ROSHIYA TANK PROJECT

COST BENEFIT ANALYSIS

PARAMETER FOR EVALUATION OF LOSSES OF FOREST

S.NO.	PARAMETER	LOSSES OF FOREST	
		IRRIGATION PROJECT	
1,	attributed specified project.	The Roshiya tank project is conceived to irrigation water to 955 Hect. of CCA in village Roshiya, Somala and Rampura of Bhikangaon Tehsil of Khargone District irrigation intensity is will increase. Total amount annual benefits from increased to productivity have been worked out 18200 Qtl. from 7500 Qtl. Therefore total profit in next 100 year would be 43137 lacs	
2	Benefits to economy.	The main objective of Roshiya tank Project is to provide benefit of irrigation water 955 Hect. land, which is mainly owned by Tribals and after completion assured water will be given to boost up their economy.	
3	Number of population benefitted	The Roshiya tank project is conceived to irrigation water to 955 Hect. of CCA in village Roshiya, Somala and Rampura of Bhikangaon Tehsil of District Khargone will be benefitted by this scheme by way of irrigation so, the total cultivators benefitted through irrigation shall be nearly 355 Nos.	
4	Employment Potential	During the construction stage temporary employment to 54600 man days and permanent employment 10 persons shall be generated for 24 months.	
5	Cost of acquisition facility on non-forest land wherever feasible	No human commodity will affected due to construction of project.	
	Loss of () Agriculture (b) Animal Husbandry production due to diversion.	No loss of agriculture envisaged. In fact present object has been proposed for the improvement of agriculture in this area. No loss in the animal husbandry production.	
	Cost of rehabilitating the displacement person has different from.	Not Applicable Based on survey it was found that there no displacement due to project and as such there is no resettlement issue related to project.	
1	Cost of supply of free fuel would to workers residing in are near forest area during period of construction.	The labour camps will be facilitated with kerosene/L.P.G. facilities and hence no free cutting shall be there for fuel wood.	
9	Total benefit due to project.	Rs. 431.37 Yearly in Lacs. Rs. 43137 Lacs after 100 Years.	

Cost Benefits Analysis :-

- (i) Total Benefit due to Project (Rs. 431.37 Lacs)
- (ii) Total Annual Cost (Expenditure 43137 Lacs)
- (iii) Benefit Cost Ratio 2.14
- (iv) Cost BenefitRatio 1.17

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Cost Benefit Analysis for

ROSHIYA TANK PROJECT

KHARGONE

On the basis of Guidelines for forest Land Diversion 2018 Table A Cases Under Which A Cost Benefit Analysis for Forest Diversion Area Required

L	Nature of Proposal	Applicable/	
0.		Not Applicable	Remarks
ŀ	All categories of proposal involving forest	Not applicable	,
ı	land upto 20 Ha. In plains and upto 5 Ha. in		
ı	hills.	*	
6	Proposal for defense installation purposes	Not applicable	
٢	and oil prospecting (prospecting only)		7 .
H	Habitation, establishment of industrial units,	Not applicable	
	tourist lodges complex and other building		
	contruction.		
П	All other proposal involving forest land more	Applicable	These are cases where a cost
	than 20 ha. in plain and more than 5 ha. in	***	benefits analysis is necessary to
	hills incluing roads, transmission lines,		determine when diverting the forest
	minor, medium and major irrigation project,		land to non-forest use of overall
	hydro projects, mining activity, railway lines,		public interest. The Roshiya Tank
•	location specific installations like micro-wave		Project falls under this category.
	station, auto repeater centers, TV towers		
	etc.		

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Table-B Estimation of Cost of Forest Diversion

S.No.	Parameters	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, Roshiya Tank Project is Rs. 6-26 Lakhs/Ha. Cost of Land = 39.715 x 6.26 = 248.61 Lakhs
2	Loss of animal husbandry productivity including cast of fodder.	Eco Class III consisting of tropical dry deciduous. As per the cost benefit guideline i.e. 10% of N.P.V. 0.626 Lkha per Ha. = 39.715 x 0.626 = 24.86 Lakhs
3	Cost Human Resettlement	There is no human settlement due to proposed Roshiya Tank Project. Hance cast 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 Roshiya Tank Project. No cost has been added on this account.
5	Possession value of forest land diverted	The possession value of forest land diverted in taken 30% of N.P.V. due to loss of forest i.e. Rs. 1.878 Lakhs/Ha. =39.715 x 1.878 = 74.58
6	Cost of suffering to oustees	No Applicable.
7	Habitat fragmentation cost	Forest land is being acquired for sumergence of Roshiya Tank Project. There is no amount is taken under this account.
8	Compensatory afforestation and soil and moisture conservation cost.	
9	Total Cost due to forest land diversion	Total Cost due to forest land diversion for Roshiya Tank Project will be: = 248.61+ 24.86 + 74.58 + 251.39 = 599.44 Lakhs.

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

S.No.	Parameters	
3.140.	Increase in productivity attribute to the specific	Remarks
	project.	The crop production benefit due to
		Roshiya Tank Project will be Rs.
		43137 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
2	Benefit to economy due to the specific project	villages.
	s and specific project	Roshiya Tank Project will trigger
		economy development and also
		influence with irrigation facility to a
		land of 955 Ha. in the surrounding
		area. Irrigation is proposed by gravity
3	No. of population benefited due to specific	flow system.
	project due to specific	The second of th
		the village. After completion of project
		955 Ha. Cultivators will be benefited
		and water level will be increased in
		surrounding area. This project will
		also facilitate drinking water supply to
	Economic benefit due to of direct and indirect	adjacent villages.
4	employment due to the project	project will be provided direct
	employment due to the project	employment for approximate 4500
		people (12 months) during
		construction period.
5	Economic benefit due to compensatory	An economic benefit due to
	afforestation.	compensatory afforestation has
		considered as per the benefit of C.A.
		guideline of ministry for N.P.V.
		estimation.

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ROSHIYA TANK PROJECT

COST BENEFIT ANALYSIS

Total Cost Due to Forest Land

Rs. 599.44 Lakhs.

Total Benefit Due to Project

: Rs. 43137 Lakhs.

Benefit Ratio of Project

1.17

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