

KHADI & VILLAGE INDUSTRIES COMMISSION
PROJECT PROFILE FOR GRAMODYOG ROJGAR YOJANA

PROJECT PROFILE ON PRODUCTION OF ENRICHED BIO-DIGESTED SLURRY UNDER REBT (BIO-TECHNOLOGY WING)

The biogas technology is attributed with dual benefits in the form of supply of a clean and high calorific fuel to meet the domestic fuel needs of rural areas and provision of anaerobically digested slurry with high manurial value. In addition to this, it is known to reduce the pathogenic load of night soil at a substantial level when toilets are attached to the biogas plants. Hence, it is an eco-friendly technology helping to reduce the destruction of forests by offering a fuel alternative to wood at the doorstep of the house and accruing a social benefit in way of alleviation of the drudgery of women in collection of firewood and cooking. It is also an environmentally sound technology as it provides a safe method for disposal of organic waste preventing spread of diseases and controlling pollution. Considering all these attributes together, the nutrient recovery through anaerobic digestion in biogas plant represents a more economic and efficient option in obtaining good quality manure for our farming system

1	Name of the Product	:	Enriched Bio-Manure
2	Project Cost	:	
	a Capital Expenditure		
	Land	:	
	Building Shed 1200 sq.ft.	Rs.	240000.00
	Equipment	Rs.	512000.00
	Biogas Plant (2-145Cum & 1-25 Cum) Shovel for Mixing, Sieving M/c., Cutter & Blender, Sewing M/c., Breeder Box, Mini Tractor		
	Total Capital Expenditure	Rs.	752000.00
	b Working Capital	Rs.	185000.00
	TOTAL PROJECT COST	: Rs.	937000.00

3 Estimated Annual Production of Enriched Bio-Manure (Value in '000)

Sr.No.	Particulars	Capacity (Mtonne)	Rate	Total Value
1	Enriched Bio-Manure	500.00	2.268	1134.28
	TOTAL	500.00		1134.28

4	Raw Material	:	Rs.	340000.00
5	Lables and Packing Material	:	Rs.	10000.00
6	Wages (Skilled & Unskilled)	:	Rs.	300000.00
7	Salaries	:	Rs.	90000.00
8	Administrative Expenses	:	Rs.	10000.00
9	Overheads	:	Rs.	240000.00
10	Miscellaneous Expenses	:	Rs.	15000.00
11	Depreciation	:	Rs.	63200.00
12	Insurance	:	Rs.	7520.00
13	Interest (As per the PLR)			
	a. C.E.Loan	:	Rs.	97760.00
	b. W.C.Loan	:	Rs.	24050.00
	Total Interest		Rs.	121810.00
14	Woring Capital Requirement	:		
	Fixed Cost		Rs.	220280.00
	Variable Cost		Rs.	914050.00
	Requirement of WC per Cycle		Rs.	185055.00

15 Cost Analysis

Sr.No.	Particulars	Capacity Utilization(Rs in '000)			
		100%	60%	70%	80%
1	Fixed Cost	220.28	132.17	154.20	176.22
2	Variable Cost	914.00	548.40	639.80	731.20
3	Cost of Production	1134.28	680.57	794.00	907.42
4	Projected Sales	1750.00	1050.00	1225.00	1400.00
5	Gross Surplus	615.72	369.43	431.00	492.58
6	Expected Net Surplus	553.00	306.00	368.00	429.00

- Note : 1. All figures mentioned above are only indicative and may vary from place to place.
2. If the investment on Building is replaced by Rental then
a. Total Cost of Project will be reduced.
b. Profitability will be increased.
c. Interest on C.E.will be reduced.