



**YSM Dairy &  
Biotech Pvt. Ltd.**

[www.ysmgroup.in](http://www.ysmgroup.in)

# About us

Processing Masterminds Providing Top Notch Services To Our Invaluable Clients For More Than 8 Years.

We are emerging engineering company with an extensive range of dedicated manufacturing, designing, consultancy and exporting services in the Dairy, Fruit juice/powder, Food processing, Herbal and Biotech Extraction sector plants on the turn-key basis. Our vision is to establish a long-term relationship with our clients by providing them supreme quality services within well defined time constraints.

We provide customized turn key projects and solutions for following sectors

## **Dairy Sector:**

- Indigenous milk product plants ranging from Flavored Milk, Sterilized Milk, Polypacked Milk, Lassi, Buttermilk, Curd, Cheese, Ghee, and Khoa.
- UHT Milk and Aseptic Packing
- Ice Cream Plants
- Cheese Plants
- Milk Powder plants (SMP/WMP/Dairy Whitener)
- Malted Milk Food Plants
- Casein, Lactose and Whey processing plants
- Micro-Filter plants, Nano-Filter plants, Ultra-Filter plants, Ion Exchange Units,

## **Food Sector:**

- Modified Starch Plants (It processes Broken Rice and Corn into Glucose, Maltodextrin and Gluten.)
- Malt Extract Plants.
- Pectin Plants

## **Fruit Sector:**

- Tomato Juice/ Powder Plants.
- Fruit Juice/Powder Plants.
- Chicory/coffee Plants (Extraction, Concentration and Powdering)

## **Biotech Sector:**

- Herbal extraction plants

## **Miscellaneous:**

Bottle Sterilizer, Road Milk Tanker, Bulk Milk Cooler,  
Storage Tank/Silo, Butter Churn, Butter Packing Machine

All Kind of Equipment for Dairy, Food, Beverages, Herbal, Biotechnology & Industrial Effluents



# FALLING FILM EVAPORATORS

In these evaporators, liquid and vapor flow downwards in parallel. An even thin film enters the heating tube via a distribution device in the head of the evaporator, flows downward at the boiling temperature and is partially evaporated.

Salient features

- Liquid distribution through the distributor plates placed at the top of calandria.
- Thinner film formation through the tubes
- Lesser product contact duration
- Easy and flexible processing
- Prime and hygienic product Quality
- Energy efficient

