

SIHUDHI TANK PROJECT

COST BENEFIT ANALYSIS FOR SIHUDHI TANK OF KATNI DISTRICT IN THE STATE OF MADHYA PRADESH

<u>CATEGORY OF PROPOSAL FOR WHICH COST-BENEFIT ANALYSIS IS APPLICABLE</u>			
S.No.	NATURE OF PROPOSAL	APPLICABLE OR NOT APPLICABLE	REMARKS
1	All categories of proposal involving forest land upto 20 Ha in plains and upto 5 Ha in hills.	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 Ha in plains and more than 5 Ha in hills including roads,transmission lines, minor,medium and major projects, mining activity, railway lines, location specific installation like micro wave stations,auto repeater centers, TV tower 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 form the hervest 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 SIHUDHI irrigation tank falls in to IV (tropical thorn forests) include N.P.V Rs. 6.26 lakhs per Ha. Hence total cost due to loss of project due to diversion of forest land for the present project total Rs. 97.03 lakhs.
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.	There are no human settlements due to proposal SIHUDHI irrigation tank within forest area. Hence there is no forest land for this project.
4	Loss of public facilities and administrative infrastructure (Roads building school ,dispensaries, electric lines railways etc.) on forest land or which would require forest land if these facilities were diverted due to the project.	There 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 microelimate upsetting of ecological balance)	Forest land coming under submergence area of SIHUDHI Tank Project only. No wild life habitat will be affected due to submergence area of the Project impact on micro climate due to tree cutting along the proposed alignment will be compensated with avenue plantation of thrice the number of tree to be ut with indigenous due to project. Hence the project is expected to have only minor impact on environment.
6	Suffering to oustees.	Not applicable
7	Total cost due to forest land division for the project.	Rs. 97.03 Lakhs



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PARAMETERS FOR EVALUATION OF BENEFIT, NOT WITHSTANDING LOSSES OF FOREST

S.No.	Parameters	Irrigation Project, Quarrying of stones/metals
1	Increase productivity attributable to the specific project.	The crop production benefit due to SIHUDHI Tank Project with total RS. 646.80 Lakhs 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	SIHUDHI tank project will trigger economy development in the project influence area with irrigation facility. Project will creat irrigation facility in 301 Ha at the surrounding area . The farmers will irrigate 301 Ha by gravity flow or canal . Farmers will also lift water by pump with their own arrangements for irrigation in nearby field available at dam site.
3	No. of population benefitted.	Since the project location in the backward area of the village. After completion of project 280 cultivators will be benefitted and the water level will be increased in surrounding area.
4	Employment Potential	The project will provide direct employment for approximate 500 people during construction period for 24 months.
5	Cost of acquisition facility on non- forest land where feasible.	No human commodity will be affected due to construction of project .Hence cost of rehabilitation (acquisition facility) on non forest land not applicable.
6	Loss of (a) Agriculture & (b) Non forest land wherever feasible.	The forest area under the SIHUDHI Tank project is already protected entity and hence there will not be any impact on agriculture and animals husbandary.
7	Cost of rehabilitating the displaced person as different from compensatory amounts given for displacement.	There 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 SIHUDHI tank.
8	Cost of supply of free fule wood to workes residing in or near forest area during the period of construction.	The construction labours will be provided with labour camps and labours camp will be located within forest area. The labours camps will be provided with kerosine/LPG facilities and hence will not be any tree cutting for fuel wood.
9	Total benefit due to project not withstanding loss of forest.	600.00 Lakhs



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Total cost due to forest loss	-	Rs.97.03 Lakhs
Total Benefit due to project	-	Rs. 600.00 Lakhs
Cost Benefit Ratio of the project	-	0.16
B.C.Ratio	-	6.18



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