

“Save Earth - Save Ecobalance”



82 % Green Belt

06 % Roads

06 % Solar

06 % Building

Coconut - 258 Guava - 361 Chikoo - 363 Mango - 271 Tamarind - 200 Neem - 50 Jamun - 334 Others - 1,163+

**Mr. Rajani Kumar. K V V S
Plant Manager**

**Mr. Venkat Reddy
Manager -Maintenance**

**Mr.Kiran kumar
Manager-Q&A**

DODLA8,500
Collection centresMilk procurement
1.57
Million
LPD600
Retail Parlours2,000
Distributors3,000+
Employees

About Dodla Dairy!

Dodla Dairy Limited is a public limited company having its registered and corporate office at Hyderabad City of Telangana State in India. The company was incorporated in the year 1995 and production commenced in 1998. Currently, our procurement spans 5 states and we delight our customers through our products across 11 states. We operate around 150 milk chilling centres and 14 processing plants. Of these plants, nine are ISO 22000:2018 certified, five are FSSC 22000 v5.1 certified and hold ISO 50001:2011 (EnMS) certification.

14
PlantsProcessing
capacity
2.2
Million
LPD1.4 Lakh
Farmers association150
Milk chilling units

- ✓ Our distribution and marketing operations include distributing our products through more than **75** sales offices, around **2500** agents and approximately **2000** distributors across **11** states in India.
- ✓ Apart from India **Dodla Dairy** has subsidiaries companies in **Singapore, Uganda and Kenya**.



- ✓ The **Gundrampally plant** is a fully automated facility that began operations in **December 2016**. It has an installed capacity of **350,000 liters** of milk per day and produces a variety of products, including curd, sterilized flavored milk, ghee, butter, paneer, and Doodh Peda. Production of these items started in February 2017.
- ✓ The plant features an advanced automated Cleaning in Place (CIP) system, which includes silos, road tankers, and all necessary equipment to ensure effective cleaning. Covering approximately 70 acres, it is the largest plant in Dodla, with 50 + acres dedicated to developing a green belt.
- ✓ The Gundrampally plant is committed to **environmental sustainability, operating as a zero-discharge facility** and using renewable energy for its operations.

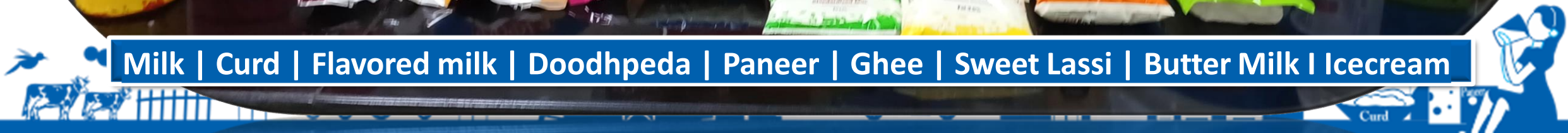


PRODUCT RANGE AT DODLA DAIRY.

DODLA



Milk | Curd | Flavored milk | Doodhpeda | Paneer | Ghee | Sweet Lassi | Butter Milk | Icecream





Dodla Dairy Gundrampally plant, follows a manufacturing value chain that emphasizes best practices to maximize capacity utilization, operating metrics, flexibility, agility, and continuous improvement of automation processes