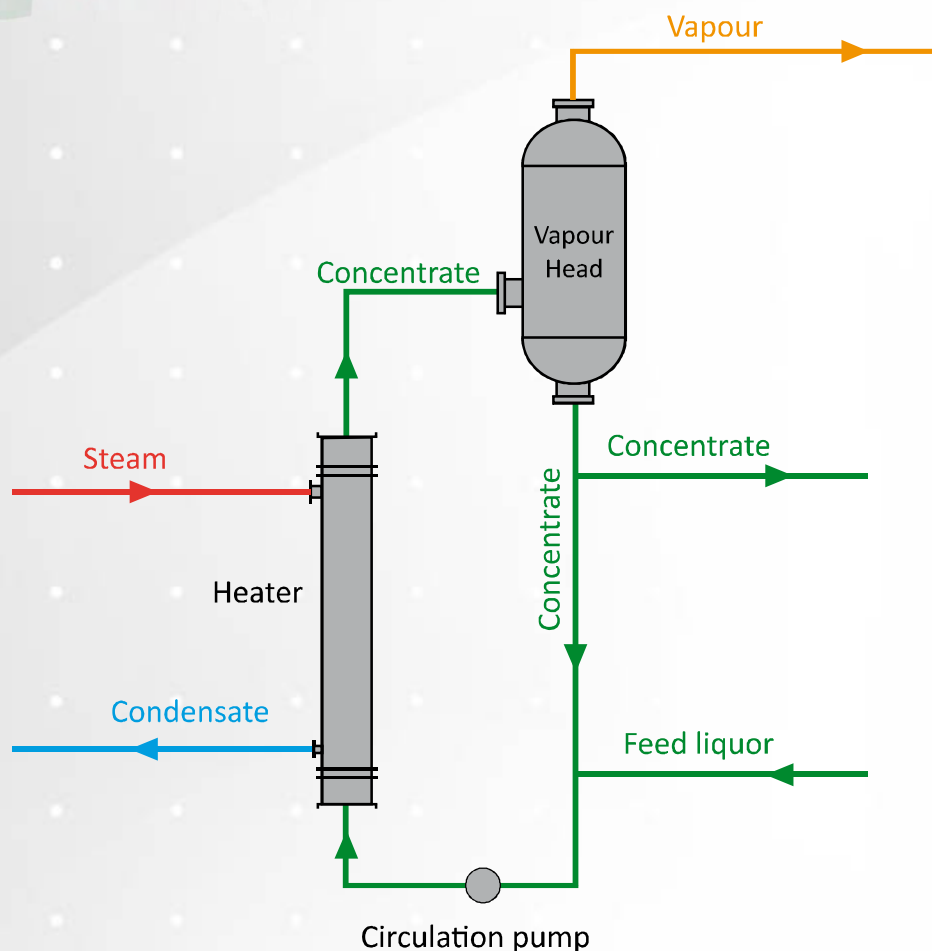


# FORCED RECIRCULATION EVAPORATORS

In a forced recirculation evaporator feed is pumped from the bottom of the tubes of the heat exchanger and is circulated through the tubes at high pressure by means of a pump

## Salient features:

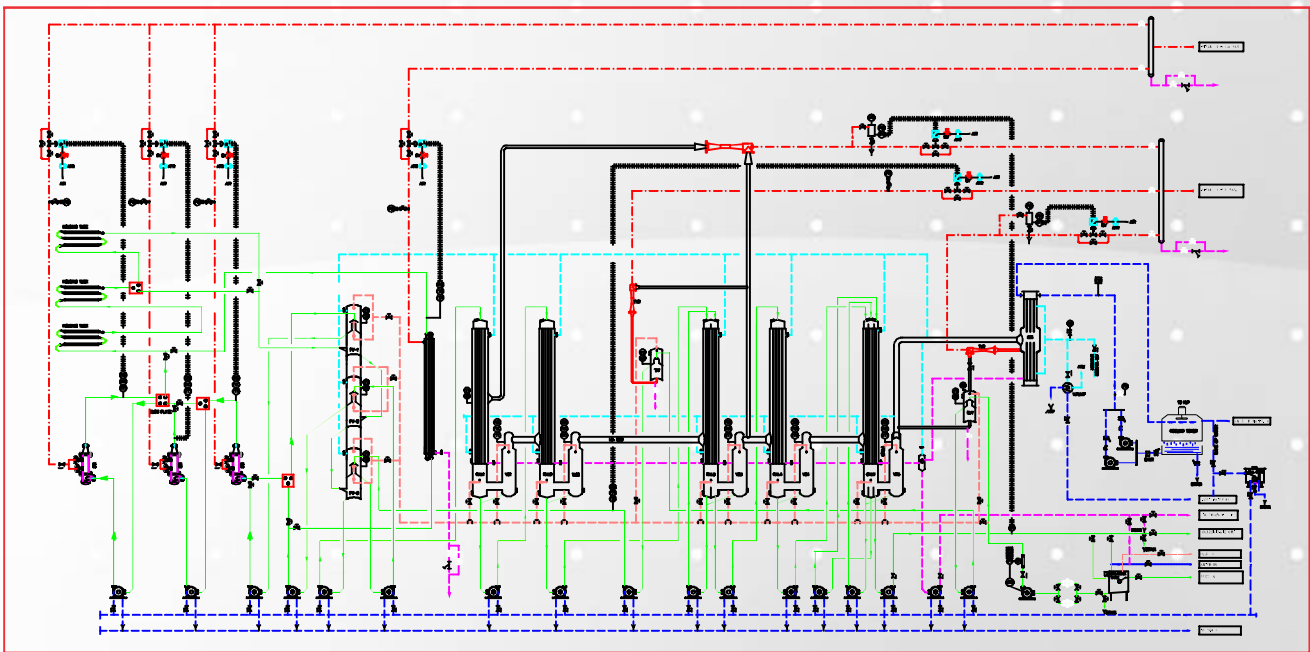
- Can be used for viscous products up to 50000 cp
- Significantly reduce fouling
- Both capital and operating costs are high
- High heat transfer efficiency
- Requires large circulating pumps
- High coefficients are obtained.
- Due to higher flash velocity, impingement deflector/baffles are important to minimize entrainment.
- The concentration level can be achieved up to 65% TS.



