adulteration Testing kit: This Kit is used for detection of Starch, Urea, Neutralizer and Detergent Checks. This kit can test five samples of each type.
- 19.2 Large Adulteration Testing Kit: This is a standalone instant check adulteration testing kit having latest test, developed for detection of 14 adulterants as mentioned below
  - 19.2.1 Urea Detection
  - 19.2.2 Starch Detection
  - 19.2.3 Soda Detection
  - 19.2.4 Detergent Detection
  - 19.2.5 Sugar Detection
  - 19.2.6 Glucose Detection
  - 19.2.7 Salt Detection
  - 19.2.8 Hydrogen Peroxide Detection
  - 19.2.9 Formalin Detection
  - 19.2.10 Boric Acid Detection
  - 19.2.11 Borax Detection
  - 19.2.12 M.O.T Detection
  - 19.2.13 Sweet or Sour Milk Detection
  - 19.2.14 Maltose Detection

- 19.3 Synthetic Milk Testing Kit: Used for detection of Soda, Starch, Salt and Urea. This kit has standard 50 ml solution bottles of each test.
- 19.4 Ghee Adulteration Testing Kit: This kit consists of Vegetable oil Test for Ghee and Starch Test for Ghee.
- 19.5 Other Testing Kits :
  - 19.5.1 Acidity Testing Kit
  - 19.5.2 R.M Value Apparatus
  - 19.5.3 Milk Pasteurization Testing Kit
  - 19.5.4 M.B.R Testing Kit
  - 19.5.5 Protein Testing Kit
  - 19.5.6 Instant Milk Stability Testing Kit
  - 19.5.7 pH Testing Kit
  - 19.5.8 Water Chloride Testing Kit
  - 19.5.9 Water Hardness/Softness Testing Kit
  - 19.5.10 Antibiotic Testing Kit
  - 19.5.11 California Mastitis Testing Kit

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## 20.0 Chemicals for Gerber Test:

### 20.1 Amyl Alcohol:

20.1.1 'Standard' Grade: Available in Plastic Barrel of volume 200 Liters

20.1.1 'Deluxe' Grade: Available in Plastic Barrel of volume 200 Liters.

20.1.3 'Super' Grade: Available in :-

20.1.3.1 1 Liter



20.1.3.2 5 Liters

20.1.3.3 200 Liters

### 20.2 Safah Reagent : Liquid for cleaning/washing SS Equipment, available in 1 Liter Plastic Bottle

## 21.0 Sampling Appliances:

21.1.1 Stainless Steel Dipper in 50 ml

21.1.2 Stainless Steel Dipper in 100 ml

21.1.3 AISI 304 Stainless Steel Dipper in 50 ml

21.1.4 AISI 304 Stainless Steel Dipper in 100 ml

21.1.5 Aluminum Dipper in 35ml

21.1.6 Aluminum Dipper in 50 ml

21.1.7 Aluminum Dipper in 100ml

21.1.8 Aluminum Dipper in 125 ml

21.1.9 Tanker Dipper Stainless steel of 250 ml



### 21.2 Sample Bottle :

21.2.1 Plastic Sample Bottle in 50ml  
Plastic Sample Bottle in 100ml (Natural)



21.2.2 Plastic Sample Bottle in 100ml (Milky Colour)

21.2.3 Plastic Sample Bottle with



21.2.4 SCREW TYPE CAP 100ml

21.2.5 Plastic Sample Bottle with SCREW TYPE CAP 200ml

21.2.6 Plastic Sample Bottle with SCREW TYPE CAP 300ml

21.2.7 Stainless Steel Bottle in 50ml

21.2.8 Stainless Steel Bottle in 100ml Capacity.

### 21.3 SS Measure:

21.3.1 Set of 1000ml, 500ml, 200ml & 100ml.

21.3.2 SS Measure 100ml

21.3.3 SS Measure 200ml

21.3.4 SS Measure 500ml

21.3.5 SS Measure 1000ml

21.3.6 SS Measure 2000ml



### 21.4 Wash Bottle

21.4.1 Polyethylene in 250ml

21.4.2 Polyethylene in 500ml

21.4.3 Polyethylene with inbuilt Dropper in 250ml

21.4.4 Polyethylene with inbuilt Dropper in 500ml



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## 22.0 Aluminum Alloy Milk Can

### 22.1 Aluminum Alloy Milk Can with

22.2 Aluminum Alloy Milk Can with Lid and capacity 50 Liters



25.3 500gms Milk Can Lid

25.4 Same as above but with superior finish

### 26.0 Hammer



26.1 Rubber Can Hammer

### 23.0 Stainless Steel Milk Can:

Stainless Steel Milk Can with Mushroom type Lid Quality 304, Hygienic strong and sturdy corrosion resistant and crack proof body and easy to clean

23.1 Stainless Steel Milk Can of Capacity 20 Liters

23.2 Stainless Steel Milk Can of Capacity 40 Liters



### 27.0 Can Scrubber



27.1 SS 304 Immersion bath with Nylon Brushes of capacity 425 Liter. Smooth welding joints and well polished surfaces to 150 Grits. Electric Motor of 1 HP 1440 RPM 3 Phase 1P55 Gear Box and driving chain-1.

### 28.0 Can Washing Trough



28.1 Washing troughs for immersion baths for manual cleaning of milk cans.

### 24.0 Plastic Milk Can

24.1 Seamless double walled Plastic milk Cans made from Polyurethane with built in handles and capacity 40 liters.

### 29.0 Can Trolley :



29.1 NDDDB Specified Trolley for 20/40 Liter milk can, hand driven madev from mild steel and wheels made from non virgin nylon Polymer.

### 25.0 Plastic Milk Can Lid:



25.1 400gms Milk Can Lid

25.2 Same as above but with superior

### 30.0 Crate Trolley :



30.1 NDDDB Specified Crate trolley to hold a stack of 11 crates.

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# Dairy Consumables & Handling Accessories

## 31.0 Plastic Crates for Pouches:

- 31.1 Plastic Crate 10 Liters without partition
- 31.2 Plastic Crate 12 Liters without partition
- 31.3 Plastic Crate 12 Liters with partition.



## 32.0 Washing Trough:

- 32.1 SS 304 trough for washing of small items. Capacity of 300 liters with legs, drain and perforated tray.



## 33.0 Strainer/ Funnel:

- 33.1 Anodized Aluminum milk Strainer available in the following variants:



- 33.1.1 With Brass Mesh.
- 33.1.2 With Stainless Steel Mesh



- 33.2 NDDDB Specified AISI 304 Stainless Steel Milk Strainer, Top Quality with top diameter 320mm, bottom Diameter 127mm, Height 190mm approx. & weight 1kg.

- 33.3 Spares :

- 33.3.1 Brass Mesh
- 33.3.2 Stainless Steel Mesh
- 33.3.3 AISI 304 Stainless Steel Mesh.
- 33.3.4 Filter Cloth Nylon.
- 33.3.5 Plastic Mesh (Channi).



- 34.0 Milk Stirrer/Plunger:
- 34.1 Aluminum Plunger: Size 30"
- 34.2 Aluminum Plunger: Size 36"
- 34.3 Stainless Steel Plunger: Size 30"
- 34.4 Stainless Steel Plunger: Size 36"
- 34.5 AISI 304 Stainless Steel Plungers: Size 30"

- 34.6 AISI 304 Stainless Steel Plungers: Size 36"
- 34.7 AISI 304 Stainless Steel Tanker Plungers: Size 6 Feet

- 35.0 Milk Collection Trays:

- 35.1 G.I. Sheet of 600mm X 450mm X 65mm.
- 35.2 Aluminum Tray of 600mm X 450mm X 65mm.
- 35.3 Stainless Steel AISI 304, One Piece Construction 600mm X 450mm X 65mm. (Approx. Wt 2 kg.)
- 35.4 Heavy Quality AISI 304, One Piece Construction 600mm X 450mm X 65mm. Outlet of Diameter 38mm
- 35.5 Superior Quality AISI 304, One Piece Construction 600mm X 450mm X 65mm. Outlet of Diameter 38mm with additional Supporting Legs and Lifting Handles.
- 35.6 Stainless Steel Milk Collection tray, Jointed Construction.



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## 36.0 Sediment Tester

Bench Mounting Hinch with Aluminum Bottle Cap 400 ml, Filtering Surface Diameter 18 mm, Gerber Type, Discharge Tube with filters

## 37.0 Sedimentation Disc

28 mm (100 Pcs. Set)

## 38.0 Acidity Gun

Stainless Steel Acidity Gun with Double Pipe

## 39.0 Autoclave (Vertical):

With S.S. Inner Chamber, M.S. or S.S. Lined Head, having a pressure guage, radial locking system, safety device, S.S. basket, Water Level Indicator, Maximum pressure up to - 20 PSI. Compete with plug in cord. 220V.A.C.

