

## Improve profitability & become efficient

Replace the existing diesel generator of your Bulk Milk Chiller with Promethean's TSS (Thermal Storage System) that chills milk even when there is no power during milk collection.

By eliminating DG set, the Promethean Milk Chilling solution provides the current BMCs a most cost effective way to operate and chill milk in villages where grid power is erratic.

This also makes the Collection Centre operations simpler due to lower maintenance and no hassle of diesel procurement.



DG replaced  
by TSS



### Thermal Storage System (TSS)

It is an energy storage technology which provides cold energy for all of Promethean's refrigeration products:

- Backup cooling power - for areas with unreliable grid power
- Instant cooling power - for rapid cooling of fruits, vegetables, milk and other perishable food products
- Load shifting - from day-time to night-time to reduce energy bills

*Eliminate Diesel : Reduce Maintenance : Ease Operation*

**A site visit is mandatory to check compatibility of current BMC**

## Thermal Storage System



Back-Up Capacity per TSS – with 1 full recharge	500 Litres
Time to Recharge	4 - 5 Hours
Dimensions	1.2 X 1.2 Metres

## Accessories and other fittings



Pumps to circulate coolant
Connectors, Clamps and Fittings
Plate Heat Exchanger to chill coolant of TSS

## Control Unit, Inverter & batteries



Monitor the entire system
Display temperature of stored milk
Auto switch on/off with temperature variations
Provide backup to run the coolant pump and control unit in absence of power grid

## Compressor - (If existing compressor is to be replaced)



Compressor Type	Copeland Scroll
Refrigerant	R-404 a
AC Power Supply	1ph or 3ph

## Rapid Milk chiller – Form 35°C to 4°C



Flow rate - for 4°C (Can be customised)	210 Ltrs / hr
Holding Funnel Capacity	60 Litres
Dimensions (L x B x H)	0.76 x 0.76 x 1.7 Meters

(OPTIONAL)