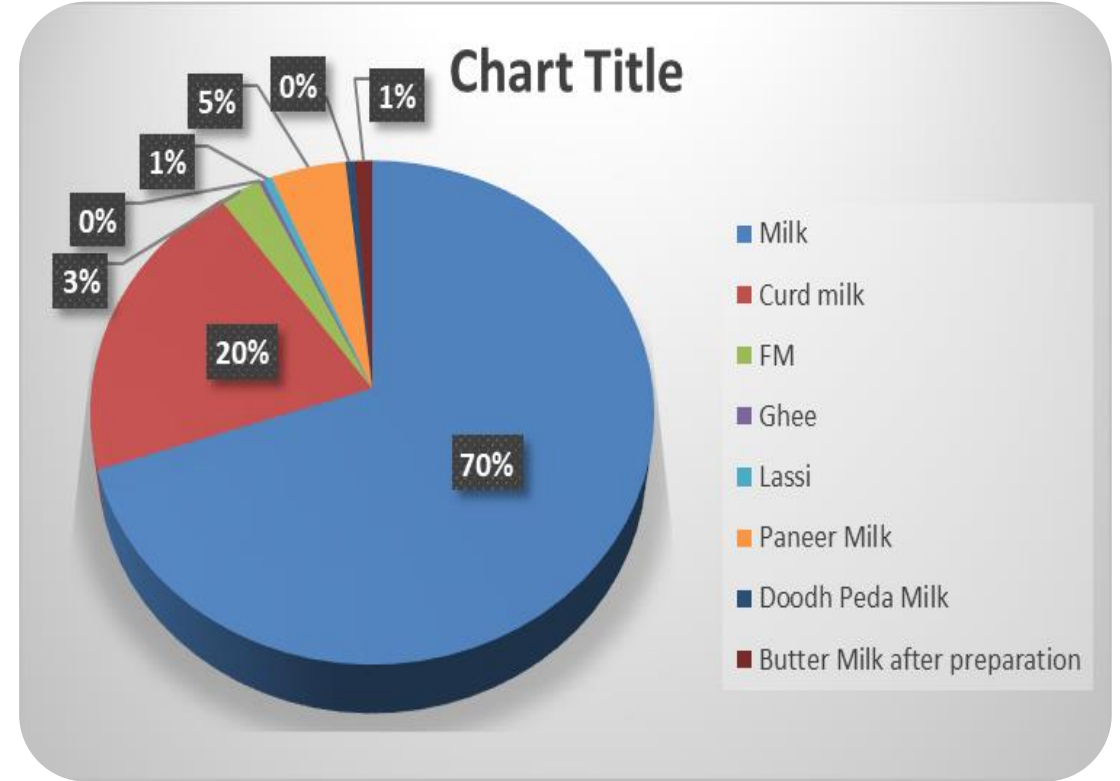
OVERALL ENERGY CONSUMPTION - OVERVIEW



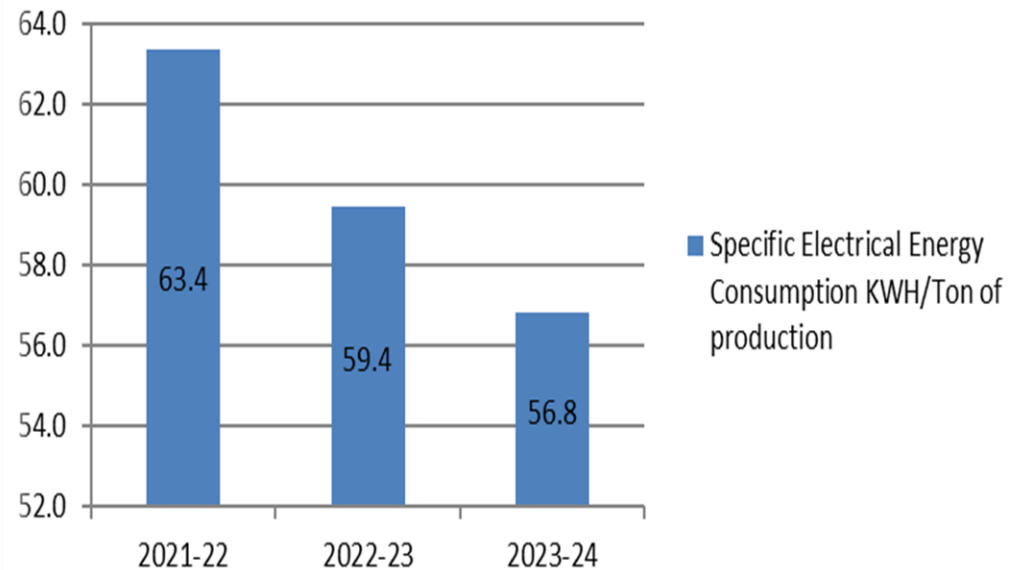
Parameters	Unite Of Measurements	2021-22	2022-23	2023-24
Annual Milk Handled	KL	56342	63009	69396
Annual Electrical Energy Consumption	Million KWH	3.572	3.745	3.942
Annual Cost Of Electricity Consumed	Million INR	28.3	34.5	35.52
Annual Thermal Energy Consumption	Million Kcal	10343	10821	11195
Annual Cost Thermal Energy Consumption	Million INR	10.879	12.063	12.480
Specific Electrical Energy Consumption	KWH/Ton of production	63.4	59.4	56.8
Specific Thermal Energy Consumption	Kcal/Ton of production	183577	171740	161321



