

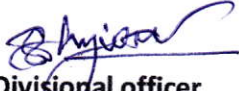
SARKULA MEDIUM PROJECT

Cost of Benefit Analysis

(as per GOI.MOEP4CC No. 7-69/2011 dtd.01.08.2017)

Table-B Estimation of diversion. forest

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 Sarkula medium lift irrigation project is Rs. 6.36 Lakhs/Ha. Cost of land = 126.50×6.36 = Rs. 804.54 Lakhs
2.	Loss of animal Husbandry productivity including cost of fodder.	As per the cost guideline i.e. 10% N.P.V. 0.636 Lakhs per H.a. = 126.50×0.636 = Rs. 80.45 Lakh.
3.	Cost of human resettlement	There is no human resettlement due to proposed Sarkula medium lift irrigation project. Hence cost of Human resettlement if Nil.
4.	Loss of public facilities and administrative infrastructure (Road, building, school, 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 infrastructure of forest land due to construction of Sarkula 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 N.P.V. due to loss of forest i.e. Rs. 1.908 Lakhs/Ha = 126.50×1.908 = Rs. 241.36 Lakhs.
6.	Cost of suffering to oustees.	Not applicable.
7.	Habitat fragmentation cost.	Forest land if being acquired for submergence of Sarkula 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 and moisture conservation. Hence amount will be = 126.50×4.00 = Rs. 506.00 Lakhs.
9.	Total Cost due to forest land diversion	Total Cost due to forest land diversion for Sarkula medium lift irrigation project will be = $804.54 + 80.45 + 241.36 + 506.00$ = 1632.35 Lakhs.


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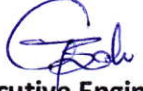

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Table - C Existing guidelines for estimating benefits of forest diversion in CBA

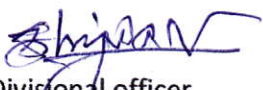
1.	Increase in productivity attribute to the specific project.	Increase productivity will be 2 or 2.5 times more then before. Due to this project ground water level will increase in surrounding. irrigation of 6500 Ha. of command area will also increase the productivity. Project also reserve the water for Drinking purpose for block Pohari.
2.	Benefits to economy due to the specific project.	Sarkula medium lift irrigation project will be trigger economy development about Rs. 3392.00 Lakhs 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 area. This project will also facilitate drinking water supply to Pohari.
4.	Economic benefits due to of direct and indirect employment due to the project.	The project will be provided direct employment for approximate 27000 man-day during cunstruction period. (42 Months)
5.	Economic benefits due to compensatory afforestation	An economics benefits due to compenstory has considered as per the benefit of C.A. guidelines of ministry for N.P.V. estimation.


Cost Benefit Analysis :-

Total cost due to forest loss (Rs. In lacs) -1632.35

Total benefit due to Project (Rs. In lacs) -2705.50

Cost benefit tatio -1.65


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