

## List of Equipments

S.No	Description	Quantity	Unit Price	Taxes	Total Price
1	Flat perforated screen- 2mm thick and 6 mm perforated x 2000 long x 1000 wide.	2			
2	Paneer Press- 300 x 300 x300 Manual Screw press capacity approx 8 to 10 kg Paneer per press.	20			
3	Vaccum Packing Machine	2			
4	Heavy Duty Milk Crates	200			
5	Milk crates Transportation Trolley	3			
6	Stainless Steel Milk Cans 40 liter capacity	240			
7	Milk Testing Machine	1			

**For Detailed Specification Refer Attachement**



## Technical specifications/details for Dairy Equipments

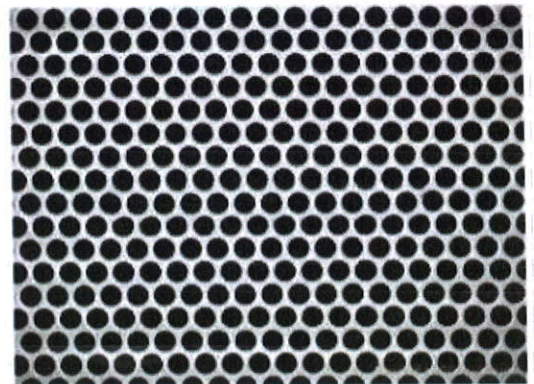
1. Flat perforated screen – 2 mm thk x 6 mm dia perforated x 2000 long x 1000 wide.

### Specification:

- a) Stainless Steel SS-304 material perforated screen.
- b) Screen plate: Dimension 2 x 1 mtr 2 mm thick.
- c) Perforations of 6mm dia @ approx. 12 mm triangular pitch.
- d) All punched holes must be de burred & polished to eliminate possibility of accidental cut & burrs mixing with the Paneer.



Flat perforated screen



Triangular pitch model of holes on the screen

2. Paneer Press 300mm x 300mm x 300 mm

### Specification:

- a) Manual screw press capacity approx. 8 to 10 kg Paneer per press generally built.
- b) The entire press must be fabricated from 2 mm thick SS-304 perforated sheet, and Sq, pipe & Bar sections.
- c) **Capacity:** Per day Paneer production is  $50 \times 3 = 150$  kg.

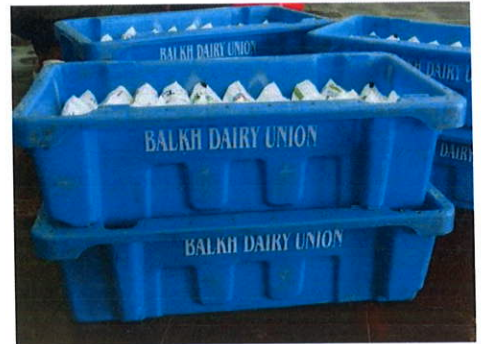




### 3. Milk Crates

#### Specification

- a) Space Saving Stackable Plastic Crates for Milk Pouch.
- b) Should be blue color and **BALKH DAIRY UNION** printed with white color as shown on the picture.
- c) Capacity:  
500 ml x 20 pouches  
200 ml x 50 pouches
- d) Dimension: Approx. Crate dim. (inside +50mm) 525 long x 230 wide x 175 high  
(Outer +50mm) 575 long x 300 wide x 175 high
- e) Stack height with 10 Liters of pouches + 165 mm
- f) Stack height without pouches during return trip +75 mm



### 4. Stainless Steel Milk cans

**Functional Requirements:** Milk cans will be used for transportation of milk from milk collection centers to processing plant and for handling milk in processing plants.

#### Design Requirements

- a) Capacity Liters : 40 liters/Can
- b) Approximate Dimensions : Approx. weight 8Kg  $\pm$  0.5 Kg
- c) Normal Bottom Thickness 3 mm
- d) Inside Dia of Body  $\pm$  3 mm 340  $\pm$  3 mm
- e) Overall Height 591  $\pm$  4 mm
- f) Inside Dia of Neck 200  $\pm$  1mm
- g) Dia of Base 345  $\pm$  3 mm
- h) Capacity in Ltrs. 40
- i) The cap should be PUSH PULL (easy open/close)



5. **Milk Analyzer** : To be used for quick measurement of fat, solid not fat (SNF), temperature, added water and PH (solvated hydrogen ion) in the

**Specification**

<b><u>Parameter</u></b>	<b><u>Measuring Range</u></b>	<b><u>Accuracy</u></b>
FAT	From 0.01% to 45%	± 0.06%
SNF	From 3% to 40%	± 0.15%
Added Water Content	From 0% to 70%	± 3.0%
Temperature of Milk	Form 5°C to 40°C	± 1° C
pH*	From 0 to 14	± 0.05%
Conductivity	From 2 to 14 mS/cm	± 0.05 (mS/cm)

6. **Vacuum packaging Machine (Table Top)**: The vacuum packaging machine to be used for packing various dairy products like Paneer, Cheese etc. in the retail packing of 200 grams to 1000 grams or bulk packaging of 5 Kg in pre formed pouches.

**Specifications**

- a) PLC based control panel.
- b) Mobile with 4 Nos. Trolley wheels.
- c) Stainless steel housing. There should be no sharp edges and it should be easy to wipe.
- d) It should have provision to see the packing process.
- e) Should contain Oil Mist Separator to remove the oil form vacuum pump exhaust.
- f) It should have manual Vacuum Stop Button for liquids and semi liquid.

**7. Trolley for milk cans transportation Stainless SS-304**

Milk cans/yoghurt crates transportation Trolley with SS-304 cladding for in plant service. It should have Hydraulic jack 4 to 6" lift for ground clearance during moving.

Function: The Trolley will be used for transportation of 40 liter milk cans/ milk crates inside the plant. This should be able to transport the milk cans and milk crates described under S.No 3 and S.No 4.