Available in the Below Sizes with and without S.S. Outer:

39.1 20" X 12"

39.2 22" X 14"

39.3 24" X 18"

39.4 30" X 22"



## 40.0 Autoclave (Horizontal):

Horizontal Shaped S.S. Inner Chamber, M.S. or S.S. Lined Head, with pressure guage, radial locking system, safety device and S.S. basket, Water Level Indicator, Maximum pressure up to - 20 PSI. Compete with plug in cord. 220V A.C. mounted on Tubular stand with S.S. Boiler.

40.1 Available in below mentioned sizes:

40.1.1 120" X 12" (36 Liters)

40.1.2 222" X 14" (50 Liters)

40.1.3 324" X 18" (98 Liter)

40.1.4 430" X 22" (152 Let)

40.1.5 544" X 16" (200 Liter)

40.2 For the above Autoclave below mentioned additional facility at an extra cost available:

40.2.1 Pressure control switch (Automatic)

40.2.2 Automatic Water Level Cut off device

40.2.3 Timer-0-60 minute

40.2.4 Dial Thermometer

40.2.5 Digital Temperature display

40.2.6 Automatic Temperature Recording System



## 41.0 Water Bath Rectangular (Single Walled):

Electrically operated S.S. chamber fitted with immersion heaters having Temperature range up to 1000 C and containing 75 mm holes and concentric rings with two nozzles for water level arrangement and lead available in the below mentioned Size variants:

41.1 300 X 250 X 100 mm (6 holes of 3" diameter)

41.2 300 X 300 X 100 mm (9 holes of 3" diameter)

41.3 350 X 400 X 100 mm (12 holes of 3" diameter)



## 42.0 Water Bath Rectangular (Double Walled):

S.S. Inner chamber, M.S. outer made dully painted with enamel top have 75 mm holes with concentric rings with temperature up to 950 C.

Accuracy 10 C Thermostatically controlled, fitted with neon lamps, indicator main switch and workable on 220 volts 50 Hz AC. Available in the following size variants:

42.1 300 X 250 X 100 mm (6 holes of 3" diameter)

42.2 300 X 300 X 100 mm (9 holes of 3" diameter)



Note: Specifications are subject to change.

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# Laboratory Equipments



## 43.0 Serological Water Bath (without racks and thermometer):

Double walled thermostatically controlled water bath with interior made of S.S., Outer made of M.S. dully painted with enamel paint, glass wool insulation. Temperature range 50 C above room temperature up to 900 C with an Accuracy 10 C. Dome type cover is provided at the top with perforated shelf inside the chamber 220 Volt 50 Hz A.C available in the following size variants:

- 43.1 300 X 250 X 175 mm
- 43.2 325 X 300 X 175 mm
- 43.3 450 X 300 X 175 mm
- 43.4 600 X 300 X 175 mm



## 44.0 Water Bath High Precision Thermostatic (with stirrer):

Double walled Water Bath with inner Chamber made of S.S. outer chamber made of M.S. dully painted with enamel paint, Glass wool insulation, digital electronic temperature indicator cum Controller, having range from 50 C above room temperature to 2000C with Accuracy of 0.10 C having Continuous Stirring Arrangement and glass window on front side with main Lead extra 220 Volts 50 Hz. A.C. Size of inner chamber will be:

- 44.1 430 X 240 X 265 mm
- 44.2 280 X 360 X 380 mm



## 45.0 Oven (Universal Mermert Type Double Walled):

Outer Chamber made of M.S. dully printed with enamel painting, glass wool insulation, inner wall made of S.S., heating elements placed in ribs of the bottom and sides. Temperature range 50 C above Ambient temp. 2500 C. Air Ventilator adjustable filled on both sides provided with 'L' shape thermometer, thermostatically controlled accuracy of 10C fitted with main switch, Pilot Lamp, temperature controlling knob. Perforated shelf, 220 Volt 50 Hz A.C. available in following sizes in inner chamber.

- 45.1 Available in below mentioned sizes:
- 45.1.1 300 X 300 X 300 mm
- 45.1.2 350 X 350 X 350 mm
- 45.1.3 450 X 450 X 450 mm
- 45.1.4 450 X 600 X 600 mm
- 45.1.5 600 X 600 X 600 mm
- 45.1.6 600 X 900 X 600 mm



## 46.0 Oven :

High temperature deluxe model specifications same as above but having temperature range from 100 C above ambient temp to 3500 C with an accuracy of 20 C, 220/230 Volts 50 Hz. A.C., available in following sizes in inner chamber.

- 46.1 300 X 300 X 300 mm
- 46.2 350 X 350 X 350 mm
- 46.3 450 X 450 X 450 mm
- 46.4 600 X 600 X 600 mm
- 46.5 Industrial Drying Oven



with Double walled construction on heavy iron angle painted inner chamber made of mild steel with temperature resistant paint and outer finished with hammer tone paint, insulation is done by glass wool. Temperature range 500 C to 2500 C controlled by thermostat with an accuracy of 50 C, Air circulation is provided by heavy duty blower with ON/OFF switch, indicator, ventilators are provided on the top of Oven. Supplied with complete accessories but without trays.

## 47.0 Incubator (Automatic):

It is specially designed for incubation of Biochemical Oxygen demand on water and sewage. It can be used as an environmental study and growth chamber by incorporating lighting and humidification system. Triple walled inside made from anodized Aluminum/Stainless Steel, outside from mild steel fitted with air circulating fans. Full view inner glass door with magnetic gasket allows inspection of samples without disturbing the temperature of cabinet. Temp. Range 50 C to 600 C with an accuracy of 0.50 C by Digital Temperature Indicator cum Controller, Refrigeration is done by cooling coils and heating by air heaters. Control panel has separate heating and cooling indicator lamps, temperature set allows the user to select any desired temperature and voltmeter is provided at the panel to check the incoming voltage.



### Capacity Usable space

- 47.1 4 cu. ft. 610 X 450 X 410 mm
- 47.2 6 cu. ft. 845 X 500 X 400 mm
- 47.3 10 cu. ft. 870 X 570 X 560 mm
- 47.4 12 cu. ft. 900 X 650 X 570 mm

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## 48.0 Laboratory Round Heating Plate (with Cast Iron Top):

Rectangular one piece heating plate made from PCRC sheet and painted with attractive enamel paint. The top of the plate is 7½" Diameter 1500 watts provided with Energy Regulator to control the temperature as per customer's requirements to work on 220 Volts AC.



## 49.0 KJELDHAL Distillation Unit (Without Glass Parts & Clamps):

This is useful for distillation purpose for 300, 500 or 800 ml. flask to work on 220/230 Volts AC. Available in the following variants

49.1 Unit of 3 test Mantle type with 3 energy regulators + 3 Pilot lamps.

49.2 Unit of 6 test Mantle type with 6 energy regulators + 6 Pilot lamps.



## 50.0 KJELDHAL Digestion Unit (Without Glass Parts):

It is very useful for digestion purpose for 300, 500 or 800 ml. flasks. Provided with (1) Fume Duct (2) Steel Stand (3) Pair of hangers to work on 220/230 Volts AC. Available in the following variants

50.1 Unit of 3 test Mantle type with 3 energy regulators + 3 Pilot lamps.

50.2 Unit of 6 test Mantle type with 6 energy regulators + 6 Pilot lamps



## 51.0 Laboratory Stirrers:

51.1 Mini Stirrer: Fitted with 1/50 H.P. Motor 1200 RPM without controller. Complete on adjustable stand.

51.2 Lab. Stirrer: With 1/20 H.P. Motor 4000 RPM with speed regulator.

51.3 Lab. Heavy Duty Stirrer: With 1/4 H.P. Motor with speed regulator.

## 52.0 Magnetic Stirrers (With Hot Plate):

temperature controlling knob. Perforated shelf, 220 Volt 50 Hz A.C. available in following sizes in inner chamber.

52.1 Heating plate regulated by Energy Regulator and the shaking speed regulated by speed regulator. Available variants having Capacity of 1 Liter, 2 Liters, 5 Liters and 10 Liters respectively.



## 53.0 Rectangular Muffle Furnace (1000 C):

Muffle Furnace with a Maximum Temperature of 10000 C and working temperature up to 9000 C. Heating is done by Embedded Heater run around the chamber & controlled by Energy Regulator or Digital Temperature Indicator cum Controller, the outer body is made of thick and mild steel duly painted. The apparatus is complete with pyrometer. Thermo-couple, silver fuse, two Neon lights with wire and plug to work on 220/230 Volts AC, (with Silicone Fiber insulation).

Available Muffle Sizes :

- 53.1 100 X 100 X 225 mm
- 53.2 125 X 125 X 250 mm
- 53.3 150 X 150 X 300 mm
- 53.4 125 X 175 X 475 mm
- 53.5 175 X 175 X 475 mm
- 53.6 200 X 200 X 300 mm



## 54.0 Rectangular Muffle Furnace High Temp. (1200 C):

Muffle Furnace with a Maximum Temperature 12000 C grooved Refractory type, working temp up to 11000 C. Heating is controlled by Sunvic Simmer State (Energy Regulator), the outer body is made of thick mild steel duly painted. The apparatus is complete with pyrometer. Thermo-couple, two Neon lights with wire and plug to work on 220/230 Volts AC, (with Silicone Fiber insulation).

