

Cost-benefit analysis is applicable for Bharari Tank of Umaria District in the state of Madhya Pradesh

BHARARI TANK SCHEME
CATEGORY OF PROPOSAL FOR WHICH
COST-BENEFIT ANALYSIS IS APPLICABLE

S.No.	Nature of Proposal	Applicable Not applicable	Remarks
1	All categories of proposal involving forest land upto 20 hecatares in plains and up to 5 heactares in hills	Not Applicable	-
2	Proposal for defence installation purpose and soil prospecting (prospecting only)	Not applicable	-
3	Habitation, establishment of industrial unit, tourist lodges construction	Not applicable	-
4	All other proposal involving forest land more than 20 hectares in plains and more than 5 hectares in hills including roads, transmission lines, minor, medium and major irrigation projects, hydel projects mining activity, railway lines, location specific installations like micro-wave stations, auto repeater centers, TV lowers etc.	Not Applicable	-

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PARAMETERS FOR EVALUATION OF LOSSES OF FOREST

S. No	Parameters	Irrigation project, quarrying of stones/metals
1	Loss of value of timber, fuel-wood and minor forest produce on an annual basis, including loss of man- hours per annum of people who are deprived livelihood and wages from the harvest of these commodities.	All the reference parameters were qualified in the Net present value (N.P.V) for forest land suggested by central empowered committee in constituted by supreme court of india, As per the forest are classification in central empowered committee report, The forest areas along. The proposed Bharari irrigation tank fall in to III (tropical dry deciduous forest) include N.P.V. Rs. 5.00 lakh per/ha. Hence total cost due to loss of project due to diversion of forest land for the present project total Rs 68.875 lakh.
2	Loss of animal husbandry productivity including loss of fodder.	Qualified in N.P.V. suggested by central empowered committee and including in the N.P.V. as mentioned above.
3	Cost of human resettlement.	Three are no human settlements due to proposal Bharari irrigation tank within forest area. hence there is no forest land for this project.
4	Loss of public facilities and administrative infrastructure (Roads. building. schools, dispensaries, electric lines. railways etc.) on forest land or which would require forest land if these facilities were diverted due to the project.	Three is no loss of public facilities and administrative infrastructure on forest land for this project.
5	Environmental losses (soil erosion, effect on hydrological cycle, wildlife habital . microelimite. upsetting of ecological balance)	Forest land coming under submergence area of Bharari tank project only. No wildlife habitat will be affected due to submergence area of the project impact on microclimate due to tree cutting along the proposed alignment will be compensated with avenue plantation of thrice the number of tree to be cut with indigenous due to project. Hence the project is expected to have only minor impact on environment.
6	Suffering to oustees.	Not applicable
	Total cost due to forest land division for the project	Rs 68.875 lakh.

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PARAMETERS FOR EVALUATION OF BENEFIT, NOTWITHSTANDING LOSS OF FOREST

S.No.	Parameters	Irrigation project
1	Increase productivity attributable to the specific project	The crop production benefit due to Bharari Tank project with total Rs 132.65 lakh in design life of 100 years and water level will be increase in surrounding area. It will be increase economy growth of the project.
2	Benefits to economy	Bharari tank project will Trigger economy development in the project influence area with irrigation facility project will create irrigation facility in 317 ha. At the surrounding area. The farmers will irrigated 317 ha. By gravity flow or canal farmers will also life water by pump with their own arrangement to irrigation 317 hac. Area available in the nearby field of dem.
3	No of population benefited	Since the project location in the back word area of the village. After completion of project 357 cultivators will be befitted and water level will be increase surrounding area.
4	Employment potential	The project will provide direct employment for approximate 300 people during constriction period for 18 month.
5	Cost of acquisition of facility on non-forest land where feasible	No human commodity will affected due to construction of project Hence cost of acquisition of facility on non forest land not applicable.
6	Loss of (a) agricultural & (b) non-forest land wherever feasible	The forest area under the Bharari tank project is already protected entity and hence, there will not be any impact on agriculture and animals husbandry.
7	Cost of rehabilitating the displaced persons as different from compensatory amounts given for displacement	Thear are no human settlement under the proposed irrigation tank within forest area and hence there will not be any displacement of people from forest area for proposed Bharari tank.
8	Cost of supply of free fuel wood to workers residing in or near forest area during the period of construction	The construction labors will be provided with labor camps and labours camp will be located within forest area. The labours camps will be provided with kerosene/LPG facilities and hence will not be any tree cutting for fuel wood.
7	Total benefit due to project not withstanding loss of forest.	Rs 132.65 lacs


Cost Benefit Analysis

Total cost due to forest loss (Rs. In lacs) - 68.875 lacs

Total benefit due to project (Rs. In lacs) - 132.65 lacs

Cost benefit ratio of project (Rs. In lacs) - 0.51

B.C. Ratio - 1.96


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