

1. LAMINATED CARTONS FOR BUTTER PACKING

The Cartons shall be made out of duplex board, cut creased, side seam glued, laminated on the sides with 10 microns Polypropylene / Polyester material. Printing matter as per our design requirements.

DETAILS	BUTTER & SALT BUTTER 100 gm	BUTTER 200gm	BUTTER 500gm
Dimensions (mm)	105mmX70mm X23m±5	104mm X 62mm X 39mm	128mm x76 mm x 65mm±2
GSM	300	300	Min315 ±5
Bursting strength (min)	5.0 Kg \cm ²	5.0 kg/cm ²	5.0kg/cm ²
Flap	Folding flap both top and bottom should be min.15 mm or otherwise it is rejected	Folding flap both top and bottom should be min.15 mm or otherwise it is rejected	Folding flap both top and bottom should be min.15 mm or otherwise it is rejected
Requirement	Refer The Document		

Printing (Multi colour) : Ink should not bleed at – 18 °C

Acceptance Limits: If bursting strength is 4.9-4.50 kg/ cm² proportionate penalty will be imposed. Pasting shall be perfect.

Rejection Conditions:

If it is not confirming the laid down standards as prescribed in the specifications and bursting strength is 4.40 kg/ cm² and below.

2. LAMINATED CARTONS FOR MILK PEDA:

Details	50gm.	100gm.	200gm.	500gm
Description	Duplex board with lamination	Duplex board with lamination	Duplex board with lamination	Duplex board with lamination
Dimension	75x55x17±5 with flabmin.15mm or otherwise it is rejected	75x55x30±5 with flabmin.15mm or otherwise it is rejected	105x75x30±5 with flabmin.15mm or otherwise it is rejected	155x95x50±5 with flabmin.15mm or otherwise it is rejected
Bursting Strength Kg/cm. ²	5.0	5.0	5.0	5.0
GSM	300	300	300	300
Sample	REFER THE DOCUMENT			

Acceptance limits: If bursting strength is 4.9 - 4.50 Kg/cm² Proportionate Penalty will be imposed.

Rejection conditions:

Any parameters are not confirming the laid down standards as prescribed the specification except bursting strength. If the bursting strength is 4.40 kg / cm² and below. Abnormal over weight with wet /moisture condition, dull/not uniform color printing, deviation in dimensions, etc.

Printing Matter (Multi colour):-

Length side (a):

Manufactured by:

Madurai District – Co operative Milk Producers Union Ltd,
Sathyamangalam, Madurai -20

Length Side (b):

Marketed by:

Tamilnadu Co-operative Milk producers Union Ltd,
Pasumpon Muthuramalingam salai Nandanam,
Chennai – 35.

Side Wall flap (a):

Side Wall flap (b)

Batch no:

Fssai lic No:

MFD:

Expiry date:

The Printing on the carton should contain the following data: -

1. Multi colour
2. Ink should not bleed at -20°C
3. Batch No.
4. Packed on :
5. MRP Rs. (inclusive of G.S.T)
6. fssai No: 10015042002098
7. To Be stored below -10°C
8. Veg symbol
9. Use by Date:

3. CURD CULTURE

DESCRIPTION	DIRECT SETLYPOLIZED LACTIC ACID BACTERIA
COMPOSITION	STREPTO COCCUS THERMOPHILUS ,LACTOCOCCUS LACTIC SSP .LACTIS BIOVAR DIACETYLLACTIS
GAS PRODUCTION	NO GAS PRODUCTION
SETTING TIME	4.00 hrs
SETTING TEMPERATURE	40 DEGREE C + \ - 0.5
DOSAGE	UNIT\ 1000 LIT
SHELF LIFE	SHOULD BE MINIMUM 12 MONTHS AT - 18 DEGREE C From the DATE OF MANUFACTURE (OR) 3 MONTHS AT 5 °C
ESCHRECHIA,SALMONELLA ,LISTERIA MONOCYTOGENES	SHOULD BE ABSENT
Requirement	REFER THE DOCUMENT

4. PEDA /KHOA

Printed Vegetable Parchment Paper for Packing

Description: Vegetable parchment paper of 40 GSM and Food grade certificate shall be produced

Vegetable Parchment paper shall be supplied as sheet in specified dimension.