Available Muffle Sizes :

- 54.1 100 X 100 X 225 mm
- 54.2 125 X 125 X 250 mm
- 54.3 150 X 150 X 300 mm
- 54.4 125 X 175 X 475 mm
- 54.5 175 X 175 X 475 mm
- 54.6 200 X 200 X 300 mm



## 55.0 Pipette Washer :

Automatic pipette washer completely made of S.S., Can accommodate pipettes up to 375 mm in length. It is based on the principles of agitation and strong suction developed by water during repeated filling and siphoning.

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# Laboratory Equipments



## 56.0 Humidity Cabinet

An all purpose humidity cabinet with Forced air circulation cabinet. Double walled construction interior walls are made of anodized Aluminum or Stainless Steel outer Mild Steel. Humidity is controlled by imported Humidistat is from above ambient to 95% sensitivity  $\pm 3\%$  RH fitted inside the door. The water is circulated by humidifier or through steam generation system fitted in cabinet. Size of Inner Chamber :

- 56.1 450 X 450 X 700 mm
- 56.2 600 X 600 X 600 mm
- 56.3 600 X 600 X 900 mm



## 57.0 Humidity & Temperature Control Cabinet (Refrigerated):

Construction same as of Humidity Cabinet but with refrigeration system fitted with hermetically designed compressor to attain low range temp. from 50 C to 500 C Temperature controlled by Electronic temperature Controller with an accuracy of  $\pm 10$  C & humidity up to 95% (with an accuracy of  $\pm 3\%$  RH) by Humidistat. Inner chamber made of Aluminum/S.S. separate control panel house is provided for cooling, heating, temperature control knob, indicators suitable to work on 220 Volts AC

Size of Inner Chamber :

- 57.1 450 X 450 X 700 mm
- 57.2 600 X 600 X 600 mm
- 57.3 600 X 600 X 900 mm



## 58.0 Air De-Humidifier

Used for removal of excess moisture from atmosphere. Humidity is brought down to 35% controlled by Imported Humidistat with an accuracy of  $\pm 3\%$  RH. It comes supplied with Heavv dutv Base Stand, Workable on 220 Volts AC Supply. Size of Inner Chamber :

- 58.1 1 T.R.
- 58.2 1.5 T.R.



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## 59.0 ABBE Refractometer:

This instrument of international standards is used for measuring refractive index 1.3 to 1.7 with an accuracy of 0.001 direct on scale and 0.0001 by estimation, sugar percentage range 0 to 95% and accuracy 1% by estimation. In built provision for measuring dispersion and water circulation for constant temperature is also provided. Complete with test piece, contact liquid, thermometer with metallic jacket and instruction manual.



## 60.0 Butyro Refractometer (Oil + Sugar

Refractometer): It is mainly used for industries using Sugar, Oil Fat & similar substances, Oil scale/Butyro Scale 0 to 100, accuracy of  $\pm 0.1\%$  direct reading on scale 0.2% by estimation. Temperature correction device 200 C to 300 C sub-divided into 10 C. Refractive index range 1.42 to 1.49 by conversion. Complete metallic jacket and instruction manual



## 61.0 Water Bath for Butyro Refractometer:

Water Bath for Butyro Refractometer specially made to obtain accurate results from Butyro Refractometer. It is equipped for water circulation on desired temperature.



## 62.0 Hand Refractometer

Available in the following variants:

- 62.1 Hand Refractometer 0-32 Erma Type with imported optics for measuring the sugar.
- 62.2 Hand Refractometer 28-62 Erma Type with imported optics for measuring the concentration of sugar cane.
- 62.3 Hand Refractometer 58-92 Erma Type with imported optics for fruit juices, syrups, jams, cola & Liquid.



## 63.0 Infra Red Moisture Balance:

The infrared moisture balance is used for measuring the moisture contents of materials without changing their chemical structure while losing water under exposure to infrared radiation. It is very light and portable with sensitive torsion balance calibrated in moisture percentage. The heating is controlled by controlling the input voltage with the help of solid state electronic regulator. Easy to operate with an accuracy of 0.2% by direct reading and 0.1% by estimation. Complete with 'L' shape thermometer, 12 disposable pans, forceps and instruction manual workable on 220 volts AC 5/10/25 gm Capacity.



## 64.0 Ultra Violet Lamp (Box Type):

This is portable dark room or ultra-violet, used for Visualization of materials. The sample can be placed on tray by opening the window and is suitable for paper chromatography analysis used mainly for gradation of oil. It has an ultra violet lamp radiation range of 3200 to 4000 A.U. centered around 3600 A.U. operating voltage 220/230 Volts AC.



## 65.0 pH Meter:

65.1 pH Meter (Lab. Model) Digital Display 3½ digit L.E.D. Resolution 0.01 pH to 14 pH, 0 to ±2000 mv, Accuracy 0.01 pH & ±1 mv, temperature compensation 0-1000 C (manual) power supply 230 V 10% Hz supplied with combined electrode, buffer solutions Electrode stand, dust cover.



65.2 pH Meter (Lab. Model) Digital With Automatic Temperature Compensation Facility and ATC probe & pH Electrode.

## 66.0 Spectrophotometer (Grating type) Digital:

Spectrophotometer with a range of 340-960 nm having facility for automatic concentration and percent transmission and having measurement Wavelength resolution 5 nm. Wavelength range of 340-960 nm and Accuracy 1 Nanometer.



## 67.0 Microscopes:

### 67.1 Students Microscope:

Straight tube inclinable through 90°, illumination controlled by iris diaphragm, complete with 2 Achromatic objectives: 45 X, 10 X, 2 Hygienic eye pieces: 15 X, 10 X.



### 67.2

#### Laboratory & Medical Microscope:

With graduated mechanical stage, two ways movement triple revolving nose piece, Rack and pinion arrangement for the motion of condenser unit (N.A 1-20) complete with light arrangement along with the following optics:

Eye piece: 5 X, 10 X, & 15 X, (Any two)  
Objective: 10 X, 45 X, & 100 X (Oil immersion)

### 67.3

#### Senior Research Binocular Microscope:

Research Binocular microscope with ball bearing quadruple revolving nose-piece having positive click-stops coarse motion with universal locking device, condenser unit having centering device, built-in-co axial mechanical stage with sides graduated for slide manipulation with Binocular Head (Assembled from imported prism) and straight tube photomicrography with following optical combination.

Eye piece: 5x, 15x (Paired) and & 10x (Wide field paired) Objective: 10x, 45x, 100x (Oil immersion)

## 68.0 Spirit Lamp:

Available in the following Variants:

- 68.1 Spirit Lamp 60 ml (Aluminum) Jointed.
- 68.2 Spirit Lamp 100 ml (Aluminum) Jointed.
- 68.3 Spirit Lamp 100 ml (Aluminum) Joint less.
- 68.4 Spirit Lamp 125 ml (Aluminum) Joint less.
- 68.5 Spirit Lamp 100 ml (Brass) Jointed.
- 68.6 Spirit Lamp 125 ml (Brass) Jointed.
- 68.7 Spirit Lamp 125 ml (S.S.) Jointed



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# Laboratory Equipments



## 69.0 Laboratory Beakers, Flask &

- 69.1 Glass Beakers of volume 50 ml, 100 ml, 250 ml and 500 ml
- 69.2 Conical Flask of volume 1 liter, 500 ml and 250 ml.
- 69.3 Glass Test tubes of the following variants:
  - 69.3.1 10 mm x 75 mm
  - 69.3.2 12 mm x 75 mm
  - 69.3.3 12 mm x 100 mm
  - 69.3.4 15 mm x 125 mm
  - 69.3.5 15 mm x 150 mm
  - 69.3.6 16 mm x 100 mm
  - 69.3.7 18 mm x 150 mm
  - 69.3.8 25 mm x 100 mm
  - 69.3.9 25 mm x 150 mm
  - 69.3.10 25 mm x 200 mm
  - 69.3.11 32 mm x 200 mm
  - 69.3.12 38 mm x 200 mm
- 69.4 Test tube All Graduated 11ml. (10 mm. Diameter) for measuring milk Pipette.
- 69.5 Measuring Cylinder 100ml Borosilicate Glass
- 69.6 Laboratory Safety Goggles.



