

### Cost Benefit Ratio Chart

**Name of the Project- Collection of the minor mineral (Bolder, Bajri, Sand etc.) form the Swarna Nadi, Jhajra Range for next 10 years (2016 to 2026)**

Block: Jhajra Range (Dehradun Forest Division) District: Dehradun

S. No.	Particulars	Amount(Rs)	Remarks
1	Total cost (investment to be incurred)	12,44,83,050	Compensatory afforestation: Rs 1, 00, 32, 000 Afforestation in lieu of safety zone: Rs 16, 72, 000 Fencing of safety zone: Rs 81, 27, 050 Demarcation: Rs 35, 00, 000 Staff salary: Rs 2, 16, 00, 000 Labour welfare: Rs 2, 45, 52, 000 Repair and maintenance of roads: Rs 50, 00, 000 Other expenditures: Rs 5, 00, 00, 000
a	Construction cost of the project	Nil	No construction is to be done
b	NPV: Amount to deposited @ 9.20 lakh/ ha = Rs 2,18,50,000	Nil (UKFDC is exempted)	As per the order of the Supreme Court of India in TN Godavarman Thirumulpad v/s Union of India & Ors; dated 09 May, 2008
c	Substitute/alternate plantation cost to be disposed	1, 52, 04, 000	Compensatory afforestation: Rs 1, 00, 32, 000 Afforestation in lieu of safety zone: Rs 16, 72, 000 Demarcation: Rs 35, 00, 000
2	Benefits:- Benefits from project (Taking 10 years as project period)		
a	Economic benefits-market development taking 10 yrs as project period	47, 33, 52, 000	Target production = 1,20,000 m <sup>3</sup> Weight of 1 m <sup>3</sup> = 22 quintal Cost of 1 quintal = Rs 17.93 Project period = 10yrs Amount = 1,20,000x22x17.93x10 = Rs 47, 33, 52, 000
b	Direct employment of labours-	47, 25, 00, 000	About 500 labours will be working for 9 months/year for 10 yrs @ Rs 350 = Rs 47, 25, 00, 000. <b>NB: These labours are directly paid by buyers</b>
c	Employment generation due to other activities		

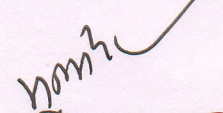
Note: Total expenditure Sl. No 1 = Rs 12, 44, 83, 050

Benefit Sl. No 2 = Rs 47, 33, 52, 000

Therefore, Benefit/Cost Ratio = 47, 33, 52, 000/12, 44, 83, 050 ≈ 3.80

Therefore, the project is economically viable and socially beneficial



  
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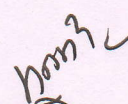


**Name of Project:-** Collection of the minor mineral (Boulder, Bajri, Sand etc.) from the Swarna Nadi, Jhajra Range for next 10 years (2016 to 2026)

**Parameter for evaluation of loss of forests**

**Nature of Proposal:** Collection of the minor mineral from Swarna Nadi, Jhajra Range as per the silvicultural requirement

S. No	Parameters	Minor irrigation projects, quarrying of stones/metals
1	2	3
1	Loss of value of timber, fuelwood and minor forest produce on an annual basis, including loss of man hours per annum of people who derived livelihood and wage from the harvest of these commodities	Minor mineral will be collected from middle of the river as per prescription under chapter VII para 7.21 of the working plan of Dehradun Forest Division. By doing so, it will be ensured protection of the nearby forest, land and habitat. So there is no loss of any forest.
2	Loss of animals husbandry productivity including loss as fodder	There is no loss of animal's husbandry productivity and loss of fodder because collection of the minor mineral will be done in the middle of the seasonal river which is free from fodder and hence from animals.
3	Cost of human resettlement	There is no human settlement as the area is a reserved forest within river bed.
4	Loss of public facilities and administrative infrastructure (Roads, Building, School, Dispensaries, Electric Lines, Railways etc.) on which would require forest land if the facilities were diverted due to the project	No public facilities exist in the proposed site and there is no need for diversion of any infrastructure in un around the site.
5	Environment losses: (Soil erosion, effect on hydrological cycle, wildlife habitat, microclimate upsetting of ecological balance)	Rs. 3, 01, 00, 750 as per annexure VI (b) of Handbook issued by the Govt of India
6	Suffering to outtees	There is no resettlement issue due to the project.

  
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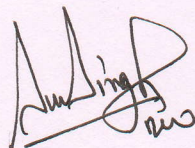



**Name of Project:-** Collection of the minor mineral (Boulder, Bajri, Sand etc.) from the Swarna Nadi, Jhajra Range for next 10 years (2016 to 2026)

**Parameter for Evaluation of loss of Forests**

**Nature of Proposal:** Collection of the minor mineral from Swarna Nadi, Jhajra Range as per the silvicultural requirement

S. No	Parameters	Roads Tr. Lines Railway Line
1	2	3
1	Increase in productivity attributable to the specific project	The area lies unoccupied for the past many years. There is possibility of illegal collection of RBM. Not only this, due to flooding during rainy season the level of river bed kept on rising. If legalised mining is done there will be increase in govt. revenue and the nearby areas will be prevented from submersion.
2	Benefit of economy	As given in cost benefit ratio chart, the total expenditure for the coming 10 years is Rs 12,44,83,050 and the benefit will be Rs 47,33,52,000.
3	No. of population benefited	About 500 persons
4	Employment potential	About 500 persons
5	Cost of acquisitions of facility of non-forest land wherever feasible	There is no need of acquisitions of non-forest land for any facility.
6	Loss of (a) agricultural & (b) animal, husbandry production due to diversion of forest land.	There will be no loss in agricultural and animal husbandry production due to diversion of the forest land because the area is in seasonal river bed where there is no flora and fauna.
7	Cost of rehabilitating the displaced persons as different from compensatory amounts given for displacements	There is no displacement of people due to the project.
8	Cost of supply of free fuel wood to workers residing in or near forests area during the period of construction.	About Rs 50,00,000/annum



  
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