Vegetable Parchment paper should be white in colour with more opaqueness. It should be both waterproof and fat proof. It should remain odourless when left wetted for long time. It should be free from pores.

It should be completely and permanently insoluble in cold as well as boiling water. It should not disintegrate in hot water, salt solution, mild acids and alkalis shall not cause it to disintegrate or lose its wet strength. Parchment paper should not contain impurities like starch, gelatin, casein, formaldehyde or loading material in the form of mineral matter.

Food grade certificate from FSSAI approved laboratory shall be submitted

Overall migration certificate from NABL accredited laboratory shall be submitted.

Description PEDA / KHOA

Dimension -750 mm X 500 mm \pm 10 mm

Average Bursting strength Minimum- 2.3 kg. / cm²

Average GSM -Min 40

Turpentine oil Test -Should pass the test

Manufacture - Each bundle shall be wrapped in a clean Kraft paper

Acceptance Limits- If manufacture defects are noticed 5 % penalty will be imposed, if the bursting strength is 2.2-2.0 kg. / cm².proportionate penalty will be imposed.

Rejection Conditions -If it is not confirmed to the specification. If bursting strength is 1.9 Kg. /cm² and below GSM

Samples- REFER THE DOCUMENT

5. **CUP FOR PACKING 200 GM CURD :**

Material description: Made out of Virgin Food grade by Polystyrene.

Over all migration limit: 10 mg \dm2 (Maximum) Pigment and colorants should be as per IS 9833 -1981 .Total residual styrene monomer shall not exceed 1% by mass of Polymer.

Printing : Printing should be sharp and there should not be any smudging /spreading of print matters.

Food grade certificate&fssai lic no& Form-E should be produced along with tender.

Description	Specification
Top Dia(mm)	95+/-2
Bottom dia(mm)	70+/-2
Height(mm)	54+/-2
Weight(g)(min)	6
TOP/BOTTOM Shape & color	Round & Opaque
Overflow capacity	240 ml

Rejection conditions:

When the materials don't meet the above quality standards, it will be rejected When the food grade certificate is not produced at the time of Tender, The materials will be rejected.

Requirement	:	100gm -8,00,000 200gm -20,00,000
Sample	:	REFER THE DOCUMENT

6. **TANKER METAL SEAL**

S.NO	DETAILS	SPECIFICATION
1.	Material	Metal with plastic coating
2.	Solid Pin	23x84x88 mm (Flat pin head with metal) (Outer diameter x Length x Thickness)
3.	Nut	Locking Bolt : 23 x 32 mm (Rectangle nut)

4.	Colour	Yellow\ Light Blue Items to be engraved (hot foiling) on each seal with 1mm depth 1) Logo of Aavin on the seal pin head and nut side 2) Seal Nos. with English letters AAVIN MDU xxxxx to xxxxx on each nut only
5.	Sample	REFER THE DOCUMENT
6.	Requirement	REFER THE DOCUMENT

7. HDPE WOVEN LAMINATED KRAFT PAPER BAGS FOR 25 KG SMP

S.NO	DETAILS	SPECIFICATION
1.	Description	Sack made of Kraft paper sandwich-laminated to high density polyethylene woven fabric having construction and it shall confirm the specification laid down in IS 11824 :1986
2.	Outer Dimension Average Gussets	880(L) x 450 (W) mm \pm 10 mm in each dimension 100 mm \pm 10 mm
3.	Average Grammage	(Kraft paper +LDPE+HDPE) : 190 GSM(min)
4.	Average weight of the Bags	200 gm (min)
5.	Stitching	The stitching at the side and the bottom of the bag shall be done by two rayon rows of chain or lock stitches using plied yarn of rayon or any other manmade fibre and the number of stitch shall be between 9 to 12/dm. The outer stitch shall be approximately 10 mm away from the edge of the bag and the two rows of stitches shall be about 5mm apart. The stitching shall be uniform and without loose thread or knots.
6.	Colour	Bag –Brown, printing ink shall be aavin blue

S.NO	DETAILS	SPECIFICATION
7.	Acceptable limit	GSM of the Kraft paper + LDPE + HDPE layers is 185 -189 g or weight of a bag is 190-199g proportionate penalty will be imposed (whichever is more)
8.	Rejection condition	<ol style="list-style-type: none"> 1. If it is not confirming to the specified standards except average weight (or) 2. If the average weight of a bag is 189 g and below (or) 3. If GSM is 184 and below
9.	Samples required	REFER THE DOCUMENT
10.	Requirement	REFER THE DOCUMENT

8. CAUSTIC SODA FLAKES:

(Rayon grade or ISI marked IS: 252:1991 marked)

Description-Material shall be white, uniform product and shall be free from dust and other foreign matter and adulterants .