DETAILS	MILK IN KL	%
Milk	48481	69.86
Curd milk	14053	20.25
FM	1832	2.64
Ghee	195	0.28
Lassi	390	0.56
Paneer Milk	3285	4.73
Doodhpeda Milk	380	0.55
Butter Milk after preparation	780	1.12



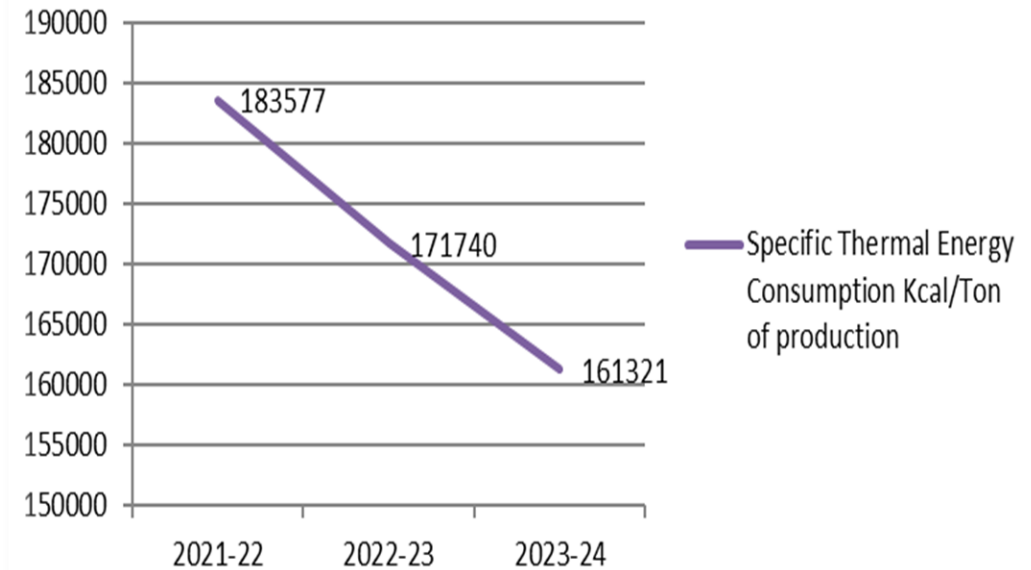
Specific Electrical Energy Consumption KWH/Ton of production



2022-23: - 6.2% decreased
2023-24: - 4.4% decreased

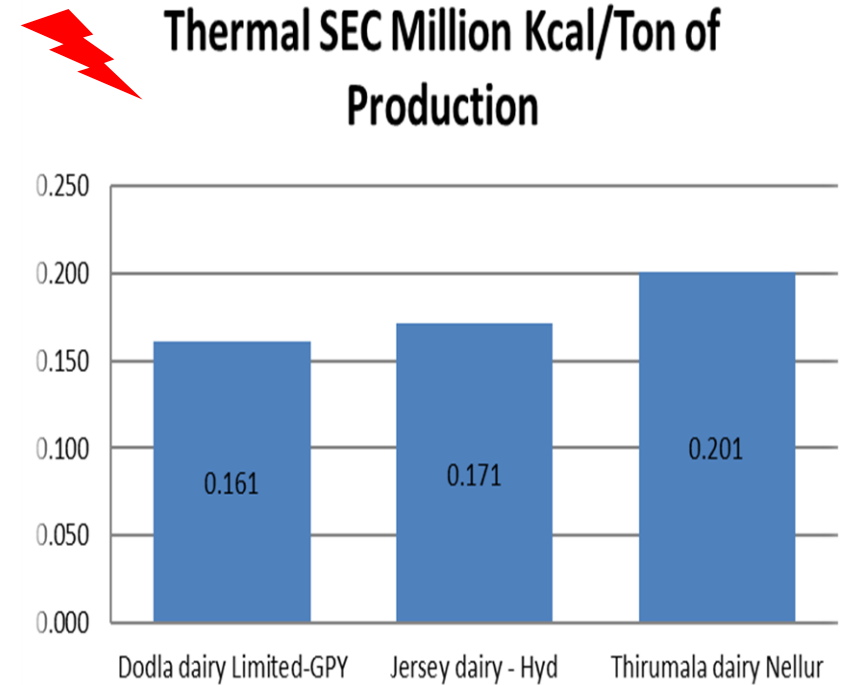
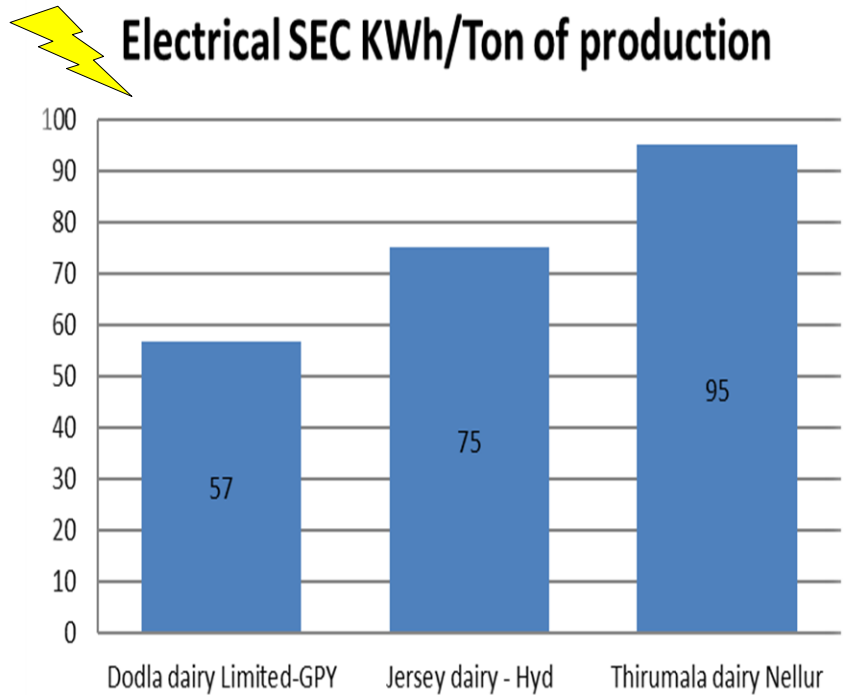


