

Cost Benefit analysis in respect of Diversion of total 185.017Ha Forest Land of Chhal OC Seam III(6MTY) Project of SECL Raigarh Area (Proposal No. FP/CG/MIN/16237/2015)

SL.No.	Parameters	Remarks	Cost (in Rs.)
1	Ecosystem services losses due to proposed forest diversion.	Economic value of loss of eco – system services due to diversion of forest : – NPV Amount	14,70,98,312.00
2.	Loss of animal husbandry productivity, including loss of fodder.	10% of NPV has been considered.	1,47,09,831.20
3.	Cost of Human Resettlement	As per provision in Project Report.	51,18,24,000.00
4.	Loss of Public Facilities and Administrative infrastructure (Roads, Building, Schools, Dispensaries, Electric Lines, Railways etc.) on forest land, which would require forest land if these facilities were diverted due to the project.	No such Public Facilities and Administrative infrastructure (Roads, Building, Schools, Dispensaries, Electric Lines, Railways etc.) exists on said forest land.	Nil
5.	Possession Value of Forest Land Diverted.	30% of NPV has been considered.	4,41,29,493.60
6.	Cost of suffering to oustees.	Subsistence Allowance for 450 PAFs @ 175 x 25 x 12. Calculated as 1.5 times for two years.	7,08,75,000.00
7.	Habitat Fragmentation on Cost.	50% of NPV has been considered.	7,35,49,156.00
8	Compensatory Afforestation and Soil & Moisture	Actual cost of Compensatory Afforestation at present discounted value.	22,21,02,547.91
	Conservation Cost	Soil & Moisture conservation at present discounted value i.e. 25% of cost of Compensatory Afforestation	5,55,25,636.98
		Total	113,98,13,977.69 i.e. <u>Rs. 113.98</u> <u>Crores</u>

Table - B: Estimation of cost of forest diversion :-

Table - C : Estimation of benefit of forest diversion:-

SI. No	Parameters	Remarks	Cost (in Rs.)
1	Increase in productively attribute to the specific project.	Quantified and expressed in monetary terms avoiding double counting.	
2.	Benefit to economy due to the specific project.	Calculated on the basis of incremental economic benefit in monetary terms due to the activities attributed to the specific project. (As per Project Report). Estimated profit @ <u>Rs.136.39/te</u> . Of coal production X <u>151360000</u> <u>Tes.</u>	2064,39,90,400.00
3.	No. of Population benefited due to specific project.	As per Project Report	Direct Employment : 296 Indirect Employment : 500
4.	Economic benefits due to direct and indirect employment due to the project.	As per Project Report	Direct Employment : Compensation of Land, household & other belonging of the affected people will be be paid and also land plots will be allotted to all PAPs at fully developed R&R site. Indirect Employment : There is scope of spontaneous economic stimulus in the area due to the project. Indirect employment opportunity will be generated in associated and ancillary activities.
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5.	Economic benefits due to Compensatory Afforestation	Benefits from such compensatory afforestation accruing over next 50 years monetized and discounted to the present value should be included as benefits of compensatory afforestation. Standard gain x applied area x average forest density = 150.50 lakh x 185.017 x 0.5	139,22,52,925.00
		Total	2203,62,43,325.00
		Cost Benefit Ratio	i.e <u>. Rs. 2203.62 Crores</u> 1:19.33

GM (Mining)/Sub Area Manager

SECL, Chhal Sub Area

Margr 22/10/2017

Nodal Officer(Forest/Envt.) Chhal Sub Area

उपवन मण्डलाधिकारी धरमजयगढ, उपवन मण्डल

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