## 71.0 Laboratory Chemicals:

- 71.1 Acetone 500 ml Bottle
- 71.2 Diastix (50 Sticks Pack)
- 71.3 Resorcinol (250 grams. Bottle)
- 71.4 Phenolphthalein solution (125 ml Bottle)
- 71.5 Sodium Hydroxide N/10 (500 ml Bottle)
- 71.6 Leishman Methanol (500ml Bottle)
- 71.7 Lactic Acid (500 grams Bottle)
- 71.8 Starch 250 grams
- 71.9 Universal Indicator for pH (100 ml Bottle)

## 72.0 Sealing Accessories

- 72.1 Lead Seal ½” size.
- 72.2 Sealing Wire Twisted Commercial Quality 20/33.
- 72.3 Sealing Pincer with mark of the Customer.
- 72.4 Aluminum Hand Bottle Capper.
- 72.5 Spare Rubber Washers for Hand Bottle Capper.
- 72.6 Aluminum Foils Caps 38 mm for Milk Bottles

## 70.0 Milk Preservatives for laboratory use:

- 70.1 Formalin (400 grams Bottle)
- 70.2 Methylene Blue tablet (pack of 50 tablets)
- 70.3 Potassium Dichromate Tablets (Pack of 1000 tablets)

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# Original Cream Separator

## 73.0 Cream Separators 60 LPH

73.1 N.S - 7: Hand Driven Table Model, Capacity 60 Liter/Hour, with Stainless Steel Bowl Discs.

73.2 N.S - 7: Same as above but with Side aligned Tank.

73.3 N.S.S. - 7: Hand Driven Table Model, Capacity 60 Liter/Hour with All Milk Contacting parts Bowl, Receiving Tank and Spout Set in SS 304

73.4 E.S. - 7: Electrically Driven Table Model of motor AC 220 V 50 Hz, Capacity 60 Liter/Hour with Stainless Steel Bowl Discs.

73.5 E.S.S. - 7: Electrically Driven Table Model of motor AC 220 V 50 Hz, Capacity 60 Liter/Hour with All Milk Contacting parts Bowl, Receiving Tank and Spout Set in SS 304.



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# Original Cream Separator



## 74.0 Cream Separators : 90 LPH

74.1 E.S. - 8 Super  
Electrically Driven Table  
Model of motor AC 220 V 50  
Hz, Capacity 90 Liter/Hour  
with Complete Aluminum  
Bowl,  
Receiving Tank and Spout Set.



## 75.0 Cream Separators: 100 LPH

75.1 N.S. - 8: Hand Driven  
Table Model, Capacity 100 Liter/Hour,  
with Stainless Steel Bowl Discs.

75.2 N.S. - 8: Same  
as above but with Top aligned Tank.

75.3 N.S.S. - 8:  
Hand Driven  
Table Model  
Capacity 100  
Liter/Hour  
with All Milk  
Contacting  
parts Bowl,  
Receiving  
Tank and  
Spout Set in  
SS 304.



## 76.0 Cream Separators: 165 LPH

76.1 N.S. - 9: Hand  
Driven  
Table Model,  
Capacity  
165 Liter/Hour,  
with  
Stainless Steel  
Bowl  
Discs.



76.2 N.S.S. - 9: Hand  
Driven Table  
Model,  
Capacity 165  
Liter/Hour  
with All Milk Contacting  
parts Bowl, Receiving  
Tank and Spout Set  
in SS 304.

76.3 E.S. - 9: Electrically  
Driven Table Model of  
motor ¼ H.P. AC 220 V 50 Hz,  
Capacity 165 Liter/Hour with  
Stainless Steel Bowl Discs.

76.4 E.S.S. - 9: Same as above  
but with all Milk Contacting  
parts Bowl, Receiving Tank  
and Spout Set  
in SS 304.

76.5 E.A.S -9: Same  
as above but  
with provision  
for Manual as  
well  
as motor  
driven  
operation. It Is  
complete with  
heavy Base  
Plate  
& Auto Speed  
pulley. This  
attachment enables the model to



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## 77.0 Cream Separators: 325 LPH

77.1 N.S. - 11: Hand Driven with Capacity 325 Liters/Hour, with Stainless Steel Bowl Disc.



77.2 N.S.S - 11: Same as above but with All Milk Contacting parts Bowl, Receiving Tank and Spout Set in SS 304

77.3 E.S. - 11: Electrically Driven with ¼ H.P. Single Phase A.C, Capacity 325 Liters/Hour, with Stainless Steel Bowl Disc.

77.4 E.S.S - 11: Same as above but with All Milk Contacting parts Bowl, Receiving Tank and Spout Set in SS 304.

77.5 Alpha - 11: Electrically Driven with ¼ H.P. Single Phase A.C, Capacity 325 Liters/Hour, with Stainless Steel Bowl Disc.

77.6 Alpha - 11SSS: Electrically Driven with ¼ H.P. Single Phase A.C, Capacity 325 Liters/Hour, with All Milk Contacting parts Bowl, Receiving Tank and Spout Set in SS 304.

## 78.0 Cream Separators: 550 LPH

78.1 N.S. - 13: Hand Driven with Capacity 550 Liters/Hour, with Stainless Steel Bowl Disc.

78.2 N.S.S - 13: Same as above but with All Milk Contacting parts Bowl, Receiving Tank and Spout Set in SS 304.

78.3 E.S. - 13: Electrically Driven with ½ H.P. Single Phase A.C, Capacity 550 Liters/Hour, with Stainless Steel Bowl Disc.

78.4 E.S.S - 13: Same as above but with All Milk Contacting parts Bowl, Receiving Tank and Spout Set in SS 304.

78.3 Alpha - 13: Electrically Driven with ½ H.P. Single Phase A.C, Capacity 550 Liters/Hour, with Stainless Steel Bowl Disc.

78.4 Alpha - 13SSS: Electrically Driven with ½ H.P. Single Phase A.C, Capacity 550 Liters/Hour, with All Milk Contacting parts Bowl, Receiving Tank and Spout Set in SS 304.



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# Original Cream Separator



## 79.0 Cream Separators: 800 LPH

- 79.1 ALPHA -14: Electrically Driven with ½ H.P. Single Phase Motor, Capacity 800 Liters/Hour, and all Milk Contacting Parts made from Stainless Steel AISI 304.



## 80.0 Cream Separators: 1000 LPH

- 80.1 NE -1000 (ALPHA) : Electrically Driven with 1 H.P. Three Phase Motor of Capacity 1000 Liters/Hour, All Milk Contacting Parts made from Stainless Steel AISI 304.
- 80.2 NE-1000 Capacity 1000 Liters/Hour, Hermetic Type Solid Bowl, Electrically Driven with 1 H.P. Three Phase Motor of All Milk Contacting Parts made from Stainless Steel AISI 304.

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# Original Cream Separator



**81.1VTC-1000**



**81.2VTC-3000**



**81.3NE-5000 ONLINE**

## 81.1 VTC-1000

Capacity 1000 Liter/Hour  
Hermetic Type Solid Bowl. The Separator is Tri-purpose Online with Built-in Feed Pump. All Milk Contacting Parts are of Stainless Steel AISI 304 with 1 H.P. Three Phase Electric motor.

## 81.2 VTC-3000

Capacity 3000 Liter/Hour  
Hermetic Type Solid Bowl. The Separator is Tri-purpose Online with Built-in Feed Pump. All Milk Contacting Parts are of SS 304 with 5 H.P. Three Phase Electric motor.

## 81.3 VTC-5000

Capacity 5000 Liter/Hour  
Hermetic Type Solid Bowl. The Separator is Tri-purpose Online with Built-in Feed Pump. All Milk Contacting Parts are of SS 304 with 5.5 Kw Three Phase Electric motor.

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# Original Milk & Ghee Clarifier



## 82.0 Milk Clarifier:



82.1 N.E.M.C.-1000:  
Capacity  
1200 Liter/Hour  
Hermetic Type. The  
Clarifier is Online  
Solid Bowl; All Milk  
Contacting Parts are  
of AISI-304 with 1  
H.P. Three Phase  
Electric Motor.

82.2 N.E.M.C.-3000:  
Capacity  
3300 Liter/Hour  
Hermetic type. The  
Clarifier is Online  
Solid Bowl; All Milk  
Contacting Parts are  
of SS-304 with 5 H.P.  
Three Phase Electric  
Motor.



## 83.0 Ghee Clarifier:

N.E.G.C.-1000: Ghee Clarifier Centrifuge with  
Capacity 750-1000 Liter/Hour, Complete Bowl,  
Bowl Disc and Spout Set made from SS 304 with 1  
H.P. Three/Single Phase A.C Motor.

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84.1 Hand Operated Butter Churners  
H.B.C.-0.5: Hand Operated Stainless Steel Butter Churners of Barrel Capacity 5 Liter with M.S. Base for Home use and Laboratory Purpose.



84.1.1 H.B.C.-1: Hand Operated Stainless Steel Butter Churners of Barrel Capacity 10 Liter with M.S. Base.



84.1.2 H.B.C.-2: Hand Operated Stainless Steel Butter Churners of Barrel Capacity 20 Liter mounted on M.S. Stand with Input/Output Door, Sight Glass, Air Discharge Nipple and Drain Outlet.



84.1.3 H.B.C.-3: Hand Operated Stainless Steel Butter Churners of Barrel Capacity 30 Liter mounted on M.S. Stand with Input / Output Door, Sight Glass, Air Discharge Nipple and Drain Outlet.



84.1.4 H.B.C.-6: Hand Operated Stainless Steel Butter Churners of Barrel Capacity 60 Liter mounted on M.S. Stand with Input / Output Door, Sight Glass, Air Discharge Nipple and Drain Outlet.