# MULTIPLE EFFECT EVAPORATORS

The Multi Effect Evaporators are designed to economize the consumption of energy.

The multiple-effect configuration combines two or more evaporator bodies to conserve steam, which is condensed in the first-effect heat exchanger only. Water evaporated in the first-effect vapor body is condensed in the second-effect heat exchanger, which provides energy for evaporation in the second-effect vapor body (and so on for additional effects). Vapor from the last effect flows to a condenser.



## BATCH/PAN TYPE EVAPORATORS

In this Evaporator the product is heated in a steam jacketed vessel under reduced pressure.

### Salient features:

- The product is heated in a steam jacketed spherical vessel.
- Small heat transfer area per unit volume.
- The residence time of the product is high



# THIN/WIPED FILM EVAPORATORS

In these evaporators, the product comes into contact with the rotor. It is uniformly spread on the periphery by the distribution ring, then picked up by the first rotor blades and immediately formed into a film (0.5-0.3mm) on heat transfer surface.

- At high temperature, the heating medium is generally necessary to obtain a reasonable evaporation rate since the HTA available is relatively small as a direct result of cylindrical configuration.
- The feed is introduced at the top of the evaporator and is spread by wiper blades on the vertical cylindrical surface inside the heating unit.
- Evaporation of the solvent takes place as the thin film moves down the evaporator wall.

## DRYERS

We offer cost-effective industrial dryers for Dairy, Food and Pharmaceutical industries as per specific client requirements

