Cost Benefit Analysis

Name of The Project - Collection of minor mineral (Bolder, Bajri, Sand etc.) from the Chandarbhaga River of Shivpuri Rang, Narendaranagar Forest Division for 10 years.

Table A

No.	Nature of proposal	Remarks
1	All Categories of proposals involving forest land upto 20 hectares in plains and upto 5 hectare in hills.	No applicable
2	Proposal for defence installation purposes and oil prospecting (prospecting only)	No applicable
3	Habitation, establishment of industrial units, tourist lodges complex other building construction,	No applicable
4	All other proposal involving forest land more than 20 hectares in plains and more than 5 hectares in hill including road, transmission lines, minor medium and major irrigation projects, hydro projects, mining activity railway lines, location specific installations like micro-wave stations, auto repeater centres, tv towers etc.	Applicable and details are assessment is given in table B.

प्रभागीय लौकिंग प्रबन्धक (खनन)
उत्तराखण्ड वन विकास निगम
देहरादून

Table B Estimation of cost of forest land diversion

No.	Parameters	Remarks
1	Ecosystem Services losses due to proposed forest diversion.	12,48,30,000
2	Loss of animal husbandry productivity, including loss of fodder.	1,24,83,000
3	Cost of human resettlement	NA
4	Loss of public facilities and administrative infrastructure (Road, buildings, Schools, dispensaries electric lines, railways, ect.) on forest land, if this facilities were diverted due to the project.	NA
5	Possession value of forest land diverted.	3,74,49,000
6	Cost of suffering to oustees.	NA
7	Habitat Fragmentation Cost.	62415000
8	Compensatory Afforestation and soil & moisture conservation Cost.	Cost of Compensatory Afforestation is 128129920
	Total	36,53,06,920

प्रभागीय कार्यिंग प्रबन्धक (अनन)
उत्तराखण्ड वन विकास निगम
देहरादून

Table – C Existing guidelines for estimating benefits of forest - diversion in CBA

No.	Parameters	Remarks
1	Increase in productively attribute to the specific project.	Production Target is 1425000 m3 or 31350000 Quintal per year @ Rs. 7.0/ Qtl.= 21,94,50,000× 10 Yrs. = 219,45,00,000
2	Benefits to economy due to the specific project.	219,45,00,000-36,53,06,920 =182,91,93,080
3	No. of population benefited due to specific project.	1000 Person
4	Economic benefits due to of direct and indirect employment due to the project.	1000 Person will get engaged at the rate of Rs. 330 per day for 9 month in a year up to 10 years. 1000×330×270day×10Years Rs 89,10,00,000 Assuming Rs. 100 per day expenditure of one labourer for their daily need of food etc.= 1000×100×270 days×10 years = 27,00,00,000.00 Hence, economic benefits = 89,10,00,000 -27,00,00,000 = 62,10,00,000.00
5	Economic benefits due to compensatory afforestation.	(Present NPV Rate of Dense Forest – Cost of C.A.) 32,11,00,000-12,81,29,920 = 19,29,70,080

प्रभागीय लोहिंग प्रबन्धक (ऊनन)
उत्तराखण्ड वन विकास निगम
देहरादून