

## STONE CRUSHER

### 1. INTRODUCTION

Crushed stone is segregated into various sizes like 35mm, 20mm, 12mm, etc for different uses. Crushed stone aggregates are used for construction of roads, bridges, housing, industrial building construction and other cement based products like RCC pipes, PSC poles, precast concrete slabs, frames and beams, etc for fabrication.

It is advantageous if the crushed stone unit is set up near the quarries where the granite boulders of various sizes are available for the crushing unit. The wastage from the granite industry will be of much use of the crushed stone unit.

### 2. MARKET

Housing is a basic need of the society. Hence, it is receiving increased focus. All the building constructions whether it is housing or industrial construction activities requires crushed stone. Crushed stone is also required for cement based products like RCC pipes, PSC poles, cement concrete hollow blocks, precast cement concrete slabs, well rings, window & door frames and road laing. The demand for crushed stone will continue to grow with the growth of its user industry. The unit an be set up depending availaility of raw material and major commercial centre.

### 3. MANUFACTURING PROCESS

The granite stones of various sizes are fed into the jaw crushers for size reduction. Depending on the desired output size of the crushed stone, the raw material may be fed to one or two jaw crushers in a sequence. Then these crushed stones re passed on to the rotary screen for size gradation. Material is handled through a belt conveyor to the different places of operation i.e from jaw crusher to the rotary screen.

### 4. PRODUCTION CAPACITY PER ANNUM

Capacity	15600	50
Selling Price	Rs. 15000 MT	170 per MT

### 5. PROJECT COST/CAPITAL INVESTMENT

S.No	Description	Amount Rs.
1	Fixed Capital	1245000
2	Working Capital for 1.5 month(s)	216000
3	Preliminary & Preoperative Expns	20000
Total Project Cost		1481000

## 6. MEANS OF FINANCE

S.No	Description	%age	Amount Rs.
1	Promoter Contribution	15%	222150
2	Subsidy /Soft Loan	20%	296200
3	Term Loan	65%	962650
	Total		1481000

## 7. FINANCIAL ASPECTS

## A. FIXED CAPITAL

## i. Land and Buildings

Land	1 acre	100000
Work shed	100 sq mts	120000
Office	5 sq mts	20000
Total		240000

## ii. Machinery and Equipment

S.No	Description	Qty.	Rate	Amount Rs.
1	Jaw crusher 400x225mm with 25 HP motor	1	225000	225000
2	Jaw crusher 350x150mm with 15 HP motor	1	200000	200000
3	Rotary screen for 35, 20, 12mm, 10 HP motor	1	60000	60000
4	Belt conveyor with 15 HP motor	2	60000	120000
5	Cyclonic dust collector with 12 HP motor	1	225000	225000
6	Erection and commissioning	LS		100000
7	Spare jaws, jigs, fixtures and tools	LS		50000
8	Office equipments, etc	LS		25000
	Total			1005000

## B. WORKING CAPITAL

## i. Salaries &amp; Wages (per month)

S.No	Description	Nos.	Sal/mon.	Amount Rs.
1	Manager/Entrepreneur	1	4000	4000
2	Supervisor	1	3500	3500
3	Skilled Workers	5	3000	15000
4	Unskilled Workers	8	2000	16000
5	Accountant cum clerk	1	3000	3000
6	Security	1	2000	2000
	Total			43500

## ii. Raw Material (per month)

S.No	Description	Unit	Qty.	Rate	Amount Rs.
1	Granite stone boulders	MT	1300	50	65000
	Total				65000

## iii. Utilities (per month)

S.No	Description	Unit	Amount Rs.
1	Power	LS	20000
2	Water	LS	1000
	Total		21000

## iv. Other Expenses (per month)

S.No	Description	Amount Rs.
1	Postage, Telephones & Stationery Expenses	500
2	Transportation & Conveyance Expenses	5000
3	Administrative expenses	1000
4	Consumeble Stores	1000
5	Reparis and Maintenance Expenses	5000
6	Miscellaneous Expenses	2000
	Total	14500

## v. Total Working Capital (per month)

S.No	Description	Amount Rs.
1	Salaries and Wages	43500
2	Raw Material	65000
3	Utilities	21000
4	Other Expenses	14500
	Total	144000

## 8. COST OF PRODUCTION (PER ANNUM)

S.No	Description	Amount Rs.
1	Total Working Capital	1728000
2	Depreciation @ 15%	150750
3	Interest on term loan @ 12%	115518
	Total	1994268

## 9. TURNOVER (PER YEAR)

S.No	Description	Unit	Qty.	Rate Rs.	Amount Rs.
1	Sales revenue	MT	15000	170	2550000
	Total				2550000

## 10. FIXED COST (PER YEAR)

S.No	Description	Amount Rs.
1	Depreciation	150750
2	Interest	115518
3	Salaries & Wages @ 40%	208800
4	Other Expenses incl. Utilities @ 40%	170400
	Total	645468

## 11. PROFIT ANALYSIS &amp; RATIOS

1	Net Profit	Rs.	555732
2	Percentage of Profit on Sales		22%
3	Percentage of Return on Investment		38%
4	Break Even Point		54%