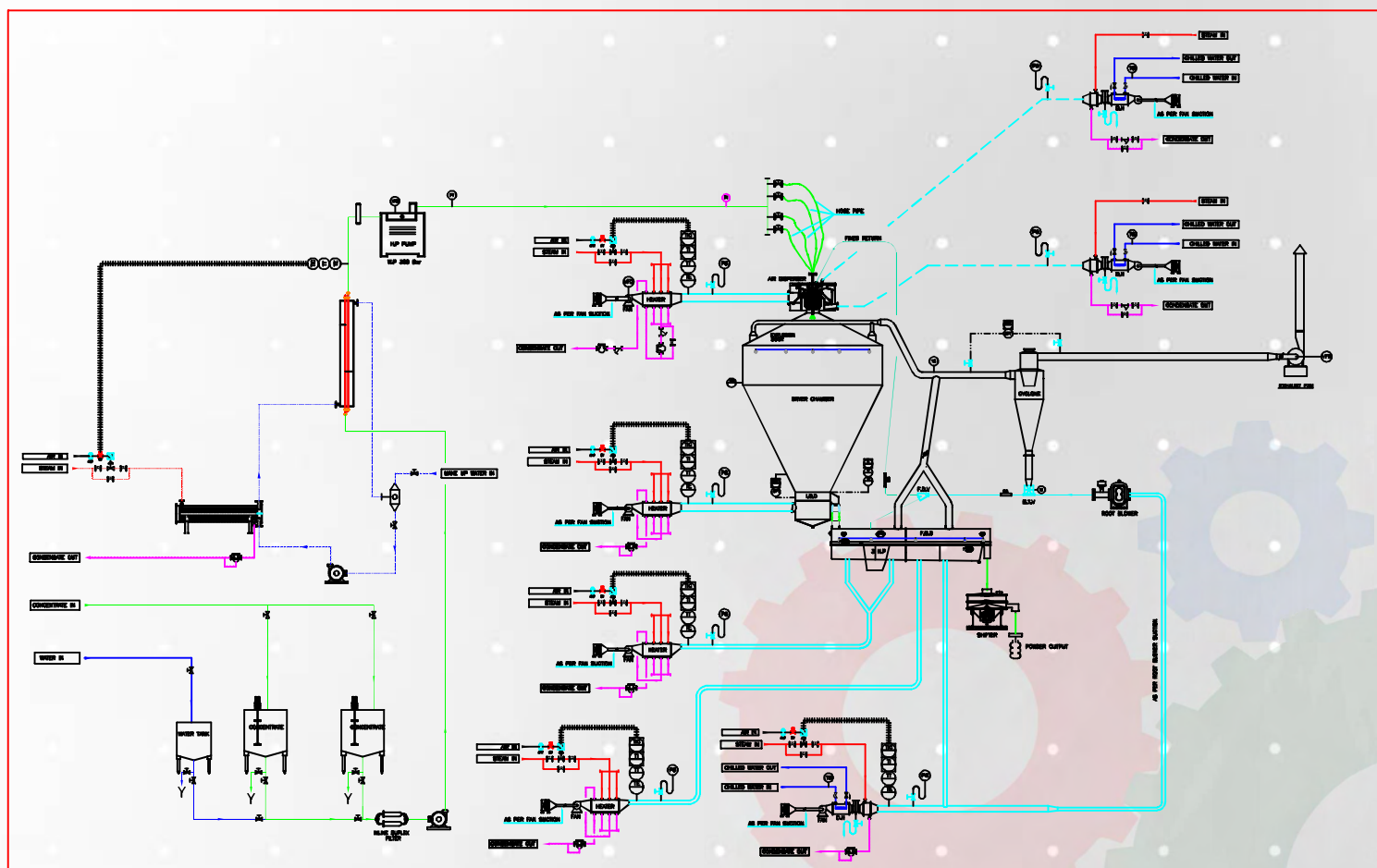
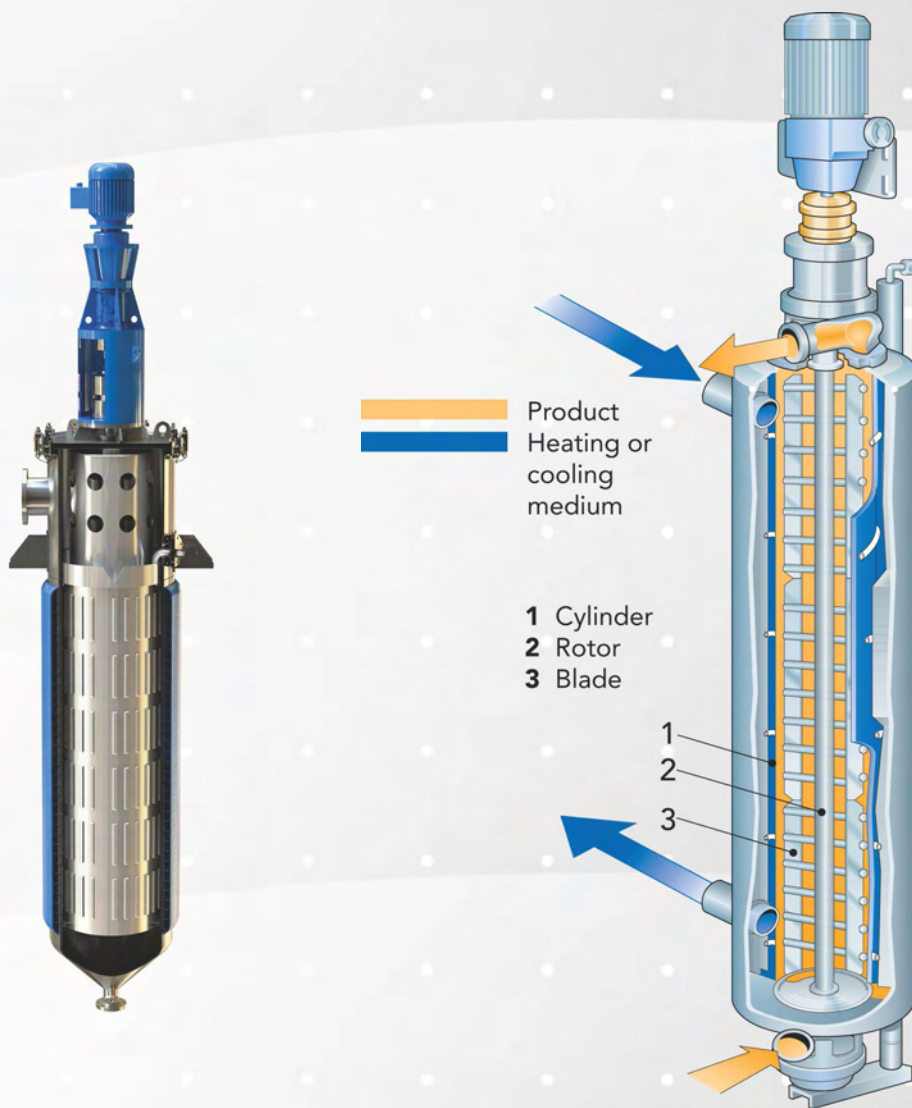
### SPRAY DRYERS

