

## **PROJECT PROFILE**

Product : Cement pavers

Quality Standard : NIL

Month & Year : May 2010

Prepared By : Glass & Ceramics Division  
MSME-DI  
3<sup>rd</sup> CGO Complex  
sanjay place Agra

# Cement pavers

## INTRODUCTION

Cement Concrete tiles and paving blocks are pre-cast solid products made out of cement concrete. The product is made in various sizes and shapes viz. rectangular, square and round blocks of different dimensions with designs for interlocking of adjacent tiles blocks. The raw materials required for manufacture of the product are Portland cement and aggregates which are available locally in every part of the country.

## MARKET POTENTIAL

Cement concrete tiles and paving blocks find applications in pavements, footpaths, gardens, passenger waiting sheds, bus-stops, industry and other public places. The product is commonly used in urban areas for the above applications. Hence, the unit may be set up in urban and semi-urban areas, near the market.

A lot of face-lift is being given to roads, footpaths along the roadside. Concrete paving blocks are ideal materials on the footpaths for easy laying, better look and finish. Whereas the tiles find extensive use outside the large building and houses, lots of these materials are also used in flooring in the open areas of public offices and commercial buildings and residential apartments.

## FINANCIAL ASPECTS

A. Fixed Capital

(i) Land and building

Own

<u>Particulars</u>	<u>Sq. Meters</u>	<u>Rate (Rs.)</u>	<u>Value (Rs.)</u>
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Land & Building

Land on rent (included in Monthly exp.)

### Land Development

Office & Store

(Garder & Patther )

10 x 10 =100 ft

20 x 10= 200ft

300 ft.

@ 500/-

115000.00

Working Tines Shed

1000 ft.

@ 200/-

200000.00

**Total : 315000.00**

**Machinery & Equipment Production Unit**

	Qty.	Rate	Value (in Rs.)
1. Hydraulically operated Concrete block Making machine: capacity 1500 blocks Per shift, with pressure vibration technique For compaction 3 MP motor, and other Accessories	3 Nos.	266667.00	800000.00
2. Concrete mixer capacity 10 ctf./7ctf.with 3hp motor	1 No.	90000.00	90000.00
3. Electric Generator Set 10 HP	1 No.	30000.00	30000.00
4. Submersible water pump with	1 No.	40000.00	40000.00
5. Colour Mixer	1 No.	1,00000	100000.00
6. Mould tools and others	2 set	90000.00	140000.00
7. Cost of erection and electrification	Job	100000.00	<u>100000.00</u>
		Total :	1300000.00

(iii) Pre Operative Expenses

Project report cost and other non refundable expenses 25000.00

(iv) Total Fixed cost ( i+ii+iii)

**1640000.00**

**(b) Working Capital (Per Month)**

(i) **Administration and Supervisory Personnel**

	No.	Salary (Rs.)	Total (Rs.)
Supervisor	01	5000	5000.00
Clerk Cashier	01	4000	4000.00
Chaukidar	01	2500	2500.00

**Tech. Skilled and Semi or Unskilled Personnel**

Skilled Workers	04	3500	14000.00
Unskilled Workers	10	2500	25000.00
Tractor Driver	01	4000	4000.00
Labour for Tractor	04	3000	<u>12000.00</u>

			66500.00
		Total cost of Salaries and wages	-----
(ii)	<b><u>Raw Materials (Per Month)</u></b>		
		Qty.	Rate
			Amount (Rs.)
	Portland Cement	30 ton	4400
	Sand	70 ton	650
	Store grit	140 ton	700
	Other		<u>24500.00</u>
		Total	300000.00
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(iii)	<b><u>Utilities (Per Month)</u></b>		
		Qty.	Rate
			Amount (Rs.)
	Electric Power		
	Generator Set	252 Ltr.	@ 40/-
	Other M/Oil etc.	20 Ltr.	@ 140/-
			<u>2800.00</u>
		Total	13000.00
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(ii)	<b><u>Other contingent Expenses (Per Month)</u></b>		Amount (Rs.)
	Postage and Stationery		500.00
	Telephone		1000.00
	Consumable Stores		2000.00
	Repairs and maintenance		5000.00
	Transport Charges		10000.00
	Advertisement and Publicity		2000.00
	Sales Exp.		5000.00
	Insurance etc.		5000.00
	Rent of land		<u>10000.00</u>
		Total	<u>40500.00</u>
	Total Recurring Expenditure per month ( i+ii+iii+iv)		420000.00
	Total Working Capital (on 3 months)		840000.00
( C )	<b><u>Total Capital Investment</u></b>		
	(i) Total Fixed Capital		1640000.00
	(ii) total Working Capital		<u>840000.00</u>
		Total	2480000.00
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## **FINANCIAL ANALYSIS**

### **(1) Cost of Production (Per Year) Amount (Rs.)**

Total Recurring Cost (12x4.20)	5440000.00
Depreciation on building 5% 3 x 15 or 15750.00	16000.00
Depreciation on Machine and Equipment 20% ALL 12.00	240000.00
Interest on capital Investment @ 14% (23.80)	<u>330000.00</u>
Total	<u>5296000.00</u>
Or Say	5300000.00

### **(2) Sales turnover (Per Year)**

3000 x 21 x 12 = 756000 I/ Bricks @ 8/- 6048000.00

(3) Net Profit (before tax) (2-1) 748000.00

### **(4) Net Profit Ratio**

$$\frac{\text{Net Profit per year} \times 100}{\text{Sales Turnover per year}} = \frac{748000 \times 100}{6048000} = 12.37\%$$

### **(5) Rate of Return (Percent)**

$$\frac{\text{Net Profit} \times 100}{\text{Total Capital Investment}} = \frac{748000 \times 100}{2380000} = 31.43\%$$

### **(6) Break Even Point**

Fixed cost

Total Dep. 256000.00

Interest of Total Capital Investment 333000.00

40% of Salaries and wages

66500 x 12 = 798000 x 40% 31800.00 or say 320000.00

40% of other Contingent

Expenses B (iv) 12 x 40500 = 486000 or say

40% = 194400

194000.00  
Total 1103000.00

### **B.E.P.**

$$= \frac{\text{Fixed Cost} \times 100}{\text{Fixed Cost} + \text{Net profit}}$$

$$= \frac{1103000 \times 100}{1103000 + 748000} = \frac{1103000 \times 100}{1851000}$$

$$= 59.59 \%$$

(k) List of Supplier's of Raw Materials : Local Suppliers

(1) List of Supplier's of Machinery & Equipments: Local Suppliers