Cost Benefit Analysis for

KUWAJHAGAR TANK PROJECT

RATLAM

On the basis of Guidelines for Forest Land Diversion 2017 <u>Table-A Cases Under Which A Cost Benefit Analysis for Forest Diversion Area Required</u>

S. No.	Nature of Proposal	Applicable / Not Applicable	Remarks
1	All categories of proposal involving	Not applicable	
	forest land upto 20 Ha. in plains and		
	upto 5 Ha. in hills.		
2	Proposal for defense installation	Not applicable	
	purposes and oil prospecting		
	(prospecting only)		
3	Habitation, establishment of industrial	Not applicable	
	units, tourist lodges complex and other		
	building construction.		
4	All other proposal involving forest land	Applicable	These are cases where a
	more than 20 Ha. in plain and more		cost benefit analysis is
	than 5 Ha. in hills including roads,		necessary to determine
	transmission lines, minor, medium and		when diverting the forest
	major irrigation project, hydro projects,		land to non-forest use of
	mining activity, railway lines, location		overall public interest. The
	specific installations like micro-wave		Kuwajhagar Tank Project
	station, auto repeater centers, TV		falls under this category.
	towers etc.		

Table-B Estimation of Cost of Forest Diversion

S. No.	Parameters	4 Remarks
1	Ecosystem services losses due to proposed forest diversion.	Ecosystem services due to diversion of forest land suggested by the forest classification report of proposed, Kuwajhagar Tank Project is Rs. 4.00 Lakhs/Ha. Cost of Land = 20.512 x 4.00 = 82.05 Lakhs Eco Class III consisting of tropical dry decided forest dams.
2	Loss of animal husbandry productivity including cost of fodder.	As per the cost benefit guideline i.e. 10% of N.P.V. 0.40 Lakh per Ha. = 20.512 x 0.40 = 8.20 Lakhs
3	Cost Human Resettlement	There is no human settlement due to proposed Kuwajhagar Tank Project. Hence cost of human resettlement is nill.
4	Loss of public facilities and administrative infrastructure (road, building, schools, dispensaries, electric lines, railways etc.) on forest land if these facilities were diverted due to the project.	There is no loss of public facilities and administrative infrastructures of forest land due to construction of Kuwajhagar Tank Project. No cost has been added on this account.
5	Possession value of forest land diverted.	The possession value of forest land diverted is taken 30% of the N.P.V. due to loss of forest i.e. Rs. 1.20 Lakhs/Ha. = 20.512 x 1.20 = 24.61 Lakhs
6	Cost of suffering to oustees	No Applicable.
7	Habitat fragmentation cost	Forest land is being acquired for submergence of Kuwajhagar Tank Project. There is no amount is taken under this account.
8	Compensatory afforestation and soil and moisture conservation cost.	The cost @Rs 3.00 Lakhs per Ha. is taken for compensatory afforestation and soil moisture conservation. Hence amount will be = 20.512 x 3.00 = 61.54 Lakhs
9	Total cost due to forest land diversion	Total cost due to forest land diversion for Kuwajhagar Tank Project will be: = 82.05 + 8.20 + 24.61 + 61.54 = 176.40 Lakhs

Table-C Existing Guidelines for Estimating Benefits of Forest Diversion in CBA

S. No.	Parameters	Remarks
1	Increase in productivity attribute to the specific project.	The crop production benefit due to Kuwajhagar Tank Project will be Rs. 236.38 Lakhs in designed life of 100 years and water level will be increase economy growth of the project. Project also reserves the water for drinking purpose for adjacent villages.
2	Benefit to economy due to the specific project	Kuwajhagar Tank Project will trigger economy development and also influence with irrigation facility to a land of 330 Ha. in the surrounding area.
3	No. of population benefited due to specific project.	Project is located in backward area of the village. After completion of project 330 Ha. Cultivators will be benefited and water level will be increased in surrounding area. This project will also facilitate drinking water supply to adjacent villages.
4	Economic benefit due to of direct and indirect employment due to the project.	The project will be provided direct employment for approximate 10,000 people (24 months) during construction period.
5	Economic benefits due to compensatory afforestation.	An economic benefit due to compensatory afforestation has considered as per the benefit of C.A. guidelines of ministry for N.P.V. estimation.

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KUWAJHAGAR TANK PROJECT

COST BENEFIT ANALYSIS

Total Cost Due to Forest Land

Rs. 176.40 Lakhs

Total Benefit Due to Project

Rs. 236.38 Lakhs

Benefit Cost Ratio of Project :

1.34

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