HIRAN MEDIUM IRRIGATION PROJECT

Cost of Benefit Analysis
(As per GOLMOEP4CC No. 7-69/2011 dtd 01-08-2018)
Table - B- Estimation of forest diversion

1	Ecosystem Services lesser due to proposed forest diversion	Ecosystem services due to diversion by the central powered committee as per the forest classification report of proposed (Hiran Medium Irrigation Project is Rs. 6.29 Lakhs/ Ha. Cost Of land 54.87X6.29 = 345.13 Lakhs
2	Loss of animal Husbandry productivity including cost of fodder	As per the cost guideline i.e. 10% of N.P.V. 0.626 Lakh per Ha. 54.87 X 0.626 = 34.35
3	Cost of human resettlement	There is no human resettlement due to proposed Hiran Medium 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 to construction of Hiran Medium 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. 1.878 Lakh/ HA 54.87X1.878 = 103.05
6	Cost of suffering to oustees	Not Applicable
7	Hitatal Fragmentation Cost	Forest land is being acquired for submergence of Hiran Medium 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 : 54.87X4 = 219.48
9	Total Cost due to forest land diversion	Total cost due to forest land diversion for Hiran Medium Irrigation Project will be : 345.13+34.35+103.05+219.48 = 702.01 Lakhs

Soamya Nigam
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Water Resources Sub Division No. 3
Kundam Jabalpur

(R.S. Sharma)
Executive Engineer
Hiran Water Resources Division
Jabalpur

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

1	Increase in productivity attribute to the specific project	The crop production benefit due to Hiran Medium Irrigation Project will be Rs. 4781.86 Lakhs in designed life of 100 year and ground water level will increase economy growth of the project. Project Serves the water for irrigation purpose to Jabalpur and Katni district .
2	Benefits to economy due to the specific project	Hiran Medium Irrigation Project will trigger economy development and also influence with irrigation facility to a land of 8125 Ha. In the surrounding area, Irrigation is proposed by pressurized pipe hose system.
3	No. of population benefited due to specific project	Project is located in backward area of the village after completion of project no. of cultivators around 6000 will be benefitted and water level will be increased in surrounding area.
4	Economic benefits due to of direct and indirect employment due to the project	The project will be provided direct employment for approximate 70,000 man-day during construction period.(24 Month)
5	Economic benefits due to compensatory affectation	An economic benefits due to of compensatory afforestataion has considered as per the benefit of C.A. guidelines of ministry for N.P.V. estimation.

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HIRAN MEDIUM IRRIGATION PROJECT

Benefit to cost Analysis

Total cost due to forest land	-	702.01
Total benefit due to project	-	4781.66
Benefit cost ration of project	-	
@ 10% Interest on Capital	-	1.69
@ 5% Interest on Capital	-	2.83

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