Spray drying is the commonly used industrial process of drying. This process involves the conversion of fluid into fine droplets either by nozzle atomization or by rotary disk atomization and then exposing them to a hot drying media to achieve defined dry particulate matter. The heating media is hot air, heated by the steam radiator.

Ideally suitable for:

- Heat sensitive products
- Non-sticky powder requirements
- Free-flowing powder requirements from the extremely sticky slurry
- bulk production of powders
- Granulated powdered products from slurry/slip



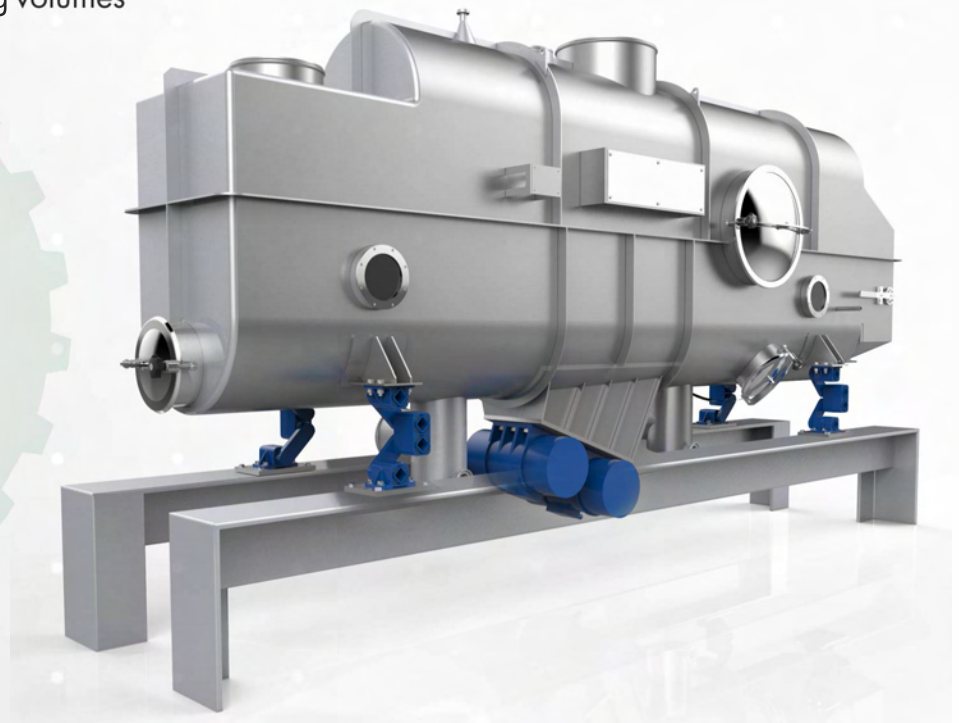


## FLUID BED DRYERS

Fluid bed dryer comprises a top fluidizing chamber and a bottom air distribution chamber separated by the specially designed perforated plate.