Specific Thermal Energy Consumption Kcal/Ton of production



2022-23: - 6.4% decreased
2023-24: - 6.1% decreased





Our Target is 50 Kwh/Ton & 0.140 Million Kcal Per Ton Of Production



ROAD MAP TO ACHIEVE TARGET FOR ENERGY EFFICIENCY



Year	Title of Projects	Annual Electrical Saving (Million kWh)	Annual Thermal Saving (Million Kcal)	Investment (Rs in Million)	Comments
2024 -25	0.5MW Solar plant	0.80	0	25	with 0.5MW Solar 50% EB units will be reduced
2024 -25	VFD's for all water pumps and compressors	0.146	0	1.60	VFD's for all water pumps and compressors
2024 -25	1500KVA energy efficient transformer	0.2628	0	4.50	Auto tapping transformer with energy efficient
2024 -25	IBT Chilled water motors replacing with IE4 energy efficiency motor (High pressure pumps)	0.07	0	0.5	plant chilled water pumps will be replaced with IE 4 energy efficiency motors
2024 -25	UGR motors 2nos to be replace with energy efficiency motors (from 10hp to 5hp)	0.03	0	0.12	energy efficiency motors for UGR pumps
2024 -25	Installation of Evasco condenser for Refrigeration	0.03	0	0.6	Evapco condenser instead of cooling tower
2024 -25	Stabilizer for Lighting load for load decreasing	0.02	0	0.035	separate stabilizer for lighting load
2024 -25	Solar water heaters planed for CIP water	0.00	977	2.5	For thermal savings
2024 -25	BLDC fans instead of all ceiling fans (15nos)	0.003	0	0.015	planned BLDC fans instead of regular ceiling fan
	Total	1.36	977.00	34.87	

Energy Saving projects implemented in last three years



Year	No of Energy saving projects	Electrical savings (kWh)	Thermal savings (Million Kcal)	investments (INR Million)	Total Savings (INR Million)	Payback period (in months)
2021-22	3	201800	0	1.2869	1.65	9.33
2022-23	11	104674	0.83	0.1916	1.69	1.36
2023-24	7	1728664	0.93	54.272	16.36	39.80
Total	21	2035138	1.76	55.7505	19.71	33.94



PROJECTS IMPLEMENTED IN 2021-22



Title of Projects	Year	Annual Electrical Saving (kWh)	Electrical Saving (kW)	Annual Electrical Cost Saving (Rs) Million	Quantity (Wood kg)	Unit of Measurement Kcal/Kg	Annual Thermal Cost Saving (Rs million)	Total Annual Savings (Rs million)	Investment Made (Rs million)	Pay back (Months)
Chilled water return PHE	2021-22	29103	29103	0.239	0	0	0	0.2386	0.95	47.77
ETP Air Blower system	2021-22	78840	78840	0.6465	0	0	0	0.6465	0.3219	5.98
KCX6 Compressor-1 , Pulley modification	2021-22	93857	93857	0.7696	0	0	0	0.7696	0.015	0.23