84.1.5 H.B.C.-9: Hand Operated Stainless Steel Butter Churners of Barrel Capacity 90 Liter mounted on M.S. Stand with Input / Output Door, Sight Glass, Air Discharge Nipple and Drain Outlet.



84.2 Electric Operated Butter Churners

84.2.1 E.B.C.-1: Stainless Steel Electrically Operated Butter Churners with Barrel Capacity 5 Liters/ Churning Capacity 3 Liters, pillar mounted on S.S. Stand AC 220 Volts 1/10 H.P. Single Phase Motor.



84.2.2 E.B.C.-2: Stainless Steel Electrically Operated Butter Churners with SS AISI 304 Barrel Capacity 10 Liters/ Churning Capacity 6 Liters, pillar mounted on S.S. Stand AC 220 Volts 1/2 H.P. Single Phase Motor.



84.2.3 E.B.C.-3: Bench Type, Stainless Steel Electrically Operated Butter Churner with SS AISI 304 Barrel Capacity 60 Liters/ Churning Capacity 50 Liters, pillar mounted on S.S. Stand with Rotating Barrel Type Configuration AC 220 Volts 1/2 H.P. Single Phase Motor.



84.2.4 E.B.C.-6: Stainless Steel Electrically Operated Butter Churners with SS AISI 304 Barrel Capacity 60 Liters mounted on M.S. Stand with Input / Output Door, Sight Glass, Air Discharge Nipple and Drain Outlet with Complete Water Spray. Variable Speed Drive, AC 220 Volts 1/2 H.P. Single Phase Motor.



84.2.5 E.B.C.-9: Stainless Steel Electrically Operated Butter Churners with SS AISI 304 Barrel Capacity 90 Liters with Input / Output Door, Sight Glass, Air Discharge Nipple and Drain Outlet with Complete Water Spray Rod. Variable Speed Drive, Gear box mounted on M.S. Strong Frame AC 220 Volts 1 H.P. Single



Note: Specifications are subject to change.

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## 84.3 High Capacity Electrically operated Butter Churners

84.3.1 H.B.A-15: Stainless Steel Electrically Driven with Barrel Capacity 150 liters of AISI 304 Quality, with Input / Output Door, Sight Glass, Air Discharge Nipple, Drain outlet with Complete Water Spray rod, Variable Speed drive Gear Box Mounted on Mild Steel Strong Frame AC 220/440 Volts 1 H.P. Single/Three Phase Motor.



84.3.2 H.B.A-25: Stainless Steel Electrically Driven with Barrel Capacity 250 liters of AISI 304 Quality, with Input / Output Door, Sight Glass, Air Discharge Nipple, Drain outlet with Complete Water Spray rod, Variable Speed drive Gear Box Mounted on Mild Steel Strong Frame AC 220/440 Volts 2 H.P. Single/Three Phase Motor.



84.3.3 H.B.A-50: Stainless Steel Electrically Driven with Barrel Capacity 500 liters of AISI 304 Quality, with Input / Output Door, Sight Glass, Air Discharge Nipple, Drain outlet with Complete Water Spray rod, Variable Speed drive Gear Box Mounted on Mild Steel Strong Frame AC 440 Volts 3 H.P. Three Phase Motor.



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84.4 Butter Trolley

84.4.1 Trolley Capacity of 150 Kg having Drain Outlet and Sand Blasted from Inside.



84.4.2 Trolley Capacity of 250 Kg having Drain Outlet and Sand Blasted from Inside.

84.5 Butter Worker :



84.5.1 Wooden Butter Worker made of Teak Wood of suitable stand Capacity of 5 Kg.

84.5.2 Wooden Butter Worker made of Teak Wood of suitable stand Capacity of 10 Kg.

84.5.3 Wooden Butter Worker made of Teak Wood of suitable stand Capacity of 12.5/14 Kg.

84.6 Butter Print Table: Paddle operated in Print table available in the following variants with capacity to :

- 84.6.1 Make 9 Cakes of 25 Gms at a time.
- 84.6.2 Make 24 Cakes of 25 Gms at a time.
- 84.6.3 Make 36 Cakes of 25 Gms at a time.
- 84.6.4 Make 9 Cakes of 50 Gms at a time.
- 84.6.7 Make 4 Cakes of 100 Gms at a time (Amul Shaped).
- 84.6.6 Make 2 Cakes of 500 Gms at a time (Amul Shaped).
- 84.6.7 Table with 4 Cavity Block Suitable for

84.7 Butter Extruder (Moulder):

Extruder for Cake Size 100 Gms to 500 Gms, Electrically Driven, Made from Stainless Steel 304, mounted on SS 304 frame, Equipped with Manual Wire Cutter to cut down cake in to desired Sizes. AC 220/440 Volts 1 H.P. Single/Three Phase motor.



84.8. Butter Making Accessories:

84.8.1 Butter Moulds: Rectangular Shaped made from Teak Wood.

84.8.2 Butter Scrape: Hand teak Wood of size 10"X3",

84.8.3 Butter : Hand teak Wood of size 12"X3",

84.8.4 Butter : Hand teak Wood of size 14"X3"

84.8.5 Butter : Hand teak Wood of size 12"X4".

84.8.6 Butter : Stainless Steel size 175X75 mm of thickness 12 mm complete with Handle non stick surface.

84.8.7 Butter Scoop: Perforated Scoop of Size 10"X4"

84.8.8 Butter Scoop: Perforated Scoop of Size 12"X5"

84.8.9 Butter Scoop: Perforated Scoop of Size 14"X6".

84.8.10 Butter Board: Made of teak Wood, in Size 12"X8"X1".

84.8.11 Butter Knife: Made of Teak Wood Size 12"X3" in

84.8.12 Butter Knife: Made of Teak Wood Size 15"X4". in

84.8.13 Butter Beater: Size 18"X3".

84.8.14 Butter Cream Sieves: Teak wood frame with Nylon Filter.

84.8.15 Butter Ladle: Plain Type in size 15"X3"

84.8.16 Butter Ladle: Plain Type in size 18"X3".

84.8.17 Butter Salt: Pure white Colour 450 Gms.

84.8.18 Butter Colour: Annatto Grade 5 Liter jar.

84.8.19 Butter Moisture Balance with Accessories: Complete with melting cup, wire holder for butter scoop, spirit lamp. Butter weight available in Small Rider and Large Rider.

84.8.20 Butter Shovels: Stainless Steel having blade thickness 3 mm, Size 270 X 240 mm Handle, 38 mm Pipe grip, Sand Blasted.



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# Packing & Sealing Machine



## 85.0 Milk Packing and Sealing Machines:

- 85.1.1 8" Sealing Length
- 85.1.2 10" Sealing Length
- 85.1.3 12" Sealing Length



## 85.2 Paddle Operated Sealing Machine Standing Model: Available in

- 85.2.1 Sealing Lengths of 10"
- 85.2.1 Sealing Lengths of 16"



## 85.3 Manual Cup Sealer

Table top design of M.S. Construction, Container sizes of 69mm, 80mm, 95mm, and 123mm. This machine requires Independent aluminum or plastic flaps which are placed upon the cup and pressed by the machine for sealing.



## 85.4 Semi-Automatic Cup Sealer

Table top design of S.S. Construction, Container sizes of 69mm, 80mm, 95mm, and 123mm. this machine is equipped with plastic role which is used to seal the plastic cup and in the single operation it also cuts the role as per the sizes of the cup.



## 85.5 Automatic Liquid Filling / Packing Machine (Single Head)200-500ml ModelAMPM 1

With an output of 1300-1600 bags per hour and capacity of packs ranging from 200ml-500ml. This machine is being widely used to pack liquids of low and high viscosity such as milk, fresh cream, curd,lassi, flavored milk, pure water, juice, beverages soy sauce, vinegar and wine. Its power requirements are 7 5 K w, 2 2 0 / 3 8 0 V A C . S i z e l s 850X750X1600mm. It automatically sterilizes the film with Violet Ray, forms the bag, prints the code precisely, fills & seals and cuts the bag at one time. This machine can use a single layer PE film and also Co-extrusion film to present more attractive packing.



## 85.6 Automatic Liquid Filling/Packing Machine (Single head) 500-1000ml ModelAMPM 2

With an output of 1300-1600 bags per hour and capacity of packs ranging from 5 0 0 m l - 1000ml. This machine is being widely used to pack liquids of low and high viscosity such as milk, fresh cream, curd, lassi, flavored milk, pure water, juice, beverages soy sauce, vinegar and wine. Its power requirements are 75 Kw, 220/380 VAC. Size : 950X850X1900mm. It automatically sterilizes the film with Violet Ray, forms the bag, prints the code precisely, fills & seals and cuts the bag at one time. This machine can use a single layer PE film and also Co-extrusion film to present more attractive packing.



