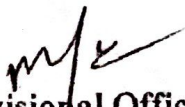


SANGATHA MEDIUM PROJECT
Cost of Benefit Analysis
(As per GOI.MOEP4CC No.7-69/2011 dtd. 01-08-2017)

Table-B : Estimation of forest diversion:

1.	Ecosystem services losses due to proposed forest diversion	Ecosystem services due to diversion by the central powered committee as per the forest classification report of proposed Sangatha medium lift irrigation project is Rs. 12.29 Lakhs/ha. Cost of land = $349 \times 12.29 = 4289.21$ Lakhs
2.	Loss of animal Husbandry productivity including cost of fodder	As per the cost guideline i.e. 10% of N.P.V. 1.23 Lakh per Ha. = $349 \times 1.23 = 429.27$ Lakhs
3.	Cost of human resettlement	There is no human resettlement due to proposed Sangatha medium lift irrigation project. Hence cost of Human resettlement is Nil.
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 construction of Sangatha medium lift irrigation 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. 3.69 Lakhs/Ha. = $349 \times 3.69 = 1287.81$ Lakhs
6.	Cost of suffering to oustees.	Not applicable
7.	Habitat fragmentation cost	Forest land is being acquired for submergence of Sangatha medium lift irrigation project. There is no amount taken under this account
8.	Compensatory afforestation and soil and moisture conservation cost.	The cost @ Rs. 4.00 Lakhs per Ha. is taken for compensatory afforestation and soil moisture conservation. Hence amount will be: = $349 \times 4 = 1396$ Lakhs
9.	Total cost due to forest land diversion	Total cost due to forest land diversion for Sangatha medium lift irrigation project will be: = $4289.21 + 429.27 + 1287.81 + 1396 = 7402.29$ Lakhs


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

1.	Increase in productivity attribute to the specific project	Increase productivity will be 2 or 2.5 times more than before. Due to this project ground water level will increase in surrounding irrigation of 4630 ha. of command area will also increase the productivity. Project also reserves the water for Drinking purpose for block Pichhore
2.	Beefits to economy due to the specific project	Sangatha medium lift irrigation project will trigger economy development about Rs. 4720 Lakh benefitted per year
3.	No. of population benefitted due to specific project	Project is located in backward area of the village. After completion of project approx 15000 Cultivators will be benefitted and water level will be increased in surrounding areal This project will also facilitate drinking water supply to Pichhore.
4.	Economic benefits due to of direct and indirect employment due to the project.	The project will be provided direct employment for approximate 40000 man-day during construction period (24 Months)
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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SANGATHA MEDIUM PROJECT

Benefit cost Ratio of project:- - 1.10

@ 10% interest on capital -


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Table-A: Cases under which a cost-benefit analysis for forest diversion are required.

S. No.	Nature of proposal	Applicable/ not applicable	Remarks
1.	All categories of proposals involving forest land upto 20 hectares in plains and upto 5 hectare in hills	Not Applicable	These proposals may be considered on a case-to-case basis and value judgment.
2.	Proposal for defense installation purposes and oil prospecting (prospecting only)	Not applicable	In view of national Priority accorded to these sectors, the proposals would be critically assessed to help ascertain that the utmost minimum forest land is diverted for non-forest use.
3.	Habitation, establishment of industrial units, tourist lodges complex and other building construction.	Not applicable	These activities being detrimental to protection and conservation of forest, as a matter of policy, such proposals rarely entertained.
4.	All other proposals 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, hydro projects, mining activity, railway lines, location specific installations like micro-wave stations, auto repeater centers, TV towers. etc.	Applicable	These are cases where a cost-benefit analysis is necessary to determine when diverting the forest land to non-forest use in the overall public interest.


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