PROJECTS IMPLEMENTED IN 2022-23



Title Of Projects	Year	Annual Electrical Saving (Kwh)	Electrical Saving (Kw)	Annual Electrical Cost Saving (Rs Million)	Quantity (Woods Kgs)	Unit Of Measurement Kcal/Kg	Annual Thermal Cost Saving (Rs Million)	Total Annual Savings (Rs Million)	Investment Made (Rs Million)	Payback (Months)
KCX6 Compressor-2 , Pulley modification	2022-23	93857	93857	0.7696	0	0	0	0.7696	0.015	0.23
Air Compressor effective utilization	2022-23	34414	34414	0.2822	0	0	0	0.2822	0.1	4.25
Boiler condensate water recovery implemented from 55% to 75%	2022-23				81111	3000	0.2799	0.2799	0.03	1.29
VFD installed for Boiler ID & FD fan motors	2022-23	29200	29200	0.2394	0	0	0	0.2394	0.12	6.0
Auto matic ON-OFF timers provided for IBT Agitator motors	2022-23	35040	35040	0.2873	0	0	0	0.2873	0.0066	0.28
Motion Sensors provided for lights	2022-23	7738	7738	0.0635	0	0	0	0.0635	0.012	2.27
Crate washer -1 pump replaced	2022-23	9581	9581	0.0786	0	0	0	0.0786	0.005	0.76
Crate washer -2 pump replaced	2022-23	9581	9581	0.0786	0	0	0	0.0786	0.005	0.76
Automatic ON-OFF timers provided for all streetlight	2022-23	3679	3679.2	0.0302	0	0	0	0.0302	0.0015	0.597
ETP secondary clarifier motor timer provided (For Energy saving)	2022-23	9855	9855	0.0808	0	0	0	0.0808	0.0015	0.223
ETP Bio Gas (Methane gas) utilization system (saving converted to wood)	2022-23	0	0	0	241252	3000	0.8323	0.8323	0.04	0.58



Panner Plant capacity increased from 700LPH to 1200LPH with same energy usage



Desuperheater



IBT Chilled water Pump



Loading Dock



We set up a child water circulation system using plunger seals on homogenizers (All 3 homogenizers).



EFFICIENCY UTILIZATION ..Plant Process were changed with VDF Drives for energy saving



Plant motors were placed with variable frequency drives (VFDs) around 230 installed ie 80% of the plant motors were now running with VFDs. which helps in saving energy..

