

## COST BENEFITS ANALYSIS

M/S Jai Baba Patalpuri Stone Mines & Crusher (Pvt.) Limited

### a) Parameters for Evaluation of Loss of Forest

Sl. No.	Parameters	Description
1.	Loss of value of timber, fuel wood and minor forest produce on an annual basis including loss of man hours per annum of people who derived livelihood and wages from the harvest of these commodities.	Total no of trees affected in the forest land area = 5 L.S Cost of per tree in Rs. 3000/ trees (aprox.) Therefore the total cost of tree in forest land that will be affected is 15000/-
2.	Loss of animal husbandry productivity, including loss of fodder.	There is no loss of animal husbandry including fodder. The road side vegetation is not being used as fodder.
3.	Cost of human resettlement	There is no such loss.
	Loss of public facilities and administrative (Rods, building school, dispensaries, electric lines, railways etc) on forest land, or which would require forest land if these facilities were diverted due to the project.	There is no loss of public facilities and administrative infrastructure.
5.	Environmental losses: (Soil erosion, effect on hydrological cycle, wildlife habit, microclimate upsetting of ecological balance)	There will be no environmental loss as : i) No soil erosion is involved. ii) The mining shall not touch the ground water level. iii) Wild life habitat are not affected. iv) The mining shall not affect the ecological balance.
6.	Suffering to oustees	There are no suffering to oustees

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#### b) Parameters for Evaluation of Benefit, notwithstanding loss of Forest

S. No.	Parameters	Description
1.	Increase in productivity attributable to the specific project	<p>In lieu of total trees to be affected in forest land, it is proposed to bear the cost of plantation of at least three trees as compensatory afforestation as per forest (conservation) act 1980.</p> <p>It has been proposed to develop green belt by planting in safety zone.</p> <p>There will be additional plantation in other non-forest area</p>
2.	Benefits of economy	<p>The proposed mining is of significant importance as this will provide ample employment opportunity to the masses. Also the proposed mining will bring remarkable social and economical upliftment of the people. of this area. With the upcoming of this project there will be approximately 10-15% enhanced growth rate in the GDP against normal growth rate.</p>
3.	No. of population benefited	<p>100 people will be benefitted by opening of this Project and infrastructural development of the area.</p>
4.	Employment Potential	<p>A total of 32 people will get the Employment directly and 100 persons will get the employment indirectly.</p>
5.	Cost of acquisition of facility on non-forest land wherever feasible.	<p>No non forest land is involved.</p>
6.	Loss of (a) agriculture & (b) animal husbandry production due to diversion of forest Land.	<p>Nil</p>

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7.	Cost of rehabilitating the displaced person as different from compensatory amounts given for displacement.	Not applicable
8.	Cost of supply of free fuel wood to workers residing in or near forest area during the period of Mining,	Only local workers will be employed, hence no fuel wood will be supplied to the workers. The managerial staff of the Project shall be provided the LPG for cooking and other purposes.

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### Calculation of cost Benefit Ratio

S. No.	Parameters	COSTS		
		Quantity	Rate in Rs.per unit	Amount (Rs)
1.	Loss value of Timber, Fuel Wood and Minor Forest Produce on an annual basis including loss of man hour per annum of people who derived livelihood and wages from harvest.			
	(A) Trees	05	3000	15000
	(B) Fuel Wood / Shrub/ LPG	02	1000	2000
2.	Loss of Animal Husbandry, productivity			-----
3.	Loss of Fodder			-----
4.	Loss of Human Resettlement & loss of Public Facilities & Administrative Infrastructure etc. (Roads, Building, School , Utility)			-----
5.	Environmental Loss (Soil Erosion, Effect on Hydrological Cycle, wildlife Habit, Micro climate Change etc.)			-----
	Medium / Dense Forest (70%)	0.00	0.00	0.00
	Open / Degraded Forest (30%).	12.00	730000	8760000
6.	Project Cost			6000000
7.	Total			14777000

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## BENEFITS

S. No.	Parameters	Quantity	Rate ( Rs.) per tonne	Amount (Rs.)
1.	Economic Benefit – Sale of 210105.31 Metric Tonnes of Stone per annum	210105.31	400	84042124
2.	Market Development Assuming 10 Shops to be established after opening of Mine employing minimum 2 nos of people including owner. Take minimum benefits as Rs.400/- Per person Benefit			2400000
3.	Employment Potential			
	Skilled Labours (for 3 yrs )	12 x 500 x 300 x 10		18000000
	Semi- skilled/ un skiklled Labours	17 x 350 x 300 x10		17850000
	Technical / Supervisory People	03 x 2000 x 300 x 10		18000000
	TOTAL			140292124

**COST TO BENEFIT RATIO: 1: 9.49**

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