% Purity by mass (as NaOH) - Minimum 96.0%

Manufacture- Shall be packed in transit worthy HDPE Bags. With proper marking of manufacturer name, Brand, Grade

Acceptance limit- If the % purity is 95.90 – 95.0% proportionate penalty will be imposed.

Rejection condition- If the% purity is 94.90% and below

Sample required- REFER THE DOCUMENT

NOTE :

- Proportionate % rate cut shall be imposed for low in % mass/yield
- COA/certificate of analysis report from NABL accredited laboratory duly attested by a notary public and MSDS/material safety data sheet shall be enclosed along with technical bid for consideration.
- Also, COA/certificate of analysis report from NABL accredited laboratory duly attested by a notary public to be submitted in each lorry load/consignment carry caustic soda during tender period or otherwise material is liable for rejection.

9. NITRIC ACID

(Technical grade or ISI marked IS: 264:2005 marked):

Colour- Shall be not darker than pale brown/colorless and virgin material. This shall be free from sediments and other impurities.

Total acidity(as HNO₃, by mass, minimum) - 70.0%

Turbidity- Shall show no turbidity when treated with Silver nitrate solution

Sulphate ion test- NEGATIVE

Acceptance limit- If the Percentage purity is 69.9% - 68.0 %.Proportionate penalty will be imposed.

Rejection condition:

If the % purity is 52.9 % and below. If turbidity test is positive when treated with Silver Nitrate Solution & Sulphate ion test positive.

Samples required- REFER THE DOCUMENT

NOTE :

- Proportionate % rate cut shall be imposed for low in % mass/yield
- COA/certificate of analysis report from NABL accredited laboratory duly attested by a notary public and MSDS/material safety data sheet shall be enclosed along with technical bid for consideration.
- Also, COA/certificate of analysis report from NABL accredited laboratory duly attested by a notary public to be submitted in each lorry load/consignment carry nitric acid during tender period or otherwise material is liable for rejection.

10 . RECTANGLE PLASTIC BOXES TO PACK MYSOREPA:-

SWEET BOX TO PACK MYSORE PAK	SPECIFICATIONS	
DETAILS	250 G	500 G
DIMENSIONS	120x85x40mm ±2	166X115X4±2m m
CAPACITY TO HOLD	250G	500 G
WEIGHT OF THE BOX(min)	16g	28g
WEIGHT LID(min)	10g	18g
BOX COLOR	WHITE PIGMENTED	WHITE PIGMENTED
LID COLOR	TRANSPARENT	TRANSPARENT
PRINTING	2 COLOR	2 COLOR
MATERIAL	ORIGINAL HIGH IMPACT FOOD GRADE POLY PROPELENE	
SAMPLES REQUIRED	REFER THE DOCUMENT	REFER THE DOCUMENT
REQUIREMENT	REFER THE DOCUMENT	REFER THE DOCUMENT

Rejection condition:

1. When the material does not meet the above acceptable quality standards, it will be rejected in the tender/quotation/supply.
2. When the food grade certificate is not produced at the time of tender/quotation Process, the materials will be rejected.

11. POLY ESTER PRINTED POUCH FOR PACKING PANNEER

DETAILS	200GM.	500GM.
Description	Multi color Poly ester Pouch to pack 200 gm Panneer	Multi color Poly ester Pouch to pack 500 gm Panneer
Dimension	5 1\2 x 7 INCHES	7 X 10 INCHES
Thickness	90 micron	90 micron
Samples required	REFER THE DOCUMENT	REFER THE DOCUMENT
Requirement	REFER THE DOCUMENT	REFER THE DOCUMENT

12 . HDPE PARTITIONED PLASTIC CRATES TO PACK MILK POUCHES

Size	Length(mm)	Breadth (mm)	Height (mm)	Tolerance
Inner	427	335	137	+/- 5 mm
Outer	470	378	150	+/- 5 m
Weight	1.50 kg. +/- 5%			
Required qty	REFER THE DOCUMENT			
Sample	REFER THE DOCUMENT			

Colour as per our requirement with embossing of our logo name on both the sides. The crates should be made from the unpigmented HDPE (Confirming to IS 7328-1 that the flow of material is easy and uniform during molding process. The crates shall pass the drop test as per IS 11584 – 1986.

