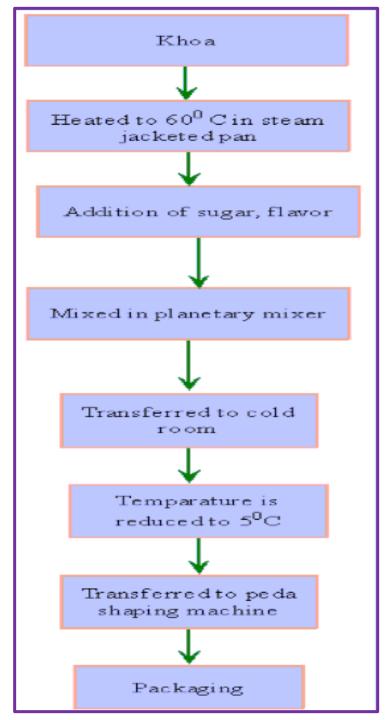




- Since peda contains sugar and lower moisture content it has a better keeping quality than khoa.
 - Popular and common variety: Doodh peda
 - Characterized as a circular slightly flattened ball with low moisture content and white to creamy white in colour and smooth texture.

Offered as "Prasad" during worship of God in the temples Time of ceremonial celebration like marriages, birthday



Chemical Constituents	Percentage
Moisture	13.5
Fat	20.0
Protein	19.5
Lactose	16.3
Sucrose	31.8

Preparation of peda from khoa

Dharwad peda

From *Dharwad* region of Karnataka State.

In traditional process, khoa is fried in ghee and mixed with sugar.

Brown coloured product with sugar crystals seen on surface.

Longer shelf-life than *doodh peda* owing to low moisture content and high sugar content coupled with ghee frying.

Thirattupal

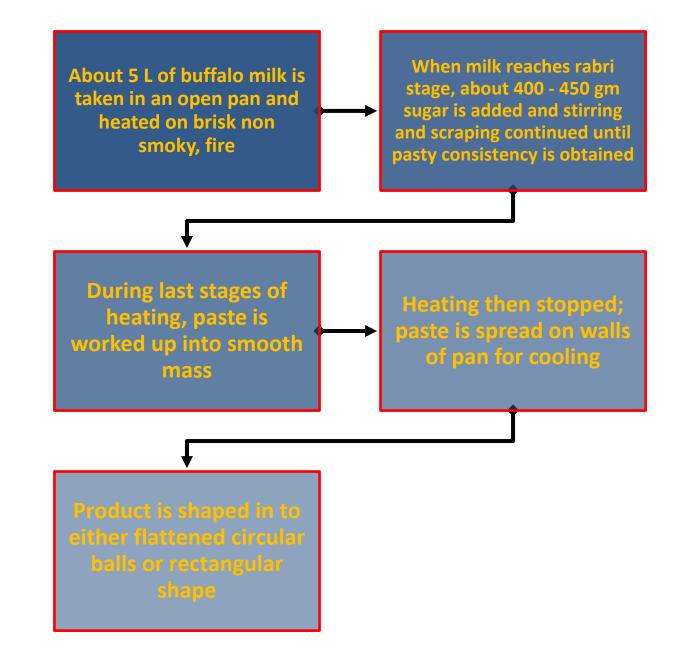
Popular in Tamil Nadu and Kerala
Characterized by coarse granular
texture

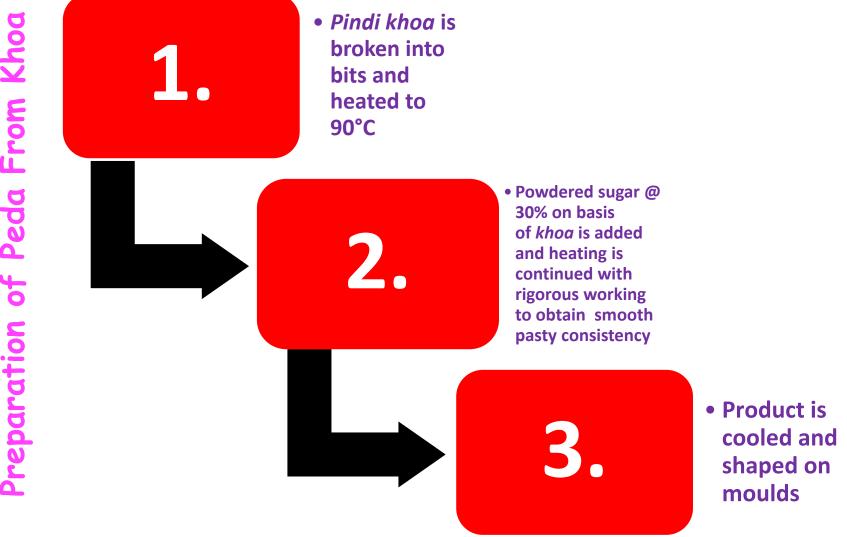
Slightly sour milk or small quantity of curd is added to hot milk during preparation to get granular texture.

