


Annexure-VII

Parameters for Evaluation of Benefits to the Karapani Irrigation Project in Bonai Forest Division, Sundargarh, Odisha.

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

SI No.	Parameters	Remarks
1	Increase in productivity attributed to the specific project .	₹ 670.17 Crore
2	Benefits to economy due to the specific project.	₹ 534.23 Crore
3	No. of population benefited due to the specific project.	2,46,955
4	Economic benefits due to direct and indirect employment due to the project.	₹ 6.66 Crore
5	Economic benefits due to Compensatory afforestation .	₹ 4.87 Crore
	TOTAL :-	₹1215.93 Crore


Executive Engineer
Investigation Division
Sundargarh

ANNEXURE-VIII.**PARAMETERS FOR EVALUATION OF LOSS OF FORESTS**
TABLE-B

Sl. No.	Parameters	Remark
1.	Ecosystem services losses due to proposed forest diversion. (113.075 ha. X 9,39,000/- per ha.)	₹ 10,61,77,425/-
2.	Loss of animal husbandry productivity, including loss of fodder (10% of NPV)	₹ 1,06,17,743/-
3.	Cost of human resettlement	-
4.	Loss of public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric line, railways, etc.) on forest land, which would required forest land if these facilities were diverted due to the project	-
5.	Possession value of forest land diverted. (30% of environmental cost (NPV).	₹ 3,18,53,228/-
6.	Cost of suffering to oustees.	-
7.	Habitat fragmentation cost. (50% of NPV)	₹ 5,30,88,713/-
8.	Compensatory Afforestation and soil and moisture conservation cost.	₹ 4,87,73,154/-
TOTAL :-		₹ 25,05,10,263/-

Divisional Forest Officer,
Bonai Division.

SUMMARY OF COST BENEFIT ANALYSIS

Total loss due to proposed forest diversion : ₹ 25.05 Crore

The total benefit to the economy : ₹ 1215.93 Crore

Hence, the cost benefit ratio of the Irrigation Project is : 1 : 48.54

Or,

1 : 49.00


Divisional Forest Officer,
 Bonai Division.
