



Leading Manufacturer Of Probiotics: *Unique Biotech Limited*

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UNIQUEBIOTECH



Company Profile:

- ❖ **Unique Biotech Ltd.** is established in 2001 to manufacture probiotics, enzymes and formulations for human and animal healthcare.
- ❖ UBL is ISO 9001:2008 and a WHO-GMP certified company with state of the art fermentation facility. Our scalable fermentation equipment enables fast and efficient development of new products .

Vision

- ❖ Pioneers in development of Probiotics, Biotherapeutics and Nutraceuticals.

Mission

- ❖ Discovery, development and commercialization of innovative Nutraceuticals formulations for improved healthcare at affordable prices



PROJECT CHARTER- CONCEPT BUY IN

- Integrated with conventional boiler feed water leads trouble free operations during non-sunshine hours
- Investment made could be recovered in 3-5 years with financial support from **MNRE & UNDP**, without financial support the same shall be 5 to 9 years.
- A small system of 100 sq. m. costing 30 lakhs may save 5000-10,000 liters of furnace oil in a year depending on type of technology/fuel used, boiler/burner efficiency & available DNI
- MNRE support has been 30% as subsidy on benchmark cost. UNDP support as 10-20% including for O &M & on-line performance arrangement.
- Major part of the CSTs is mirrors which may work for 15 to 20 years if solar grade mirrors are used in systems. Or else they may require replacement after 5 years.
- Support under UNDP-GEF project made available for repair & renovation to 5 years old systems on 50% cost share basis
- Reduces the carbon foot print by saving the fossil fuel significantly and makes the establishment environmental friendly



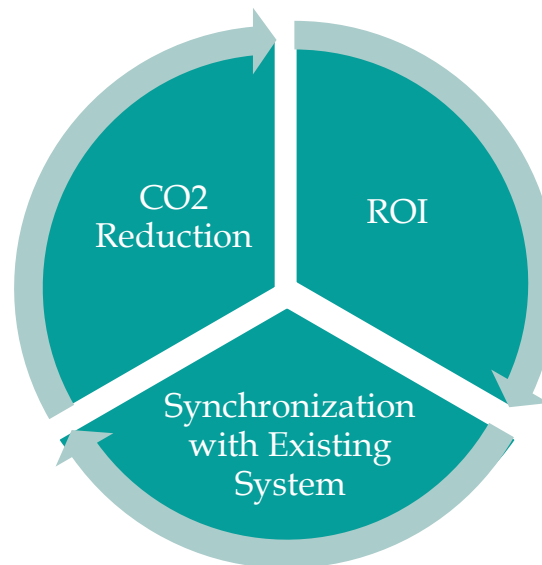
PROJECT DETAILS

Technology	Paraboloid Dishes each of 90 sqm.
System Size	540 sq.m (6 nos. of dishes)
Application	Processing of chemical compounds for preparation of medicines
Installation	May 2015
Project Cost	INR 13 million
Fiscal Grant	INR 4.86 million from MNRE and UNDP programme
Process	Hot water generated at 95° c by heating thermic fluid up to 180c being used as Boiler Feed water
Savings & CO2 reduction	Saving around 50 tons FO in a year with ~100 tons of CO2 abatement. Pay back 3-4 years after availing depreciation benefit
Access to on-line data	



PROJECT ADVANTAGE

- ❖ The system is fully automated including pumps, solar field, heat exchangers, valves and very minimal human intervention is required for operating entire facility like washing of the dishes
- ❖ Safety features in solar field include auto top-up & charging of oil, low level safety, low flow safety, high temperature defocus safety and an advanced control system that isolates solar field automatically on as-required basis
- ❖ The 2-axis moving focus project is unique in it and has been able to demonstrate successfully the heating requirements for process heat and should inspire in future other similar industries to opt for it