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## 86.0 Milk Pumps

The pump of 2900 RPM and TEFC design suitable for operation on Single/ 3 Phase, 50 Hz, AC supply directly coupled to the motor. All the parts coming in direct contact with milk are of Stainless Steel AISI 304 quality, finished to dairy standards. The motor portion will be S.S. Shrouded. The shroud has air circulation holes and cable entry. The pump is fitted with 3 no. S.S. legs. Pumps available in the following variants

86.1	3000 LPH at 8 MWC with 0.5 HP Motor
86.2	5000 LPH at 10 MWC with 1 HP Motor
86.3	7000 LPH at 18 MWC with 1.5 HP Motor
86.4	7000 LPH at 20 MWC with 2 HP Motor
86.5	10000 LPH at 20 MWC with 3 HP Motor
86.6	15000 LPH at 35 MWC with 5 HP Motor



## 87.0 Batch Type Milk Bottle Sterilizer:

Bottle Sterilizer made of 6mm M.S. Sheet Rolled welded construction, horizontal with M.S. Frame for placing bottle crate capacity 480X200ml bottle per batch. The sterilizer is supplied with quick closing/ opening screw type door and steam spraying device on top and mounting. It is supported on four MS Pipe for floor mounting. The following accessories supplied with sterilizer in single quantity:

1 No.	Steam Trap
1 No.	Pressure Guage
1 No.	Safety Valve
1 No.	Blow off Cock
1 No.	Dial Thermometer



## 88.0 Batch Pasteurizer:

Triple walled with inner shell fabricated from stainless steel 304 quality sheet. Sufficient insulation will be provided to ensure no heat loss. One reduction gear box attached with electric motor fitted on top. Agitator SS 304 with shaft and blade will be provided on the top. It is available in the following batch capacity:

88.1	500 Liters
88.2	250 Liters
88.3	100 Liters
88.4	40 Liters



## 89.0 Pasteurization Unit Continuous

- Inbuilt Stainless Steel electrical water heating set.
- Temperature regulation through Control Panel for controlling of the pasteurization and outlet temperature.
- Inbuilt electrical water heater for use when steam or hot water isn't available.
- It can be used for pasteurization of milk cream & other products as well.
- Balance tank is made of SS, polished inside and outside equipped with S.S. Float & lose cover.
- Stainless Steel centrifugal for product complete with electrical motor.
- SS Frame clad Plate Heat Exchanger..
- External Holding Time: 20 Seconds
- Pasteurization Temp: 730 C/ 830 C.
- Set of internal SS pipes, fittings and base frame for mounting of the equipment.
- Unit Consists of Receiving tank, inline filter, Plate Heat Exchanger, Control Panel, Holding Tubes, Manual Flow Diversion Valve, Hot Water Pump, Hot Water Generator or steam mixing battery.



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# Bulk Milk Cooling Systems



## 90.0 Bulk Milk Coolers

### 90.1 Open Type Round Shaped Cooling Tanks:

Open Type Round Shaped Direct Expansion cooling tank. It has large opening lids for easy access and rounded internal corners to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50 mm. The integral condensing unit is Hermetic Type with R22 refrigerant. The condensing unit is beneath the tank to occupy minimum space.

90.1.1 Capacity 250 Liters

90.1.2 Capacity 500 Liters

- Low Running Cost
- High Standard of Milk Hygiene
- Reduced Electricity Consumption
- Agitator on/off Switch
- Cooling on/off Switch
- Digital temperature Display
- 350 C to 40 C within 3 hours for 1st milking & 100 C to 40 C within 1.5 hours for the 2nd milking
- Condensing Unit Hermetic, 220 V Single phase, 50 Hz Supply
- Two Milking Tank Design
- All SS 304

### Features :



## 90.2 Open Type Semi Cylindrical Rectangular Shape:

Open Type Semi Cylindrical Rectangular Shaped Direct Expansion cooling tank. It has large opening lids for easy access and rounded internal corners to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50 mm. The integral condensing unit is Hermetic Type with R22 refrigerant. The condensing unit is beneath the tank to occupy minimum space.

90.2.1 Capacity 500 Liters

90.2.2 Capacity 1000 Liters

- Low Running Cost
- High Standard of Milk Hygiene
- Reduced Electricity Consumption
- Agitator on/off Switch
- Cooling on/off Switch
- Digital temperature Display
- 350 C to 40 C within 3 hours for 1st milking & 100 C to 40 C within 1.5 hours for the 2nd milking
- Condensing Unit Hermetic, 220 V Single phase, 50 Hz Supply
- Two Milking Tank Design

### Features :



Note: Specifications are subject to change.

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## 90.3 Fully Enclosed Type with Top Lid :

Fully Enclosed Type Bulk Milk Cooler with Top Lid having CIP(Cleaning in Place) system. The Washing is done by CIP with Spray Balls fitted inside the tank. It has complete automatic cooling control with digital control panel. It has rounded internal corners to facilitate through cleaning. Tank insulation is provided by factory injected polyurethane foam of 50 mm. The integral condensing unit is Hermetic Type with R22 refrigerant.

- 90.3.1 Capacity 2000 Liters
- 90.3.2 Capacity 3000 Liters
- 90.3.3 Capacity 5000 Liters

# Features

- Low Running Cost
- High Standard of Milk Hygiene
- Reduced Electricity Consumption
- Agitator on/off Switch
- Cooling on/off Switch
- Digital temperature Display
- 350 C to 40 C within 3 hours for 1st milking & 100 C to 40 C within 1.5 hours for the 2nd milking
- Condensing Unit Hermetic, 220 V Single phase, 50 Hz Supply
- Two Milking Tank Design
- All SS 304
- Double Compressor unit



Note: Specifications are subject to change.

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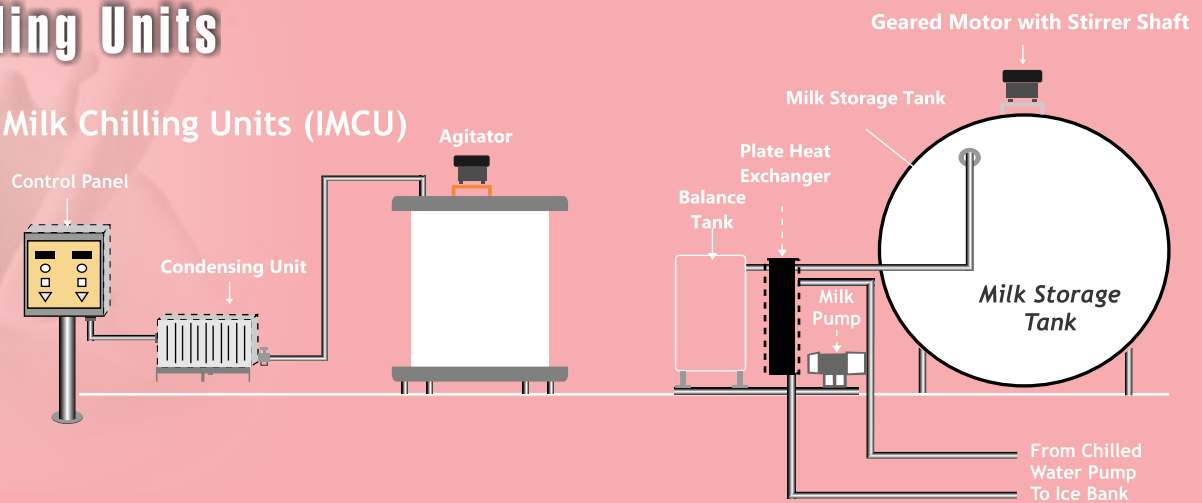
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# Milk Chilling Units

## 91.0 Instant Milk Chilling Units (IMCU)



### 91.1 IMCU 10000 Liters Per Day:

Works on 1000 Liters per hour Instant Chilling Basis. Milk is Milk is cooled from 350 C to 40 C. The Complete package includes:

- Balance Tank 200 Liter - 1 Nos.
- Milk Pump 1 HP - 1 Nos.
- In line Milk Filter - 1 Nos.
- Plate Heat Exchanger 1000 LPH - 1 Nos.
- Milk Storage Tank Double Compartment 10000 Liter having inner and outer shell of Stainless steel Construction - 1 Nos.
- Hermetic Compressor of 7.5 TR with IBT, Spray Pound and Control Panel - 2 Nos.
- Chilled Water Pump & Condenser water Pump - 1 Set
- SS/MS/GI Pipeline and fittings - 1 Lot.
- Electrical Panel and Cabling - 1 Lot.

### 91.2 IMCU 5000 Liters Per Day:

IMCU Works on 1000 Liters per hour Instant Chilling Basis. Milk is cooled from 350 C to 40 C. The Complete package includes:

- Balance Tank 100 Liter - 1 Nos.
- Milk Pump 1 HP - 1 Nos.
- In line Milk Filter - 1 Nos.
- Plate Heat Exchanger 1000 LPH - 1 Nos.
- Milk Storage Tank Double Compartment 5000 Liter having inner and outer shell of Stainless steel Construction - 1 Nos.
- Hermetic Compressor of 5 TR with IBT and Control Panel - 2 Nos.
- Chilled Water Pump & Condenser water Pump - 1 Set
- SS/MS/GI Pipeline and fittings - 1 Lot.
- Electrical Panel and Cabling - 1 Lot.