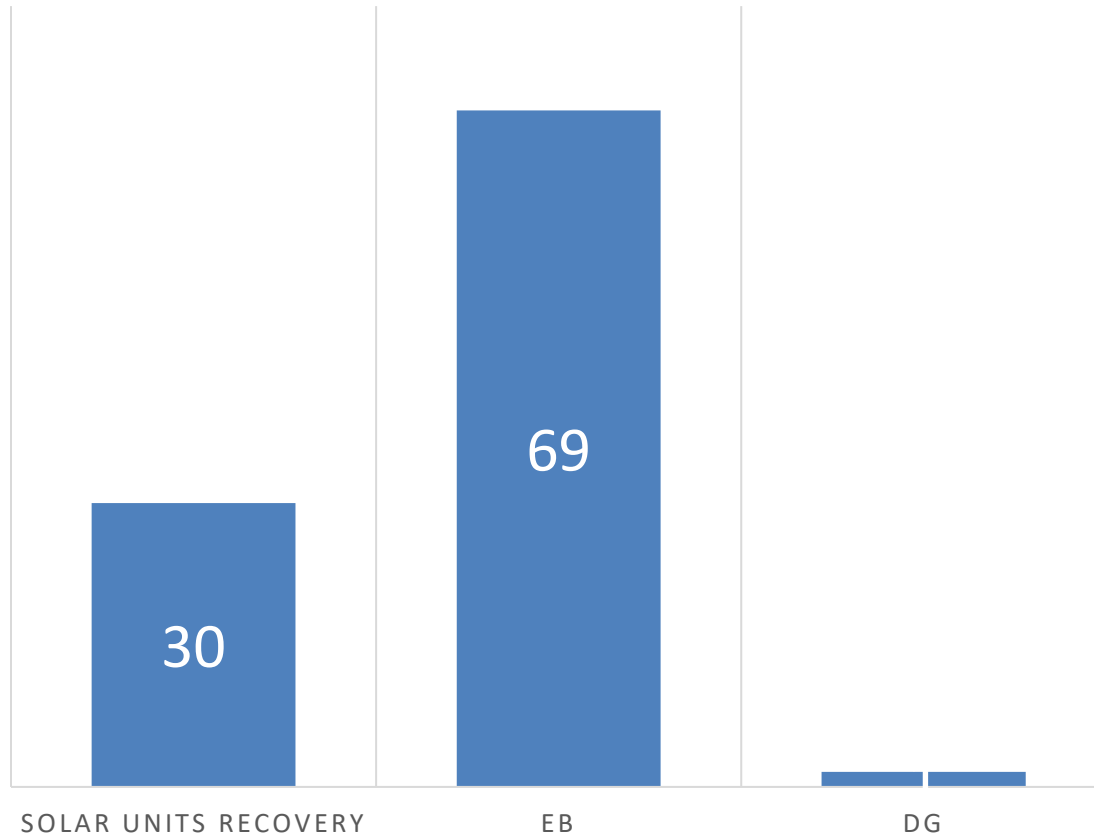


INNOVATIVE PROJECTS IMPLEMENTED with minimum Capital



Name of the Project	Brief description	implementing the project	Project category (A/B/C/D)	Replicability	Impact on Sec	Year of Implementation	Annual Savings (Rs. In lakhs)	Investment (Rs. In lakhs)
Solar - DG synchronization	We have 1MW new solar, it was not synchronization with DG . Since they were set due to separate inverters installed	We have added manually solar load to DG set , after taking 50% load of DG set and done synchronization	B	We can replicability across our plants	12168 Units	2023	2.8	0
Panner PHE capacity increase	Panner PHE is 700LPH and running with 100% utilization .as the production increased .	We have fabricated the one Tubular heater for hot water circulation system in house fabrication	B	We can replicability across our plants	Time and efficiency increase	2023	2	0.08
Homogenizers Plunger cooling system	Homogenizer seals frequently damages during heat production .	We have arranged child water circulated system in Homogenizer plunger seals.	B	We can replicability across our plants	Spares were minimizes and also break downs	2023	1.6	0.06

SOLAR UTILIZATION



We have installed solar power 1.5 MW and generated / consumed the up to 30% load in plant electrical power consumption. we have generated solar power up to 40% in peak generation plant load.

Power utilization sources in plant



ON SITE RENEWABLE ENERGY

Sours	Year	Technology (Solar/Wind/Biomass Etc)	Installed Capacity (In MW)	Consumption (In Million Kwh)	% Of Overall Electrical Energy Consumption	Investment
Solar	2021-22	Solar	0.5mw	0.6964	16%	8 CR
Solar	2022-23	Solar	0.5 mw	0.6923	16%	
Solar	2023-24	Solar	1.5mw	1.7343	30%	

OFF SITE RENEWABLE ENERGY - Nil





Dodla Dairy has successfully installed solar power plant at Gundryampally plant, Hyderabad, currently meeting 40% of the facility's energy needs. The company plans to increase this share to 50% through renewable energy sources. By integrating solar power into its operations, Gundryampally plant is reducing its reliance on conventional energy, thereby minimizing carbon emissions and fostering a cleaner environment



Conserving Resources.
Preserving the Future.

WHAT DODLA DOES TO SAVE EARTH



- 
Rain Water Harvesting System In Place
- 
100% Utilization of ETP (Recycling) Water, GAS and Sludge
- 
Reduction Of Carbon Foot Print Taken Care
- 
Renewable Energy Being Used as Solar
- 
Social Forestry is Done In The Plant
- 
100% Recycling of Packaging Material Wastage
- 
Ecological Balance
- 
Zero Wastage to The Environment



HORTICULTURE FARMING.