Ideally suitable for:

- Drying humidity block or power raw material in the pharmaceutical, foodstuff, feed, chemical industries etc.
- Semi-liquid materials, large granules, small blocks and adhesive materials.
- Drying of materials with varying volumes

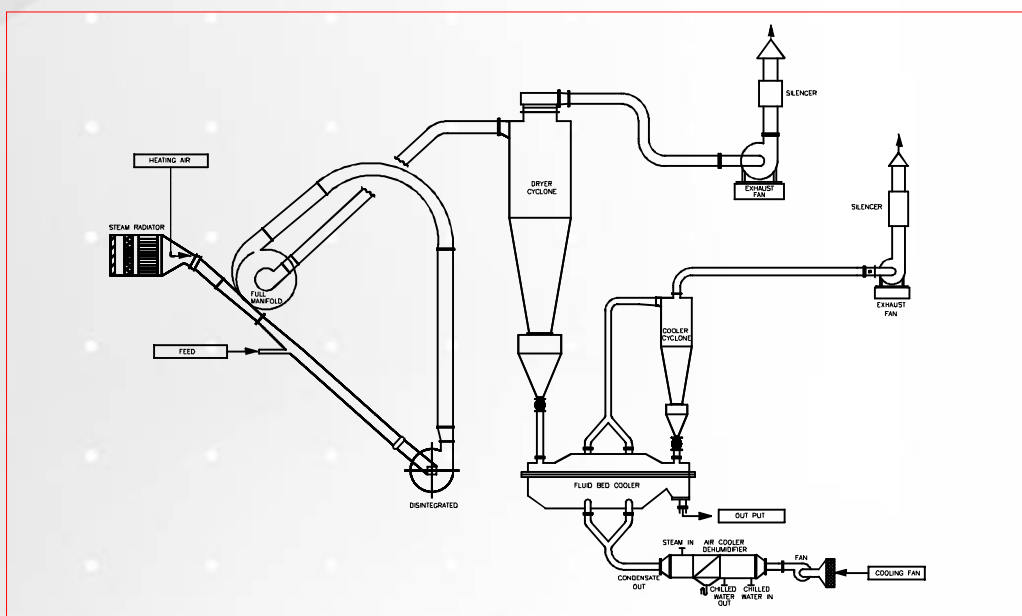


## RING/FLASH DRYERS

It incorporates an internal airborne recycle for greatly improved operation and efficiency. A special centrifugal classifier designed to separate dry and fine particles while holding moist and large particles in prolonged circulation.

Ideally suitable for:

- Energy efficient drying process.





## VACUUM BAND DRYER

It consists of a vacuum chamber in which conveyor band of food grade quality is arranged. The band passes over the hot plates heated internally by steam or hot water. Feed product spreads on the moving band and dries as it moves towards the hot places. The dried product is obtained at the other end.

Ideally suitable for:

• Drying heat sensitive materials that can decompose or deteriorate at high temperatures



## AGITATED THIN FILM DRYERS

Agitated thin film dryers are used for continuous drying of heat sensitive products with total solvent recovery. Agitated thin film dryer (ATFD) is the final stage equipment in zero liquid discharge plants.

Ideally suitable for:

• Drying Malt, pharmaceuticals, bulk drugs and intermediates, organic and inorganic salts



## VACUUM TRAY DRYERS

Vacuum Tray Dryer is used mainly for drying of high grade, temperature and oxygen sensitive products. Vacuum Tray Dryer is highly suitable for drying hygroscopic substances, which are dried to very low residual moisture, content level.