### 91.3 IMCU 2500 Liters Per Day:

IMCU Works on 500 Liters per hour Instant Chilling Basis. Milk is cooled from 350 C to 40 C. The Complete package includes:

- Balance Tank 100 Liter - 1 Nos.
- Milk Pump ½ HP - 1 Nos.
- In line Milk Filter - 1 Nos.
- Plate Heat Exchanger 500 LPH - 1 Nos.
- Milk Storage Tank Double Compartment 2500 Liter having inner and outer shell of Stainless steel Construction - 1 Nos.
- Hermetic Compressor of 2.5 TR with IBT, Spray Pound and Control Panel - 2 Nos.
- Chilled Water Pump & Condenser water Pump - 1 Set
- SS/MS/GI Pipeline and fittings - 1 Lot.
- Electrical Panel and Cabling - 1 Lot.

Note: Specifications are subject to change.

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## 92.0 Milk Chilling Units & Accessories

**92.1 Plate Cooler/Chiller** It is a highly efficient and cost-effective method to pre-cool milk and has features such as instant Milk cooling, reduced Energy Cost. Its wide range enables the most cost effective size to be used and is virtually maintenance free. It has Expandable size to meet future requirement of increased Milk Production.



Herringbone plate: Bright Annealed Stainless Steel.

End Plates Grade: 304 Stainless Steel.  
Gaskets : Food Grade Rubber  
Water Flow: Min - Equal to Milk Flow, Max - 3 times the flow  
Water/Milk Pressure: Maximum 2 Bar (29 PSI)

92.1.1 Available in capacity ranging from 500 LPH to 10000 LPH.

92.1.2 For Brine Water application on water Side having plate of SS 316 & Capacity of 5000 Liter per hour and 10000 Liter per Hour.

### 92.2 Dump Tank

This is used as receiving tank made of 2 mm SS 304 sheet. It is rectangular shaped with open top of 1.6 mm SS Cover and has 4 SS tubular Legs and SS Plug cork 38 mm Diameter if SMS type. It is available in:



92.2.1 Capacity of 1000 Liter Per hour  
92.2.2 Capacity of 500 Liter per Hour  
92.2.3 Capacity of 250 Liter per Hour

**92.3 Float Balance Tank Capacity:** Balance Tank of Stainless steel 304 quality, polished interior and exterior equipped with SS 304 Float and Loose Cover. It is available in two variants which are as follows:



92.3.1 Capacity of 20 Liters  
92.3.2 Capacity of 250 Liters

Cheese & Paneer Processing

## 93.0 Cheese / Paneer VATS & Accessories

**93.1 Cheese/Paneer VATS:** Made of SS 304 in triple jacket with provision for hot water circulation. The VAT is equipped with Agitator and Cheese Knife. Available in Following Models:

93.1.1 500 Liters  
93.1.2 1000 Liters  
93.1.3 2000 Liter

**93.2 Cheese/Paneer Press:**

93.2.1 P n e u m a t i c a l l y operated: machine is supplied without Hoops and compressor Available in two models:

93.2.1.1 Capacity to Hold 5 Moulds of 10 Kg  
93.2.1.2 Capacity to Hold 5 Moulds of 20 Kg

93.2.2 Screw operated: The machine is supplied without Hoops. Available in Two Models:

93.2.2.1 Capacity to Hold 2 Moulds of 10 Kg  
93.2.2.2 Capacity to Hold 2 Moulds of 20 Kg



**93.3 Cheese/Paneer Hoops:**

Made out of SS 304 in 3 sections is available in the following Variants:

93.3.1 Rectangular Shape of Capacity 10 Kg  
93.3.2 Rectangular Shape of Capacity 20 Kg  
93.3.3 Round Shape of Capacity 10 Kg  
93.3.4 Round Shape of Capacity 20 Kg



**93.4 Mozzarella Cheese Hoop:**

Made out of SS 304 having single piece construction available in two sizes:

93.4.1 Capacity of 1 Kg  
93.4.2 Capacity of 2 Kg



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# Mini Dairies



## 94.0 Mini Dairies

94.1 Mini Dairy for Pasteurized Milk in Pouches This plant includes continuous systems of milk pasteurization using HTST Technology. The pasteurized milk is filled automatically in pouches. However a provision for butter making is also provided. The plant will be equipped with Milk Reception, Storage, Pasteurization, Cream Separator, Automatic Form Filling & Sealing Machine, Butter Making, Mini Quality Control Laboratory, all utilities like refrigeration, hot water, and electrical for supplies only. We shall also provide standard machinery layout, building plan, operational manual. The installation and commissioning, training and any other project management services will be provided on requisite only. We offer these plants in three standard capacities as below



- 94.1.1 Mini Modular Dairy for Pasteurized Milk in Pouches 1000 Liters/day
- 94.1.1 Mini Modular Dairy for Pasteurized Milk in Pouches 2000 Liters/day
- 94.1.1 Mini Modular Dairy for Pasteurized Milk in Pouches 5000 Liters/day

## 94.2 Composite Dairy Plants for Milk Products Yogurt/Butter Milk/Lassi/Curd

This plant will consist of Milk Reception, Homogenization, Heating, using TLT (Batch) technology. The final product will be packed using manual filling & sealing system in Plastic Pre-formed cups/Glass/Pouches. This unit will have provision for incubation Chamber and cold storage for the finish product the plant will come with all the utilities for heating, chilled water, and electrical for our supplies only. The plant will also come with Mini Quality Control Lab. These plants are available in two standard capacities as given below:



- 94.2.1 500 LPD
- 94.2.2 2000 LPD
- 94.3 Cheese / Paneer making Unit

The plant will comprise of Milk Reception, Chilling, Storage, Milk Culturing /Renneting/ Acidification System, Cooking Milling, Moulding, Pressing, Brining, Packing and storage. These Units can process Cheddar Cheese, Mozzarella Cheese & Cottage Cheese (Paneer). The plant will come with all the utilities like refrigeration, heating and electrical for our supplies only. The Plant will have Mini Quality Control Lab also. These plants are available in:



## 94.4 Mini Dairies with Technology Transfer

94.4.1 Low cholesterol and anhydrous butter fat (Ghee) 500 kg/day This plant will use patented technology. This plant will receive fresh cream as raw material and using some chemical process. It will convert cream into low cholesterol ghee. The unit will have provisions for cream storage, heating & boiling, settling, clarification, storage, manual packing in plastic jars or pre-formed pouches. The plant will come with utilities for heating and electrical for our supplies only. The plant will have mini quality control lab also.



94.4.2 Long Life Paneer 500 kg/day : This plant will use patented technology. The plant will consist of milk reception, cream separation, Ultra filtration, culturing/acidification, packaging, sterilization and storage. The plant will come with all the utilities like refrigeration, heating and electrical for our supplies only. The plant will have a quality control lab also

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## 95.0 Milking Machines & Accessories

- 95.1 Hand Operated Milking Machine:  
Hand operated Milking Machines with One Can and One Cluster assembly. An extremely low cost milking machine it is Suitable for small milk heard and places where there is no electricity.



- 95.2 Milking Machine Trolley Mounted

- 95.2.1 Milking Machine Model MM 101:  
Electric motor 220/380V 0.75/1.1Kw driven Milking Machine. It is trolley mounted with One Can and One Cluster with high quality components like :-

- One adjustable Pulsator
- Set of liners and teat cups
- Milk Claw
- Vacuum Controller of 240 LPM, 50 kPa, 1440 RPM



- 95.2.2 Milking Machine Model MM 102:

Electric motor 220/380V 1.1Kw driven Milking Machine. It is trolley mounted with One Can and Two Clusters with high quality components like Two adjustable Pulsators, Set of liners and teat cups, Milk Claw and Vacuum Controller of 250 LPM, 50 kPa, 1440 RPM.



- 95.2.3 Milking Machine Model MM 202:

Electric motor 220/380V 1.1Kw driven Milking Machine. It is trolley mounted with Two Cans and Two Clusters with high quality components like Two adjustable Pulsators, Set of liners and teat cups, Milk Claw and Vacuum Controller of 300 LPM, 50 kPa, 1440 RPM.



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### 95.3 Milking Machine Stationary

#### 95.3.1 Milking Machine Model MM 202A

Electrically Driven Milking Machine with Two Cans and Two Clusters assembly. It is floor mounted, With high quality components Like Two adjustable Pulsators, Set of Liners & Teat Cups, Milk Claw and Vacuum Controller.



#### 95.3.2 Milking Machine Model MM 404A

Electrically Driven Milking Machine with Four Cans and Four Cluster assembly. It is floor mounted, With high quality components Like Four Adjustable Pulsators, Set of Liners & Teat Cups, Milk Claw and Vacuum Controller



#### 95.3.3 Milking Machine Model MM 606A

Electrically Driven Milking Machine with Six Cans and Six Cluster assembly. It is floor mounted, With high quality components Like Six Adjustable Pulsators, Set of Liners & Teat Cups, Milk Claw and Vacuum Controller.