DODLA



Social forestry in the plant

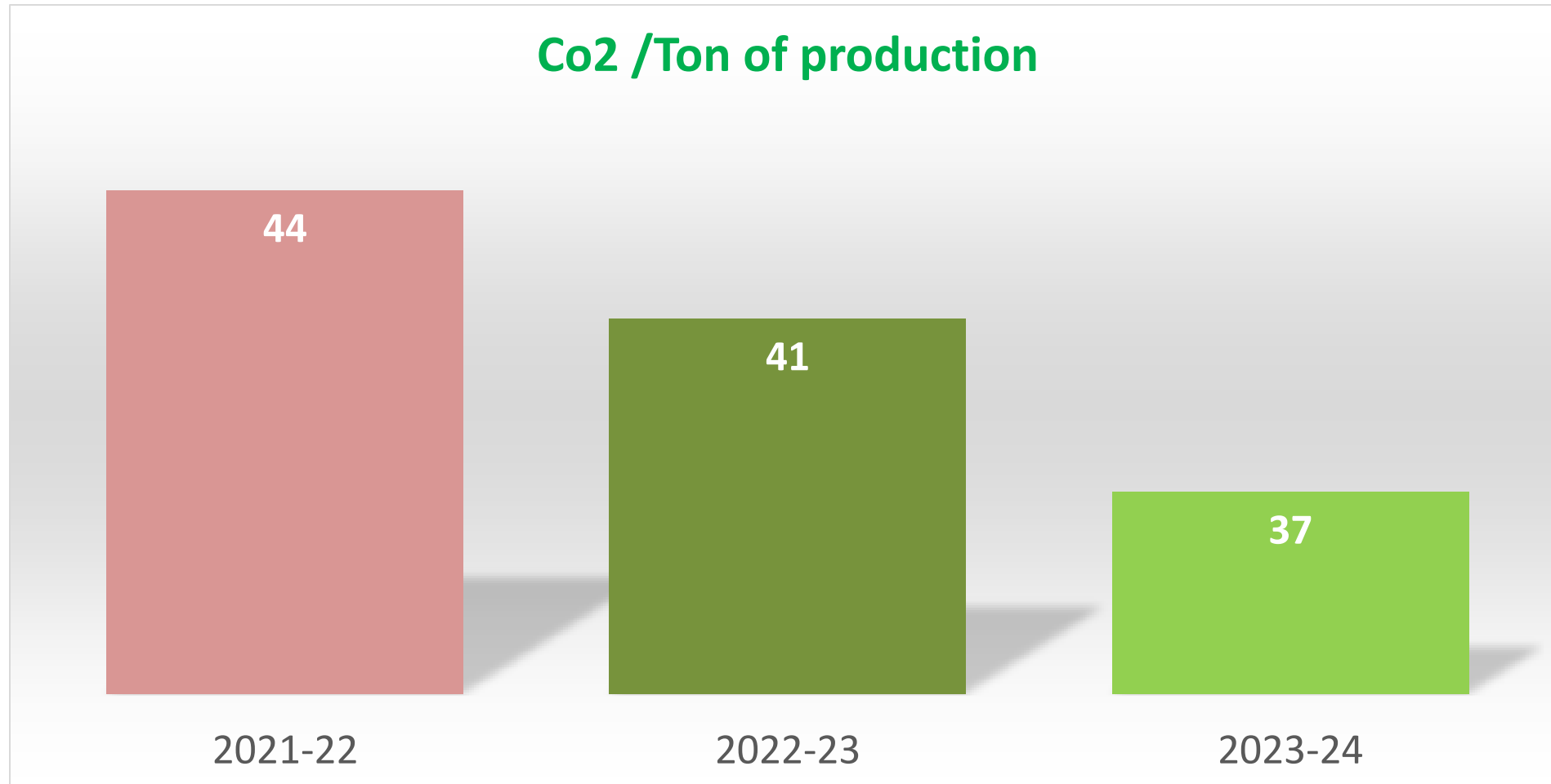


Using an electrical E-bikes and auto rickshaws to reduce Carbon footprints – compared to fuel vehicles

We have a zero-discharge effluent plant that we manage, and we generate methane gas that we use in the canteen, staff quarters and boiler. And in order to prevent pollution, seeded the 3000 different plants