Printed with Aavin logo and Madurai Aavin IN SIDE WALLS

Acceptance/Rejection conditions:

If the average weight of the tub below the required weight and If the other parameters not conforming as prescribed in the specification.

Food grade certificate from FSSAI approved laboratory shall be submitted

13.(A) UNPRINTED POLY LINER FOR 25 KG SMP PACKING

S.NO	DETAILS	SPECIFICATION
1.	Description	Co extruded unprinted made from food grade material. The LDPE poly bags should be made of 1005FY20 granules or equivalent grade. Material shall be free from dust and pin hole.
2.	Size	1075 (L)x540(B) mm \pm 10 mm from the bottom sealing.
3.	Thickness	85 \pm 5 microns
4.	Bottom sealing	The bottom sealing should have 1.5 cm clearance from the bottom edge properly and uniformly. Machine sealed without leakage
5.	Acceptance limit	If thickness is 80 -84 micron 2 % penalty will be imposed and yield per kg proportionate penalty will be imposed up to 10 bags.
6.	Rejection condition	If the thickness below 79 micron. If it is not confirm the laid down standards except thickness and average yield per kg .
		Yield per kg of 10 bags and below
7	Avg yield per KG	Min 11 bags
8	Sample required	REFER THE DOCUMENT
9	Requirement	REFER THE DOCUMENT

- 1) The supplier has to produce the food grade test certificate from reputed laboratories for having used Food grade material as raw material. This should be sent to this union along with first consignment without fail.
- 2) For the subsequent supplies also, Xerox copy of this certificate should be

sent. In addition to that a self declared certificate to the effect that the packing material supplied in that consignment also conform to the original food grade certificate without fail.

13 (B) LDPE GUESSETTED LINER FOR PACKING 20 KGS BUTTER

MATERIAL DESCRIPTION:

Co extrude LDPE film, made out of food grade virgin granules. Liner should be free

from dust, pin holes, extraneous matters Markings otherwise

Summarily

rejected.

DIMENSIONS AND OTHER REQUIREMENTS:

Dimensions: 750 X 600 mm +\ - 10 mm in each dimension with Guesette at both sides and bottom too (i.e. Bag

type)

*Food grade certificate from FSSAI approved laboratory shall be submitted.

Gussets : 250 +\ - 10 mm bottom on sides Bottom

Avg thickness: minimum 50 microns

Yield per kg : Min 13 bags

Bottom seal : Should be perfect

Requirement: REFER

DOCUMENT

Samples: document

Acceptance Limits:50microns

Rejection condition: If the thickness of the film 49 microns and below.

14. FOOD GRADE PET JAR FOR FILLING GHEE:

CAPACITY OF THE JAR	NECK DIA (mm)	JAR WEIGHT (gm)	HEIGHT (mm)	LID WEIGHT (gm)	SHAPE	Over flow capacity
100 ml	35+/-1	10+/-1	85+/-2	3.5+/-0.5	Round	120 ml
Aluminum foil poly coated Min:0.05 mm thickness and 38 mm diameter						
Induction Wad-Thickness Min: 0.8 mm, Dia : 34 mm. It has to be fixed exactly at inner side of the lid.						
200 ml	53+/-1	18±1	95±2	4+/-0.5	RECTANGLE	225
Aluminum foil poly coated Min:0.05 mm thickness and 60 mm diameter						
Induction Wad-Thickness Min: 0.8 mm, Dia : 52 mm It has to be fixed exactly at inner side of the lid.						
500 ml	70+/-1	30±1	110±2	7+/-0.5	RECTANGLE	550
Aluminum foil poly coated Min:0.05 mm thickness and 76 mm diameter						
Induction Wad-Thickness Min: 0.8 mm, Dia : 72 mm It has to be fixed exactly at inner side of the lid.						
1000 ml	80+/-1	46±1	160±2	10+/-0.5	RECTANGLE	1150
Aluminum foil poly coated Min:0.05 mm thickness and 86 mm diameter						
Induction Wad-Thickness Min: 0.8 mm, Dia : 82 mm It has to be fixed exactly at inner side of the lid.						
Samples	Each 5 Nos					

