Cost Benefit Analysis MAA RATANGARH MULTIPURPOSE PROJECT On the basis of Guidelines for forest land diversion 2017

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

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

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Table- B Estimation of cost of Forest Diversion

No.	Parameters Parameters Parameters	Remarks
1	Ecosystem services losses due to Proposed forest diversion.	Ecosystem service due to diversion of forest land suggested by the Central Powered Committee as per the forest classification report of proposed Maa Ratangarh Multipurpose Project is Rs 9.58 Lakh/Ha. Cost of Land = 1305.142x9.58 = 12503.26 Lakh
2	Loss of animal husbandry productivity including cost of fodder	As per the cost benefits guideline i.e. 10 % of N.P.V. 0.958 Lakh per Ha. = 1305.142X0.958 = 1250.33 Lakh
3	Cost of human resettlement	There is no loss of public facilities and administrative infrastructures of forest land due to construction of Maa Ratangarh Multipurpose Project, no cost has been added on this account.
4	Loss of Public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric, railways etc.) on forest land which would required 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 Maa Ratangarh Multipurpose 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. 2.874 lakh/Ha. =1305.142X2.874 = 3750.98
7	Cost of Suffering to oustees Habital Fragmentation Cost	Not Applicable Forest land is being acquired for construction of dam, submergence & spill channel of Maa Ratangarh Multipurpose Irrigation Project. There is no amount is taken under this account.
8	Compensatory afforestation and soil & moisture conservation cost	The cost @ Rs 4.0 lakh per Ha. Is taken for compensatory afforestation and soil moisture conservation. Hence amount will be = 1305.142X4.00 = 5220.57 Lakh
9	Total cost due to forest land diversion	Total cost due to forest land diversion for Maa Ratangarh Multipurpose Project will be : = 12503.26 + 1250.33 + 3750.98+ 5220.57 = Rs 22725.14 Lakh

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Table - C Existing guidelines for estimation benefits of Forest diversion in CBA

S.No.	Parameters	Remarks	
1	Increase in productory	The crop production benefit due to Maa Ratangarh	
	/attitude to the specific project	Multipurpose Project will be 41036.84 lakh in	
		designed life of 100 years. Water level will be	
		increased and economic growth of command area	
		will be boosted. Project also reserves water for	
		Drinking purpose of Seondha town and adjacent	
		villages.	
2	Benefits to Economy due to	Maa Ratangarh Multipurpose Project will trigger	
	the specific project	economic development with irrigation facility to a land	
		of 78484 ha. In the command area. Irrigation is	
		proposed by pressurized pipe system.	
3	No. of population benefitted	After completion of project 120000 villagers will be	
	due to specific project	benefitted.	
4	Economic benefits due to	The project will provide direct and indirect	
	direct and indirect	employment for approximate 50000 people due to the	
	employment due to the	project.	
	project.		
5	Economic benefits due to	Economic benefit due to compensatory afforestation	
	compensatory afforestation	has been considered as per the benefit of C.A.	
		guideline of Ministry for N.P.V. estimation.	

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COST BENEFIT ANALYSIS

Total cost due to forest land (Rs. Lakh) : 22725.14

Total benefit due to the project (Rs. Lakh) : 41036.84

Benefit Ratio of project : 1.81

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