

PROJECT PROFILE ON CHEMICAL PORCELAIN

Introduction :

Chemical Porcelain is a white vitrified dense translucent body with or without glaze made of china clay, quartz, feldspar, talk and additives in different shapes of thin walled items. These products are being used in the laboratories of educational institutions, scientific development and industrial research, chemical, fertilizer and petrol chemical establishments etc. Raw materials required for production of Chemical Porcelain are china clay, ball clay, feldspar, bauxite, zircon sand, quartz, fire clay, chemicals etc.

Process of Manufacture: The hard lumps of quartz, feldspar etc. are crushed & mixed with china clay, talk in a suitable proportions with requisite quantity of water in the blunger. The slurry is passed through vibrating screen and magnetic separators for removal of grit and iron particles, if any, & sent to agitators. The slurry is pumped into the filter press where the water is separated & filtered body is formed into cakes. The cakes so formed are then transferred to de-airing pug mill for through pugging and extrusion into dense homogeneous plastic mass free from air bubbles. The extruded body is then shaped into required products by pressing jiggering slip casting methods depending upon the size, shape & properties, of the end products. The shaped articles are dried, finished & biscuit

1 Name of the Product : CHEMICAL PORCELAIN

2 Project Cost :

a Capital Expenditure

Land	:		Rs.	Own
Workshed in sq.ft	:		Rs.	-
Equipment	:		Rs.	65,000.00

Jaw crusher, Ball Mill, Screw blunger, Electromagnetic separator, Agitator, Filter press, Diaphragm pump, De-airing pugmill, Vibration screen, Jigger and Jolley.

Total Capital Expenditure	:		Rs.	65,000.00
b Working Capital	:		Rs.	110,000.00
TOTAL PROJECT COST :	:		Rs.	175,000.00

3 Estimated Annual Production Capacity:

(Rs. in 000)

Sr.No.	Particulars	Capacity in No./Q.	Rate	Total Value
1	CHEMICAL PORCELAIN			662.10
TOTAL		0.00	0.00	662.10

4 Raw Material : Rs. 250,000.00

5 Labels and Packing Material : Rs. 10,000.00

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

7 Salaries : Rs. 120,000.00

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8	Administrative Expenses	:	Rs.	45,000.00
9	Overheads	:	Rs.	60,000.00
10	Miscellaneous Expenses	:	Rs.	10,000.00
11	Depreciation	:	Rs.	6,500.00
12	Insurance	:	Rs.	650.00
13	Interest (As per the PLR)			
	a. C.E.Loan	:	Rs.	8,450.00
	b. W.C.Loan	:	Rs.	14,300.00
	Total Interest		Rs.	22,750.00
14	Working Capital Requirement	:		
	Fixed Cost		Rs.	184,100.00
	Variable Cost		Rs.	478,300.00
	Requirement of WC per Cycle		Rs.	110,400.00

15 Cost Analysis

Sr.No.	Particulars	Capacity Utilization(Rs in '000)			
		100%	60%	70%	80%
1	Fixed Cost	184.10	110.46	128.87	147.28
2	Variable Cost	478.00	286.80	334.60	382.40
3	Cost of Production	662.10	397.26	463.47	481.88
4	Projected Sales	1000.00	600.00	700.00	800.00
5	Gross Surplus	337.90	202.74	236.53	270.32
6	Expected Net Surplus	331.00	196.00	230.00	264.00

- 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.