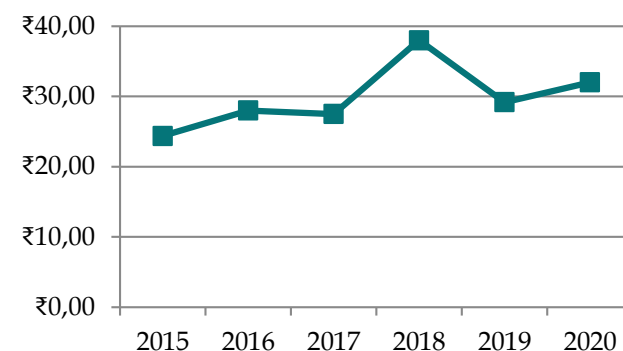




Performance Summary

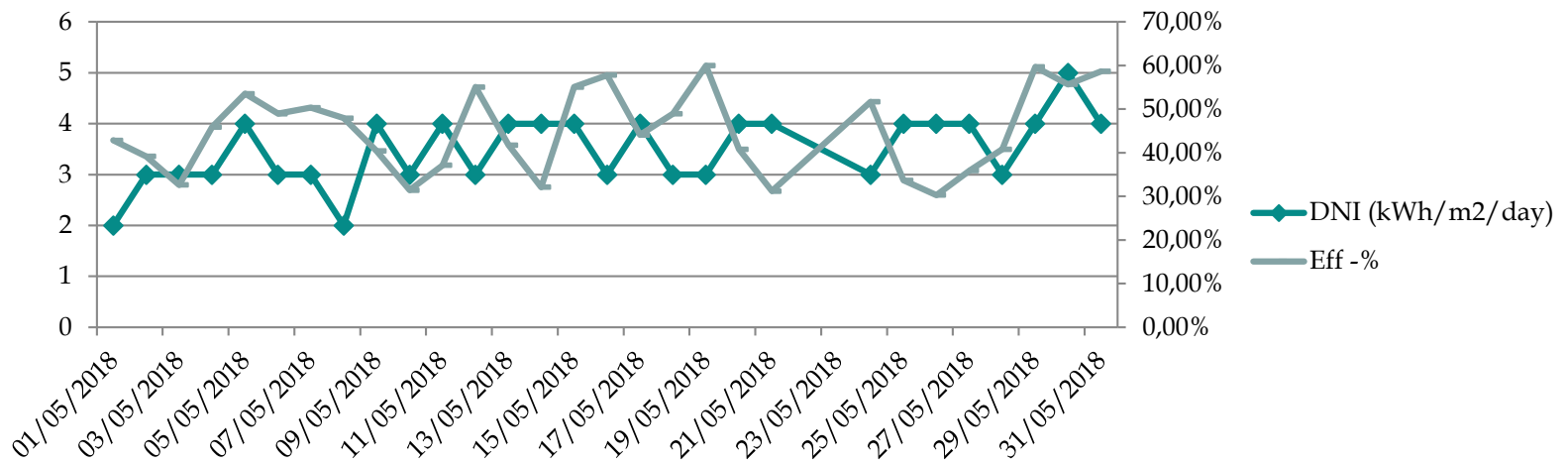
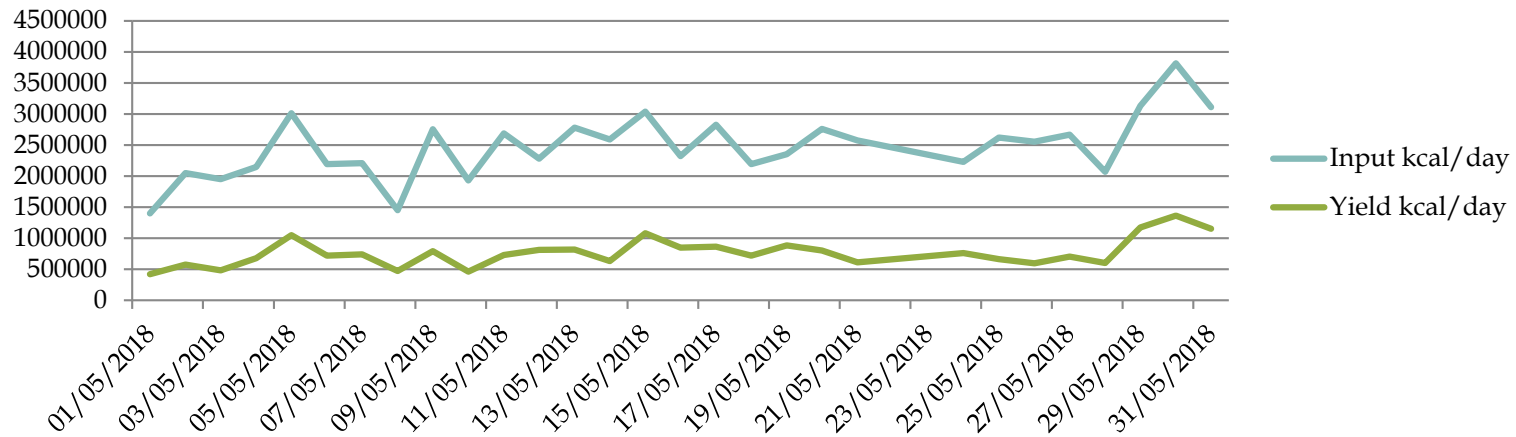
BASIS				
FO Gross Calorific Value			9600 Kcals/kg	
Average FO Cost / Ltr			₹35	
Sl No	MONTH	Total energy generated (Kcal/Month)	Equivalent FO(Kg)	COST (INR)
1	Jan-17	24,556,581	3009	₹ 105,328
2	Feb-17	25,754,463	3156	₹ 110,466
3	Mar-17	29,348,109	3597	₹ 125,880
4	Apr-17	28,449,698	3486	₹ 122,027
5	May-17	29,947,050	3670	₹ 128,449
6	Jun-17	35,936,460	4404	₹ 154,139
7	Jul-17	32,941,755	4037	₹ 141,294
8	Aug-17	34,439,108	4220	₹ 147,717
9	Sep-17	31,444,403	3853	₹ 134,872
10	Oct-17	33,241,226	4074	₹ 142,579
11	Nov-17	23,957,640	2936	₹ 102,759
12	Dec-17	25,155,522	3083	₹ 107,897
TOTAL			43526	₹ 1,523,409
Net Total Investment after subsidy		₹ 8,140,000		
ROI with Subsidy		5.34	Years	

**FO Price
Rs/Kg**





PERFORMANCE - GLIMPSE





Glimpse of plant

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KEY TAKEAWAY

HTE

- Energy Loss
- Preventive measures
- Maintenance

ECONMICS

- Fluctuation in Furnace Oil price against crude
- Alternate Fuels like Briquette, CNG availability affects economics of project
- Land lock in metro Areas

INSURANCE

- Act of God
- Claims & Support
- (We have lost 90sq.m dish in natural disaster)



THANK YOU!

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