Co2 /Ton of production

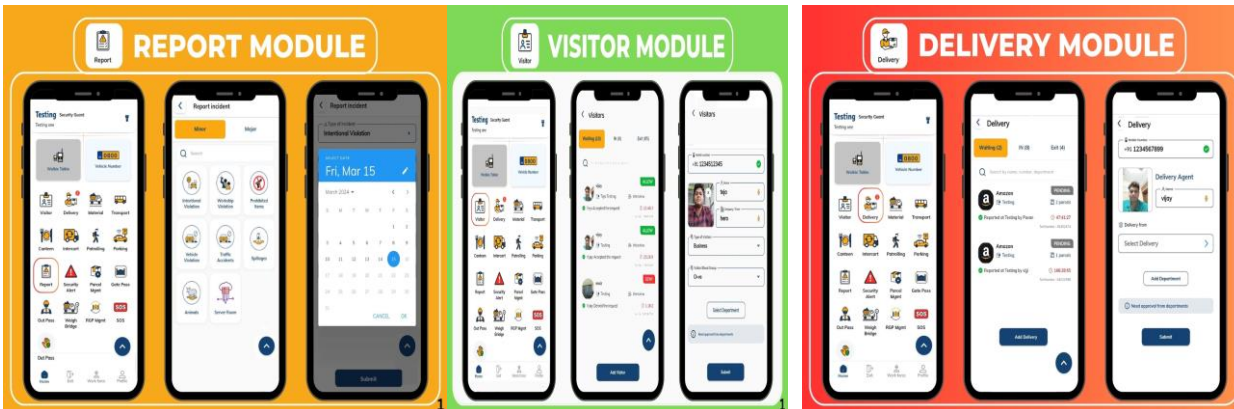


Sand And Carbon Filters For ETP Outlet & DIGITILIZATION OF DOCUMENTATION



we installed sand and carbon filters to ETP outlet. We are utilizing this water for crate washers, toilets flush, milk vehicle cleanings out sides and for Garden purpose.

Paperless works at Gate, and digital logs were maintained in the plant



we are on move to paperless gate entry , log books and documentation in digital form.

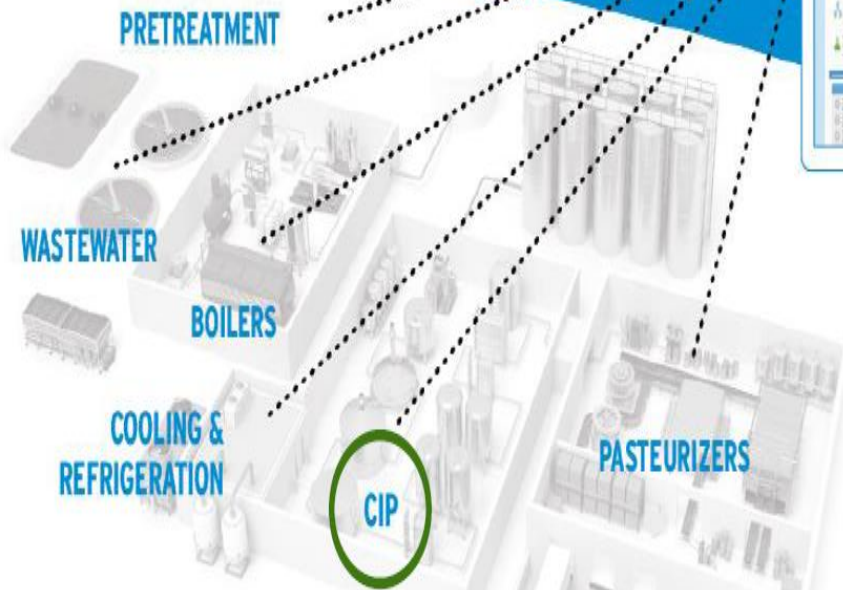


IOT technology is adopted for monitoring plant machinery cleaning operations

3DTRASAR™

Visibility & Actionable Insights

3DTRASAR™



4 KEY OBJECTIVES FOR A F&B PLANT

1	2	3	4
SAFELY	EFFICIENTLY	PROFITABLY	RESPONSIBLY
No food safety incidents, no worker accidents	Maximum utilization, minimum downtime	Lowest total cost	Least use of water, energy, effluent
Quality & Consistency	Productivity	Cost	Sustainability



NET ZERO ROADMAP FOR CARBON FOOTPRINTS.



CO2 saving from Logistics	2022-23	2023-24
CPL	2.19	1.97
Tankers Capacity Utilization by change of vehicle capacity	84%	91%
ReductioCo2 in KG / day from 22-23		537

By 2028 planning to change all vehicle to solar charging vehicles



YEAR	Kg Co2 reduction By Ton of Production in plant
2021-22	44
2022-23	41
2023-24	38
2024-25	30
2028-29	0







Best Dairy Company Award -2022



CII Award Best practices in cold storage -2018



THANK YOU...

DODLA

