

Project Profile on Pre-Fabricated Building Materials

Introduction

Prefabricated building materials made of cement concrete with reinforcement include door frames, windows, frames, frames, chajjahs, roof slabs, lintels, ventilators, wall partition panels, compound wall panels, cement concrete small pillars for compound wall, slabs for canal lining, tiles, personal linings, sills, trusses etc. The use of prefabricated building materials / components is gaining acceptance in mass construction and construction of houses for economically weaker sections for low cost houses and speedy construction. This eliminated the use of wood to a certain extent. **Raw material required** - Portland, sand, stone chips, high strength deformed, rods, M.S. rods & binding wire.

Process of Manufacture: Generally iron or seasoned teak wooden moulds are used for the manufacture of precast products depending upon their shape, size, design and specifications. Cement sand and aggregate in proper ratio with adequate water are mixed in concrete mixer. The desired moulds are well lubricated and filled with concrete mixture to 1/2 thickness of the mould, then the metal skeleton and other wooden pegs are placed in the mould at desired spots of the mould so that the wooden pegs can be used for fixing the metal fixtures such as hinges, latches etc. later the mould is filled with concrete mixture and the vibrator is passed on the surface of the filled mould to ensure hard mass by removing the air bubbles and loose water. The mould is allowed to dry. After removing from the mould the precast building material is cured for 21 days. After inspection, the product are ready for marketing.

1 Name of the Product : Pre-Fabricated Building Materials

2 Project Cost :

a Capital Expenditure

Land : Own

Workshop sq.mtrs 400 Rs. 80,000.00

Equipment : Rs. 50,000.00

Water tank, Mould and Fixures, jallies and other equipmentes

Total Capital Expenditure Rs. 130,000.00

b Working Capital Rs. 210,000.00

TOTAL PROJECT COST : Rs. 340,000.00

3 Estimated Annual Production Capacity:

(Rs. in 000)

Sr.No.	Particulars	Capacity in tons	Rate	Total Value
1	Pre-Fabricated Building Materials			1131.20
TOTAL		0.00	0.00	1131.20

4 Raw Material : Rs. 800,000.00

5 Packing Material : Rs. 5,000.00

6 Wages (1-Skilled & 2- Unskilled) : Rs. 144,000.00

7 Salaries 1- Manager Rs. 120,000.00

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8	Administrative Expenses	:	Rs.	10,000.00
9	Overheads	:	Rs.	5,000.00
10	Miscellaneous Expenses	:	Rs.	2,000.00
11	Depreciation	:	Rs.	9,000.00
12	Insurance	:	Rs.	1,300.00
13	Interest (As per the PLR)			
	a. C.E.Loan	:	Rs.	16,900.00
	b. W.C.Loan	:	Rs.	27,300.00
	Total Interest		Rs.	44,200.00
14	Working Capital Requirement	:		
	Fixed Cost		Rs.	150,200.00
	Variable Cost		Rs.	981,300.00
	Requirement of WC per Cycle		Rs.	188,583.00

15 Cost Analysis

Sr.No.	Particulars	Capacity Utilization(Rs in '000)			
		100%	60%	70%	80%
1	Fixed Cost	150.20	90.12	105.14	120.16
2	Variable Cost	981.00	588.60	686.70	784.80
3	Cost of Production	1131.20	678.72	791.84	806.86
4	Projected Sales	1500.00	900.00	1050.00	1200.00
5	Gross Surplus	368.80	221.28	258.16	295.04
6	Expected Net Surplus	360.00	212.00	249.00	286.00

- 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.