Requirement:

- 1) The P.P lid should be provided two treads and proper locking
 - 2) The Jar with lid should be leak proof while tilting at any direction without poly Coated Aluminum foil/Induction wad.
 - 3) Necessary provision is to be made to seal the jar with heat sealable poly coated Aluminum foil/Induction wad.
 - 4) Aavin logo should be embossed at the top of the lids.foil and wad shall also of food grade.
 - 5) Printing on side labels: As per our design.
 - 6) Samples required each 3 no.
 - 7) Plastic Identity code for PET, that is 7 to be imposed on thebottom of each containers.
 - 8) **AGMARK SYMBOL** must be printed on Aluminum foil.
- Material of certificate from CIPET for usage of virgin PET at jars & PP at Lid&fssai license number validity and form-E should be submitted.
 - Food grade certificate /Overall migration certificate from NABL accredited laboratory shall be submitted. It should confirm the limits of IS:9845.

15 . LABEL FOR PET JAR FOR GHEE PACKING

CAPACITY OF THE JAR	SHAPE	LABEL LENGTH (cm)	LABEL HEIGHT (cm)	THICKNESS (G.S.M)
100 ML	Round	15.7	3.2	90
200 ML	Rectangle	21.3	4.5	90
500 ML	Rectangle	29.0	4.8	90
1000 ML	Rectangle	34.0	7.8	90
Requirement	100ml	200ml	500ml	1000ml
	Refer document	Refer document	Refer document	Refer document
Samples	Refer document			

16. SS MILK CAN WITH LID

AISI: 304 Grades(Preferably ISI Marked)

Capacity	40Litres + 2 %
Average lid weight, min.	0.830 kg
Diameter of the neck	200 ± 0.5 mm
Inside height	573 ± 3 mm
Minimum Hardness	85 HB
Average weight, min. (can + lid)	8.0 kg
Over all height	591 ± 4 mm
Diameter of the bottom base	352 ± 3 mm
Diameter of the body	340 ± 3 mm
Final finishing	shall be perfect
Warranty	shall be min. one year for both lid and can from the date of receipt of material at dairy.
Acceptance/ Rejection conditions	If the average weight of the can and lid below the required weight and If the other parameters not conforming as prescribed in the specification.
Sample	Refer document
<ul style="list-style-type: none">➤ Certificate from NABL accredited & FSSAI approved laboratory stating that it is AISI: 304 grade, IS 1825-1983 & can and lid are suitable for use in dairy industry shall be submitted in technical bid.➤ L1 supplier shall also submit a certificate from NABL accredited & FSSAI approved laboratory stating that it is AISI: 304 grade & can+ lid is suitable for use in dairy industry for each consignment supplied during tender period.	

17. SQUARE TINS for PACKING 15 KGs OF GHEE

(ISI MARKED)

Size :

235 +/-3mm X 235 +/-3mm X 325+/-5 mm, made out of 0.28 mm thick Tin sheet of quality tin plate coated on inside surfaces with food grade quality golden colored lacquer. White lacquer is not acceptable. The lacquer coating should not be less than 4 GSM and not more than 6 GSM and shall be uniform. Minimum weight of the tin with lid should be as per ISI standards. Xerox copy of the license recently issued by the B.I.S is to be enclosed with the tender documents and is to be valid.

Acceptance criteria:

As per IS 10325: 20000 the tolerance limit in height is ± 5 mm, length and breadth is ± 3 mm is acceptable. If the average weight of the tin with lid in the range 925 gm to 975gm is acceptable weight 900 gm to 924gm will be accepted with 2% penalty, imposed.

Embossing: Aavin logo- should be embossed on two opposite sides.

Marking: IS 10325:2000 to be marked at bottom

Handle Soldering - should be perfect

Rejection condition:

If the average weight of the tin is more than 975 gm or less than 900gms. If the other parameters are not confirming as prescribed in the specifications.