### 95.4 Milking Machine Accessories

#### 95.4.1 Strip Cup Assembly



#### 95.4.2 Drinking Bowl Plastic



#### 95.4.3 Ear Tags for Cows and Buffaloes

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## 96.0 KHOA MACHINE (Milk Condensing Unit)

### Features :

- This machine is used for making Khoa from milk.
- It can be used for mixing of Khoa and sugar for making Pedha & Sweets.
- The machine can be used for variety of recipes where heating and mixing is involved.
- It is available in 3 different capacities.
- The machine is available in choices of LPG Gas operated or Diesel operated.
- The top pan is made of SS-304 and base of Pan is made of thick Mild Steel Sheet for even distribution of heat at bottom.
- The base of pan s also available in SS 304 on special request.
- The top pan revolves with fixed scrapped agitator and fire flame are given at bottom by means of LPG Gas or Diesel.

#### 96.1 Gas Operated Models:

##### 96.1.1 15 Ltr. Capacity

It prepares Khoa of 10 Liter of Milk, It takes around 55 Minutes and Consumes about 0.8 Kg. of Gas, Motor -1/4 H.P. (1 No), Weight - 150 Kg. Volume of Container 55 Liter with Stainless Steel Side Cover.

##### 96.1.2 30 Ltr. Capacity

It prepares Khoa of 20 Liter of Milk in around 55 Minutes and Consumes about 1.5 Kg. of Gas, Motor -1/2 H.P., Weight - 180 Kg. Volume of Container 105 Liter with Stainless Steel Side Cover.

Approx. Size - L 1066 mm x B 760 mm x H 1066 mm  
Approx. Size - L 1220 mm x B 760 mm x H 1066

##### 96.1.3 60 Ltr. Capacity

It prepares Khoa of 30 Liter of Milk in around 45 Minutes and Consumes about 2.5 Kg. of Gas. Motor 1 H.P., Approx. Weight - 280 Kg. Volume of Container 225 Liter with S.S. Side Cover.

Approx. Size - L 1375 mm x B 1066 mm x H 1145 mm



## Available In The Following Models :

#### 96.2 Diesel Operated Models:

##### 96.2.1 15 Ltr. Capacity

It prepare Khoa of 10 Litre of Milk, in around 45 Minutes and Consume about 1.4 Litre of diesel, Motor -1/4 H.P., Weight - 180 Kg. Volume of Container 55 Litre with Stainless Steel Side Cover.

##### 96.2.2 30 Ltr. Capacity

It prepare Khoa of 20 Litre of Milk, It takes around 45 Minutes and Consumes about 2.5 Litre of Diesel, Motor -1/2 H.P., Weight - 260 Kg. Volume of Container 105 Litre with Stainless Steel Side Cover.

##### 96.2.3 60 Ltr. Capacity

It prepare Khoa of 30 Litre of Milk in around 40 Minutes and Consumes about 3.5 Litre of Diesel, Motor -1 H.P., Weight - 345 Kg. with Stainless Steel Side Cover, volume of Container 225 Liter.

Approx. Size - L 1066 mm x B 762 mm x H 1055 mm.

Approx. Size - L 1372 mm x B 915 mm x H 1055 mm  
Approx. Size - L1525 mm x B 1066 mm x H 1145 mm. Approx. Weight - 280 Kg. Volume of Container 225 Liter with S.S. Side Cover. Approx. Size - L 1375 mm x B 1066 mm x H 1145 mm

Note: Specifications are subject to change.

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# Automatic Milk Vending Systems



## 97.0 Automatic Milk Vending Machine

### General Features

- SS 304 Construction
- Refrigerated tank for maintaining the temperature at 4° C. Single delivery with SS float balance tank 20 liters.
- Float balance tank fitted with 3 port valve and 500 ml beaker used as an extension to main tank.
- Electronic push button /remote control operated panel with separate buttons for dispensing 250 ml, 500ml and 1000ml.
- Optional buttons are available on request for bulk sale of 2000 ml and 4000 ml.
- Multiple Vending Options
- Operation : Manual & with Remote
- Battery Back up
- 2X16 Character crystal display with light
- Wheels/fix type arrangement

### Technical Specifications

Power Supply	220 V/ 50 Hz
Cooling	As per ISO 5708 II B
Inner Sheet Thickness	2.0 mm
Outer Sheet Thickness	1.6 mm
Construction	SS 304
Insulation Thickness	55 mm
Milk Outlet	38 mm With Valve



- 97.1 Model VND 222: Stand Alone Vending Machine with Manual Cleaning.
- 97.2 Model VND 242: Stand Alone Vending Machine Automatic Cleaning/
- 97.3 Model VND 222R: Vending Machine Refrigerated Storage Tank with Manual Cleaning.
- 97.4 Model VND 242: Stand Alone Vending Machine Automatic Cleaning/
- 97.5 Model VND 242T: Vending Machine with Storage Tank and Automatic Cleaning.
- 97.6 Model VND 242R: Vending Machine Refrigerated Storage Tank with Automatic Cleaning.
- 98.0 Single Delivery Milk Vending System:
  - FRP Mechanical- 200Liters capacity, Light Weight Insulated Tank, with mechanically operated single delivery point which makes it suitable for mounting on Rickshaw
- 99.0 Spares For Milk Vending Systems:
  - 99.1 Measuring Beaker for Mechanical Vending 500 ml and 1000ml.
  - 99.2 Three port valve for mechanical beaker.
  - 99.3 Mechanical vending set complete with beaker 500ml, three port valve, lever & filling tube.
  - 99.4 Mechanical Plunger
  - 99.5 Rubber Bellow
  - 99.6 Operating Lever



Note: Specifications are subject to change.

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They are available with the following capacity:

## 100.0 Weighing Balances

100.1 Milk Recording Scale(Mechanical):

100.1.1 Mechanical hanging type "Salter Make" available in weighing capacity 25 kg and 50 kg and division in 100gms.



100.1.2 Electronic hanging type "Smart Make" available in weighing capacity 25 Kg and 50 Kg and division in 10 gms.

100.2 Precision Lab Balances (Electronic): Precision balance with round loading pan of 115 mm diameter made in stainless steel. The balance is available in backlit LCD display or Bright Red LED Display with battery backup in the following weighing capacity and least count of 10 mg:

- 100.2.1 Capacity of 150 Gms
- 100.2.2 Capacity of 300 Gms
- 100.2.3 Capacity of 600 Gms
- 100.2.4 Capacity of 750 Gms
- 100.2.5 Capacity of 1200 Gms



100.3 Table Top Scale (Electronic):

With up to 100,000 external divisions display, Piece counting/ Percentage weighing modes, manual/auto accumulation modes, Auto Zero, Glow Control, Pre Tare, Anti Vibration Mode, Weight Verification with 10X accuracy, backup of 50 Hrs supported with a rechargeable battery, with stainless steel platform of size 235mm X 345 mm. They are available with the following capacity:



- 100.3.1 15 Kg with Least count in 2 Gms
- 100.3.2 30 Kg with Least count in 5 Gms

100.4 Water Proof Dairy Scale (Electronic) With up to 100,000 external divisions display, Piece counting/ Percentage weighing modes, manual/auto accumulation modes, Auto Zero, Glow Control, Pre Tare, Anti Vibration Mode, Weight Verification with 10X accuracy, backup of 50 Hrs supported with a rechargeable battery, with stainless steel platform of size 230mm X 197 mm.



- 100.4.1 3 Kg with least Count of 50 mg
- 100.4.2 6 Kg with Least Count of 100 mg
- 100.4.3 15 Kg with Least Count of 200 mg
- 100.4.4 30 Kg with least count of 500 mg

100.5 Bench Scale (Electronic):

Electronic Bench Scale with stainless steel platform of size 400mm X 400mm. The scale is available in Bright Red LED Display with Battery Backup with the following capacity:

- 100.5.1 30 Kg with Least Count of 5 Gms
- 100.5.2 60 Kg with Least Count of 10 Gms
- 100.5.3 120 Kg with Least Count of 20 Gms



100.6 Platform Scale (Electronic)

Electronic Heavy Duty Platform scale with Stainless Steel Platform of size 750mm X 750mm. the scale is available in bright Red LED Display with Battery Backup with the following Capacity:

- 100.6.1 200 Kg with Least Count 50 Gms
- 100.6.2 300 Kg with Least Count of 50 Gms
- 100.6.3 500 Kg with Least Count of 100 Gms



100.7 Weigh Bowl Scale (Electronic):

Electronic weigh Bowl Weigh Scale with Stainless Steel Weigh Bowl made as per N.D.D.B Specifications with Digital display indicator. The scale is available in Bright Red LED display with Battery backup with the following capacity:

- 100.7.1 250 Kg with Least Count of 50 Gms
- 100.7.2 500 Kg with Least Count of 100 Gms



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