


**Cost Benefit analysis in respect of Diversion of 55.850Ha Forest Land of  
Chhal OC Seam III(6MTY) Project of SECL Raigarh Area  
(Proposal No. FP/CG/MIN/39334/2019)**


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

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 <b>: NPV Amount</b>	<b>4,48,47,550.00</b>
2.	Loss of animal husbandry productivity, including loss of fodder	<b>10% of NPV</b> has been considered	<b>44,84,755.00</b>
3.	Cost of Human Resettlement	As per provision in Project Report.	<b>51,18,24,000.00</b>
4.	Loss of Public Facilities and Administrative infrastructure (Road Building, School, Dispensaries, Electric Lines, Railway etc.	No such Public Facilities and Administrative infrastructure (Roads, Building, Schools, Dispensaries, Electric Lines, Railways etc.) exists on said forest land.	<b>Nil</b>
5.	Possession Value of Forest Land Diverted	<b>30% of NPV</b> has been considered	<b>1,34,54,265.00</b>
6.	Cost of suffering to oustees	Subsistence Allowance for 450 PAFs @ 175x25 x 12 Calculated as 1.5 times for two years.	<b>7,08,75,000.00</b>
7.	Habitat Fragmentation on Cost	<b>50% of NPV</b> has been considered	<b>2,24,23,775.00</b>
8	Compensatory Afforestation and Soil & Moisture Conservation Cost	Actual cost of Compensatory Afforestation at present discounted value.	<b>8,96,16,634.10</b>
		Soil & Moisture conservation at present discounted value i.e. 25% of cost of Compensatory Afforestation	<b>2,24,04,158.50</b>
		<b>Total</b>	<b>77,99,30,137.60 i.e. Rs. 77.99 Cores</b>

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

Sl. 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) <b>Estimated profit @ Rs.136.39/te. of coal production X 151360000 Tes.</b>	<b>2064,39,90,400.00</b>
3.	No. of Population benefited due to specific project	As per Project Report	Direct Employment : 296 Indirect Employment : 500
4.	Economic due to direct and indirect employment due to the project	As per Project Report	<b>Direct Employment :</b> Compensation of Land, household & other belonging of the affected people has already been paid and land plots have been allotted to all PAPs at fully developed site. <b>Indirect Employment :</b> There has been spontaneous economic stimulus in the area since the opening of the project. Indirect employment opportunity created in associated and ancillary activities.

  
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5.	Economic benefit due to Compensatory Afforestation	Benefit from such compensatory afforestation accruing over next 50 years monetized and discounted to the present value should be included as benefit of Compensatory Afforestation. Standard gain x Applied area (ha.) x Average forest density = 150.50 lakh x 55.850 x 0.4	33,62,17,000.00
		Total	2098,02,07,400.00 i.e. Rs. 2098.02 Crores
		Cost Benefit Ratio	1 : 26.90

  
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