Samples required: 2 tins

Requirement:

Refer the document (To be supplied as per our Schedule)

- Certificate for Air-Pressure Test, Handle Pull Test, Hydraulic Pressure Test as per IS 2471 to be obtained from MSME TESTING CENTRE, Guindy, Chennai - 600 032 and should be submitted.
- Supplier should be submit the copy of approval for printing Agmark Replica Numbers.
- Supplier should submit the copy of ISI approval for manufacturing , FSSAI LIC NO & Form-E.

18. **DE SCALING CHEMICALS:**

It should be de scaling and softeners chemical liquid for condenser cleaning

This should remove existing scale in the system. It should be low molecular weight polymer.

Requirement	:	Refer document
Sample	:	Refer document

19. COOLING WATER TREATMENT CHEMICALS:

A. BIOCIDES CHEMICALS:

Micro Biocide for effective control of bacteria ,fungai and algae in Industrial re
circulatory cooling water system.

Requirement	:	Refer document
Sample	:	Refer document

B . SCALLING INHIBITOR CHEMICALS:

It should control scaling and corrosion in cooling water treatment systems. It
should have ability to control scales besides thermal and hydrolytic stability. It
should not contain Chromate. It should prevent accumulation of clay, slit and
other suspended particles.

Requirement	:	Refer document
Sample	:	Refer document

20. 5 PLY CORRUGATED BOXES FOR PACKING

10 KG (20 nos x 500 gm) BUTTER

MATERIAL DESCRIPTION:

Made from 5 ply semi-virgin of 120 GSM graft paper. The inner portion of the boxes shall be free from black Dots/tarry materials, or any objectionable material/odor. Each ply shall strongly bind together and perfect pasting. Number of SS/non-rustable metal pins shall be 8 (2, 2, 2, 2) in four places, It should confirm to IS 2771: Part I – 1990.

DIMENSION & OTHER REQUIREMENTS:

External Dimensions	:	400(L)x285(B)x150mm(H) ±5 mm on the Individual external dimensions.
Average weight of 10 samples	:	Minimum 390 g. Bursting
strength of 10 samples	:	Minimum 7.5 kg. / cm ²
Printing and Art work	:	Common to all DCMPUs except address of manufacturer and License No.

Labeling should as per FSSAI 2013 specification:

Acceptance Limits	:	If average bursting strength is 7.4 – 7.0 kg / cm ² proportionate Penalty will be imposed.
Rejection conditions	:	1. If it is not confirming the specifications or

2. If the bursting strength is
6.90kg/ cm² and below
(or) If GSM 549 and below
Abnormal over weigh with
wet/moisture condition, improper
pasting between plies, dull/not
uniform color printing, deviation in
Dimensions, rusty metal bins etc.

Requirement : Refer document
No. of samples required : Refer document

21. 5 PLY CORRUGATED BOXES FOR PACKING 20 KG. BUTTER

MATERIAL DESCRIPTION:

Made from semi-virgin, 120 GSM kraft paper. The inner portion of the boxes shall be free from black Dots/unwanted materials/ any objectionable material and odor. Each ply shall be strongly bind together and perfect pasting. Number of SS/non-rustable metal pins shall be 8 (2, 2, 2, and 2) in equal intervals at the side, pasted It should confirm to the Standard IS 2771: Part I – 1990.

DIMENSION & OTHER REQUIREMENTS:

Outer Dimensions	:	400 x 345 x 200 mm. \pm 10 mm on the Individual external dimensions.
Average weight	:	Minimum 540 g.
Bursting strength	:	Minimum 7.5 kg. /cm ²
Printing and Art work	:	As per our Design
Labeling:		Provided with should as per FSSAI specifications
Acceptance Limits	:	Average bursting strength of 7.4 - 7.0 kg/ cm ² is acceptable with proportionate Penalty imposition.
Rejection conditions	:	1. If not confirming to the specifications or 2. Bursting strength is 6.90kg/ cm ² below (or) 3. Abnormal over weight with Wet/moisture trace improper (or) pasting between plies, dull/not uniform color printing, deviation in dimensions,

rusty metal pins and improper stabling etc.

Requirement : Refer Document

No. of samples required : Refer document

22. ANHYDROUS AMMONIA GAS IN 50 KG CYLINDERS

Details	Specification
Requirement	Refer document
Packing	Refer document

