

HATHIADEH MEDIUM IRRIGATION PROJECT

TEHSIL-KISHANGANJ

DISTRICT-BARAN

COST-BENEFIT ANALYSIS

S.NO.	PARAMETERS	Rs. (In Lakh)
1	Estimation of cost of forest diversion (Including Construction Cost) as per Table B	34411.52
2	Estimating Benefits of forest diversion as per Table-C	499063.00
	Ratio of Benefit/Cost	14.50 ✓
<p>Note:- Therefore construction of Hathiadeh medium irrigation project is economically viable and socially beneficial.</p>		



Executive Engineer
Water Resources Division III Baran


Table-B

HATHIADEH MEDIUM IRRIGATION PROJECT
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Estimation of cost of forest diversion

S.No.	Parameters	Remarks	Amount (In Lakh)
1	Ecosystem services losses due to proposed forest diversion	N.P.V. amount to be disposed towards forest land diversion of 286.47 Ha. @ 9.5778 Lakh/Ha.	2743.75
2	Loss of animal husbandry productivity, including loss of fodder	10 % of N.P.V. cost i.e. 0.95778 Lakh/Ha. (10% of 9.5778) For 286.47 Ha.	274.37
3	Cost of Human Resettlement	As per R&R plan	3197.68
4	Loss of public facilities and administrative infrastructures (Roads, buildings, schools, dispensaries, electric lines, railway lines etc.) on forest land which would require forest land if these facilities were diverted due to the project	Cost of road for 3 Kms.	500.00
		cost of LT lines in 3 Kms.	500.00
		Cost of 1 no. of Primary School	15.00
		Cost of other public facilities and administrative offices	20.00
5	Possession value of forest land diverted	50% of N.P.V. amount to be disposed towards forest land of 286.47 Ha. @ 9.5778 Lakh/Ha.	823.12
6	Cost of suffering to oustees	150% of R&R Plan (1.5*3197.68)	4796.52
7	Habitat Fragmentation Cost	Cost due to Habitat fragmentation is pegged at 1.98 lakh/Ha. Forest land (286.47@ 1.98Lakh/Ha.)	1371.87
8	Compensatory afforestation and soil and moisture conservation cost	Compensatory Afforestation in Diverted Land of 286.50 Ha. @ 1.98 Lakh/Ha.	567.21
9	Construction Cost of Project		19602.00
		Total	34411.52

Lakh


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Estimation of benefit of forest diversion

S.No.	Parameters	Remarks	Amount (In Lakh)
1	Increase in Productivity attribute to the specific project	This project will provide irrigation facility in G.C.A. of 10091 Ha. And CCA 6885 Ha. of land Benefits after Introduction of Canal System For 100 Yrs.(As resevoir Life will be 100 yrs.) @ 4990.63 Lakh/annum (This is taken as per B.C. Ratio approved by agronomist at IMTI Kota)	499063.00
2	Benefits to Economy due to the specific project	1. Population about 90,000 of 45 Villages will be benefitted from this project.	
		2. Employment will be generated to landless people of 45 No. Villages in Command area of project.	
		3. Direct empolyment to labour during construction period of Tehsil-Kishanganj, District-Baran.	
3	No. of population benefitted due to specific project	Population about 90,000 of 45 Villages will be benefitted from this project of Tehsil-Kishanganj, District-Baran	
4	Economic benefits due to of Direct and Indirect Employment due to the project	Direct employment will be generated during construction period and Indirect employment in command area of project in 45 nos. of villages in tehsil-Kishanganj District-Baran	
5	Economic benefits due to Compensatory afforestation	The compensatory afforestation will develop new forest which will be helpful to Environment as well as animals	
		Total	499063.00
			Lakh



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