

**Cost Benefit Analysis in respect of diversion of 43.942 Ha Revenue Forest land of
Kusmunda OC Mine of Kusmunda Area, SECL**

(As per New guideline Dtd:01.08.2017 issued by MoEF&CC, Govt of India, New Delhi)
Project Area = 2914.950 Ha.

Table-B: Estimation of cost of Revenue forest diversion of 43.942 Ha

S.No	Parameters	Remarks	Cost (in Rs)	Note
1	Ecosystem services losses due to proposed forest diversion	Economic value of ecosystem services due to diversion of forests-NPV amount (As per PR)	43942000.00	10 Lakhs/ Ha as per 50 MTY PR
2	Loss of animal husbandry productivity, including loss of fodder	Taken as 10% of NPV amount	4394200.00	
3	Cost of human settlement	As per provision in Project Report	139254450.74	Compensation for existing assets for 265 PAFs excluding subsistence allowance + Compensation in lieu of job to 116 land oustees + Development in Rehabilitation Colony
4	Loss of public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric lines, railways etc.,)	No such public facilities and administrative infrastructure such as roads, building, schools, dispensaries, electric lines etc are available in the proposed forest land for diversion, thus no loss will be occurred due to the proposed diversion.	NIL	
5	Possession value of forest land diverted	It is a case of proposal for diversion, thus possession value of forest land diverted is taken as 30% of NPV	13182600.00	
6	Cost of suffering to oustees	Subsistence allowance for 265 PAFs @ 175 x 25 x 12 calculated @ 1.5 times for two years.	41737500.00	
7	Habitat fragmentation cost	Cost due to fragmentation (50% of NPV)	21971000.00	
8	Compensatory Afforestation and soil & moisture conservation cost	Actual cost of compensatory afforestation at present discounted value	63827424.80	at 726269 /ha
		Soil & moisture conservation cost 25% of the CA cost	15956856.20	
		Total	344266031.73	

General Manager
Kusmunda Area

Area Finance Manager
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Nodal Officer (Env/Forest)
Kusmunda Area

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

S.No	Parameters	Remarks	Benefit (in Rs.)
1	Increase in productivity attribute to the specific project	Quantified and expressed in monetary terms avoiding double counting	NIL
2	Benefits 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).	13351103600.00
3	No. of population benefitted due to specific project	As per Project Report	Direct Employment: 2085 Indirect Employment: 7394
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 effected people will 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 to the project. Indirect employment opportunity will be generated in associated and ancillary activities.
5	Economic benefits 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 benefits of compensatory afforestation. Standard gain x applied area x average forest density=150.50 lakhs x 43.942 x 0.4	264530840
Total			13615634440.00
Cost Benefit Ratio			1:40

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