Lal peda

Highly browned Intense cooked flavour

Lot of free fat is prepared in some parts of Eastern Uttar Pradesh with cardamom flavour





Chemical Quality of Peda

Type and quality of milk

Quality of *khoa* if used

Amount of sugar added

Method of production

Optional ingredients and flavors added

Storage condition



Packaging of Peda:

- Peda is generally packed in paper board containers lined with parchment paper or grease proof paper.
- Plastic trays, tubs can be used to pack peda to enhance its marketability.
- Peda packed either in polythene bags or parchment paper lined paper board boxes can keep well for 7 days at room temperature and 30 days at refrigeration temperature.

Use of laminates with oxygen scavenger property is also

advocated.



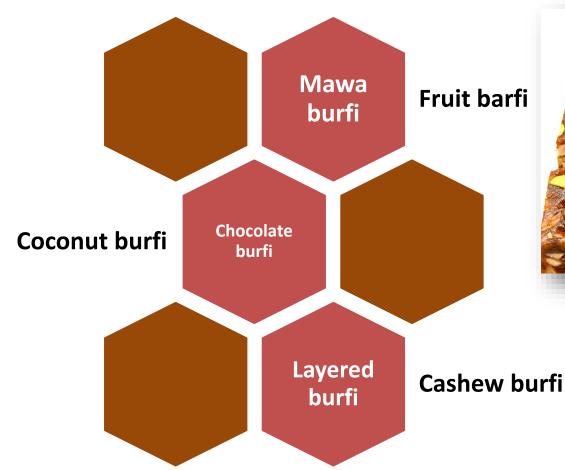


Shelf-life of peda:

- Keeps well for 5-7 days at room temperature.
- Peda packed in multilayer transparent laminate pouches under modified atmospheric packing of Nitrogen and CO₂ had a shelf life of 15 days at room temperature and 30 days at 20°C.
- Peda samples packed in pouches with oxygen scavenger exhibited a shelf life of 2 months at 37°C and 6 months at 20°C.



- Burfi is one of the most popular khoa based indigenous sweets.
- White to light cream in colour with firm body and smooth texture with very fine grains.
- Sugar is added in different proportions and other ingredients incorporated according to demand of consumers.
- Varieties of burfi sold in market viz. plain, nut (kaju, pista), chocolate, coconut and rava burfi.
- Large variations in market samples is due to non existence of legal standards.





Dry fruits burfi



Mawa burfi

Chocolate nut burfi



Layered burfi

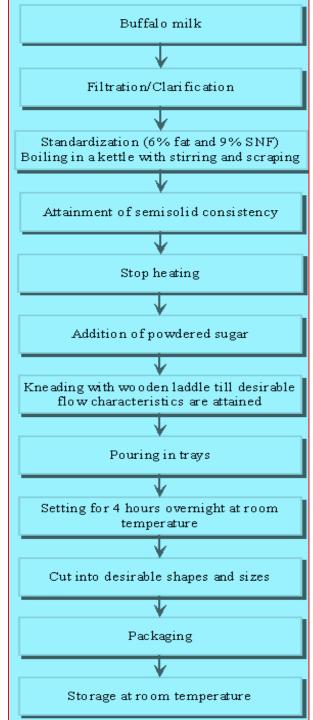






Methods of Preparation:

- Buffalo milk is preferred, should not have objectionable flavours and titratable acidity should not be >0.16 %.
- Milk is filtered before use to remove visible objectionable foreign matter.
- Standardized buffalo milk with 6% fat and 9% SNF in quantities of 4-5 I per batch is taken in a double jacketed stainless steel kettle and heated.
- Milk is boiled continuously with constant stirring and scraping so as to avoid burning of solids on surface of kettle.
- When semisolid consistency is attained, heating is discontinued.
- Powdered sugar @ 30% on the basis of khoa is added and blended thoroughly into khoa with the help of a flattened wooden ladle.
- When homogeneous mass with desirable flow characteristics is achieved, blend is transferred to greased trays.
- Product is allowed to set for minimum of 4 hr.
- Cut into desirable shapes and sizes with a knife and packed burfi is stored at room temperature.



Preparation of burfi from pre-made khoa:

- Burfi can also be prepared from pre made khoa obtained from market.
- Hot sugar syrup is prepared from 300 gm sugar by adding minimum quantity of water.
- Hot sugar syrup is added to 1 kg khoa and heated to 80°C.
- Mixture is kneaded properly and when desirable flow characteristics are attained, it is poured in trays and allowed to set at room temperature.

Manufacture of burfi from concentrated milk:

- Acceptable quality burfi can be prepared from concentrated milk.
- Concentrated milk with 35% total solids is taken and heated in a kettle.
- When a semisolid consistency is reached, ground sugar @ 30 percent on khoa weight basis is added and kneaded.
- When desirable flow characteristics are seen in the product, the mix is emptied into trays and set-aside.

