

Project Profile on Fly Ash Bricks

Introduction

INTRODUCTION Fly Ash bricks are made of fly ash, lime, gypsum and sand. These can be extensively used in all building constructional activities similar to that of common burnt clay bricks. The fly ash bricks are comparatively lighter in weight and stronger than common clay bricks. Since fly ash is being accumulated as waste material in large quantity near thermal power plants and creating serious environmental pollution problems, its utilisation as main raw material in the manufacture of bricks will not only create ample opportunities for its proper and useful disposal but also help in environmental pollution control to a greater extent in the surrounding areas of power plants. In view of superior quality and eco-friendly nature, and government support the demand for Fly Ash Bricks has picked up.

Process of Manufacture: Fly ash, lime sand and gypsum are manually fed into a pan mixer where water is added in the required proportion for intimate mixing. The proportion of the raw material is generally in the ratio 60-80% of fly ash 10-20% lime, 10% Gypsum and 10% sand, depending upon the quality of raw materials. After mixing, the mixture is shifted to the hydraulic/mechanical presses. The bricks are carried on wooden pellets to the open area where they are dried and water cured for 21 days. The bricks are tested and sorted before dispatch.

1 **Name of the Product :** Fly Ash Bricks

2 **Project Cost :**

a Capital Expenditure

Land : Own

Workshed in sq.mts 615 Rs. 600,000.00

Equipment : Rs. 855,000.00

Pan mixer 20 HP motor), Hydraulic Press (30 Tones Cap.), Belt Conveyor (Run by 3 HP motor) Deep Tube Well, Generator ,Steel Plates and - L.S.Extra Moulds,Trollies - L.S. Office, Furniture and Equipments

Total Capital Expenditure Rs. 1,455,000.00

b Working Capital Rs. 575,000.00

TOTAL PROJECT COST : Rs. 2,030,000.00

3 **Estimated Annual Production Capacity:**

(Rs. in 000)

Sr.No.	Particulars	Capacity in No./Q.	Rate Rs.	Total Value
1	Fly Ash Bricks	500000.00		3475.70
TOTAL		500000.00	0.00	3475.70

4 **Raw Material** : Rs. 1,247,000.00

5 **Packing Material** : Rs. 80,000.00

6 **Wages (10--Skilled & 10- Unskilled)** Rs. 1,400,000.00

7 **Salaries Manager- 1** Rs. 120,000.00

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8	Administrative Expenses	:	Rs.	200,000.00
9	Overheads	:	Rs.	100,000.00
10	Miscellaneous Expenses	:	Rs.	50,000.00
11	Depreciation	:	Rs.	115,500.00
12	Insurance	:	Rs.	14,550.00
13	Interest (As per the PLR)			
	a. C.E.Loan	:	Rs.	189,150.00
	b. W.C.Loan	:	Rs.	74,750.00
	Total Interest		Rs.	263,900.00
14	Working Capital Requirement	:		
	Fixed Cost		Rs.	573,700.00
	Variable Cost		Rs.	2,901,750.00
	Requirement of WC per Cycle		Rs.	579,242.00

15 Cost Analysis

Sr.No.	Particulars	Capacity Utilization(Rs in '000)			
		100%	60%	70%	80%
1	Fixed Cost	573.70	344.22	401.59	458.96
2	Variable Cost	2902.00	1741.20	2031.40	2321.60
3	Cost of Production	3475.70	2085.42	2432.99	2490.36
4	Projected Sales	4000.00	2400.00	2800.00	3200.00
5	Gross Surplus	524.30	314.58	367.01	419.44
6	Expected Net Surplus	409.00	199.00	252.00	304.00

- Note :
1. All figures mentioned above are only indicative.
 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.