## CASEIN AND WHEY PROCESSING PLANTS



## INLAND VALUABLE CLIENT:

M/s Bholebaba Milk foods Ltd.  
Project: Crystallizer and Tanks

M/s Ganga Dairy  
Project: Drying Plant for Chicory Powder

M/s Landmark Dairy, Haryana  
Project: Milk Processing Plant

M/s Sharda Dairy & Food Product (P) Ltd. Chhattisgarh  
Project: Milk processing Plant with Evaporator & Dryer

M/s Tasty Dairy Specialties Limited  
Project: Continuous Butter Making Machine (CBM),  
Evaporator, Dryer

M/s V.R.S. FOODS LTD., Sahibabad  
Project: Casein Plant

M/s Shreedhar Milk Foods Limited  
Project: Complete project of 15 ton/day powder plant

M/s Imperial Malt Ltd. Gurgaon, Haryana  
Project: Complete Plant for Malted Milk Food

M/s Deen Dayal Foods, Gwalior  
Project: Powder Plant of capacity 15 Ton/day

M/s Cepham Specialities Ltd., Punjab  
Project: Casein Plant

M/s Thakkar Dairy Products Pvt. Ltd.  
Projects: Milk Processing Plant

M/s Shiv Prasad Dairy, Maharashtra  
Project: Erection and Commissioning of Drying Plant

M/s Jupiter Foods (I) Pvt. Ltd.  
Project: Chicory Powder

M/s SKM Manutech Pvt. Ltd.  
Project: Juice Plant

M/s Best Milk Food Pvt. Ltd.  
Project: Lecithinization System

M/s Takshil Dairy Products  
Project: Three Effects Falling Film Evaporating Plant

M/s Goodrich Carbohydrate Ltd.  
Project: Powder Plant

M/s Delight Dairy  
Project: Double effects Falling Film Evaporating Plant

M/s ITC Limited  
Project: Butter and Ghee Equipment

M/s Sunfresh Agro Industries Pvt. Ltd.  
Project: Spray Dryer of capacity 40 ton/day milk  
powder production.

M/s Pashupati Dairy  
Project: Modification of Evaporating and Drying Plant

M/s Adinath Dairy  
Project: Installation of Powder Plant of Capacity 20  
Ton/Day

M/s Gopaljee Dairy  
Project: Double and Triple Circuit PLC Based CIP Unit

and Piping work of complete Milk Processing Plant

M/s Mother's Pride Dairy India Limited.  
Project: Flavoured Milk, Fruit Yoghurt and Greek Yoghurt.

M/s Sunrise Milk Foods LLP  
Project: Milk Processing Plant

M/s Sus Agro Foods India Pvt. Ltd. Kathua (J&K)  
Project: Malt Processing Plant including Vacuum Band  
Dryer.

M/s Delecto Foods Pvt. Ltd. Secunderabad  
Project: ETP Plant, Evaporator and Agitated Thin Film  
Dryer

M/s Vee Natural, Chhindwara  
Project: Three Stage Spray Dryer for Herbal Plant

M/s JMB Industries , Haryana  
Project: Three Effects Evaporator for Katha Plant.

M/s Dinshaw's Dairy Foods Pvt. Ltd. Nagpur  
Project: Vacreator, Curd Pasteurizer, Tanks

M/s Cifal Herbal Private Ltd.  
Project: Distillation Unit

## GLOBAL VALUABLE CLIENT:

M/s Abraj Al Sammak General Trading and Contracting  
Compact, Iraq  
Project: Milk Evaporating Plant

M/s Anglo Foods Ltd., Pakistan  
Project: Continuous Butter Making Machine and butter  
Melting system.

M/s Fariand Sazan Novin Co. Iran  
Project: Milk Evaporating Plant

M/s HS Dairy and Agriculture, Uganda  
Project: Milk Processing Plant

M/s Amos Dairies Limited, Uganda  
Project: Milk Evaporating Plant

M/s Pearl Dairy Farms Ltd., Uganda  
Project: 10 kl Milk Pasteurizer, Modification of Dryer

M/s Sabah Dairy, Iran  
Project: Modification of Evaporating Plant

M/s Olam Ivoire Sarl  
Project: Export of Spares Parts of Fork Lift

M/s Sujal Foods Pvt. Ltd., Nepal  
Project: Consultancy for product development & supplied  
dairy equipments for Butter Ghee & Ice Cream

M/s PRAN-Dairy Limited. Bangladesh  
Project: Milk Powder Blending and Shifting System.

M/s Dairy Development Corporation, Nepal  
Project: Expansion of Powder Plant from 3 Ton/Day to 6  
Ton/Day Powder Production





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