Preparation of burfi from cream and skim milk powder:

- Cream with 30% fat and skimmed milk powder are mixed in 1:2 ratio.
- Mixture is heated to 92°C and heating is continued till 75% total solids are attained in product.
- Heating is then stopped; ground sugar is added at 50°C and kneaded.
- Then mixture is poured in to trays for setting.

Mechanized production of burfi:

- Successfully developed by NDDB.
- All ingredients, like khoa, sugar, cardamom, etc, are first heat processed to blend uniformly in a planetary mixer.
- Processed ingredients are then fed to a Rheon-shaping and forming machine.
 A die is placed at the end of the encrusting.
- Machine gives shape to the burfi emerging out from the machine in a continuous uninterrupted flow and then packed.

BIS specifications

Characteristics	Mawa <i>Burfi</i>	Other <i>Burfi</i>	
Moisture % by wt max	15.0	15.0	
Milk fat % by wt min.	12.5	10.0	
Lactose % by wt min	15.0	12.0	
Sucrose % by wt max	48.0	40.0	
Acidity % as Lactic Acid max	0.35	0.45	
Standard plate count /gm max	30,000	30,000	
Yeast & moulds count/ gm max	10	10	

Chemical composition depends upon quality and composition of milk, amount of sugar and other ingredients and extent of desiccation. Average chemical composition of a good quality burfi prepared from buffalo milk (6% fat & 90% SNF)

Characteristic	Percentage		
Moisture	15		
Fat	20.50		
Protein	16.12		
Lactose	15.83		
Sucrose	30.10		
Ash	2.45		

Shelf life of Burfi:

- Low moisture content and presence of sugar keeps burfi well for fairly long periods.
- Shelf life of burfi packed in parchment paper is 15 days at 30°C and 50 days at 5°C.

Low moisture content:

Burfi with very low moisture could be stored for 6 months but lower moisture content renders burfi hard, dry, chewy and unacceptable for consumer

Addition of antioxidants:

Burfi samples treated with propyl gallate and dodecyl gallate and stored at 25°C kept well for 12 months.

Packaging in tins:

Burfi packed in tins and stored at 30°C ±10°C was good for 150 days.

Hot filling:

Filling burfi into tins while hot was suggested to prevent growth of molds and off-flavour development during storage of one year.

Use of antifungal agents:

Incorporation of 0.15% sorbic acid in burfi and packaging in polyethylene pouches enhance shelf life of burfi up to 90 days.

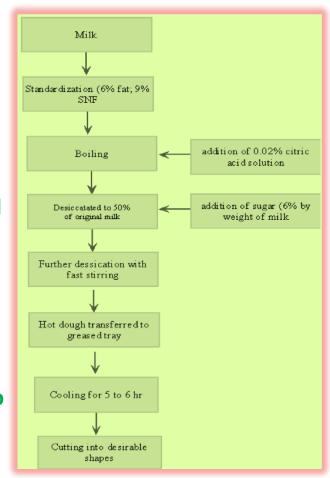
- Milk Cake is a khoa based sweet prepared from either buffalo milk or from danedar variety of khoa.
- Milk cake differs from kalakand for its higher content of sugar, lower moisture content and slightly more sticky and chewy grains.
 - Milk cake has two distinct layers i.e. central dark brown colored caramelized centre covered by light colored product on entire surface.

Kalakand is characterized by uniform whitish to light brown colour throughout the mass.



Methods of Preparation (Milk Cake):

- Whole buffalo milk is boiled in an open pan.
- When comes to first boil, 0.05% citric acid on milk basis is added as 1% solution.
- After addition of citric acid solution, small tiny granules tend to appear in milk.
- Heating is continued further with rigorous stirring. When mass shows signs of leaving surface of pan, sugar @ 50% of expected khoa yield 12.5% on basis of milk is added and mix is heated with rigorous stirring.
- Controlled heating is required to get better quality product.
- When product shows signs of dry appearance, mix is poured in deep metal moulds while hot.
- Milk cake is allowed to cool slowly at room temperature so that central portion of pat turns brown and caramelized flavour develops due to residual heat.
- After cooling, product is cut into desirable sizes.
- Vessel containing hot mass is placed in a container with water so that surface of milk cake cools fast giving white appearance outside and brown coloration in central core.



Packaging of Milk Cake

Pieces of milk cake are generally packed in vegetable parchment lined paper board boxes. Individual pieces are packed in LDPE pouches.

Shelf Life

Since milk cake contains higher amount of sugar and lower moisture content, it has longer shelf life than kalakand. Milk cake will have 15-20 days shelf life at room temperature.

Product	Total Solids %	Fat %	Protein %	Lactose %	Sucrose %	Ash %
Milk Cake	84.17	21.32	11.38	7.67	40.46	2.29