



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

S. No.	Parameters	Remark
1	Increase in productivity attribute to the specific project	The crop production benefit due to <b>Kaliya kho Tank Project</b> Minor Irrigation Project will be Rs. 294.12 Lakhs Increase in water level of the vicinity area will increase economic growth of the nearby Villages.
2	Benefits to economy due to the specific project	<b>Kaliya kho Tank Project</b> Minor Irrigation Project will trigger economic development and also influence with irrigation facility to a land of 190 Ha. in the surrounding area. Irrigation is proposed by Lift.
3	No. of population benefited due to specific project	Project is located in back ward area of the village. After completion of project 183 No. cultivators will be benefited and ground water level will be increased in surround area. This project will also facilitate drinking water to adjacent villages.
4	Economic benefits due to of direct and indirect employment due to the project	The project will provide direct employment for approximate 2850 people (12 month) during its construction period.
5	Economic benefits due to compensatory afforestation	An economic benefit due to compensatory afforestation has considered as per the benefit of C.A. guidelines of Ministry for N.P.V. estimation.

  
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**Table -B Estimation of Cost of Forest Diversion**

S. No	Parameters	Remark
1	Ecosystem service losses due to proposed forest diversion.	Ecosystem services due to diversion of forest land suggested by the forest classification report of proposed, <b>Kaliya kho Tank Project</b> is Rs. 6.26 lakhs / Ha. Cost of Land = 22.26 Ha. x 6.26 lakhs / Ha.= 139.34 lakhs Eco class III consisting of tropical dry Deciduous forest.
2	Loss of animal husbandry productivity including cost of fodder.	As per the cost benefit guideline i.e. 10 % of N.P.V. 6.26 Lakh per Ha. = 22.26 x 0.626 = 13.93 Lakh
3	Cost Human Resettlement	There is no human settlement due to proposed <b>Kaliya kho Tank Project</b> 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 <b>Kaliya kho Tank Project</b> . 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 lakhs / Ha. = 22.26 x 1.878 = 41.80 Lakhs
6	Cost of suffering to oustees	No Applicable As there are no oustees.
7	Habitat fragmentation cost	Forest land is being acquired for submergence of <b>Kaliya kho Tank Project</b> . There is no amount taken under this account.
8	Compensatory afforestation and soil and moisture conservation cost.	The cost @ Rs. 4.15 Lakhs per Ha. is taken for compensatory afforestation and soil moisture conservation. Hence amount will be = 22.26 x 4.15 = 92.37 Lakhs
9	Total cost due to forest land diversion.	Total cost due to forest land diversion for <b>Kaliya kho Tank Project</b> will be = 139.34+13.93+41.80+92.37 = 287.44 Lakhs

## Cost Benefit Analysis for

Kaliya Kho Tank Project  
RAMPURA (NEEMUCH)

**Table -A Cases Uner Which A Cost Benefit Analysis for Forest Diversion Area Required**

S. No.	Parameters	Applicable/ Not Applicable	Remark
1	All categories of proposal involving forest land upto 7.98 Ha. in plains and upto 30 Ha. in hills.	Not Applicable	
2	Proposal for defense installation purpose and oil prospecting (prospecting only)	Not Applicable	
3	Habitation, establishment of industrial units, tourist lodges complex and other building construction.	Not Applicable	
4	All other proposal involving forest land more than 7.98 Ha. in plain and more than 30 Ha. in hills including roads, transmission lines, minor, medium and major irrigation project, hydro projects, mining activity, railway lines, location specific installation like micro-wave station, auto repeater centers, TV towers etc.	Applicable	Proposed Kaliya kho Tank Project is a minor irrigation project. Involving 22.26 Ha. forest land. Thus cost benefit analysis is necessary to determine as diversion of affecting forest land to non-forest use is required for use of over all public interest.

  
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**KALIYA KHO TANK PROJECT**  
**COST BENEFIT ANALYSIS**

Total Cost Due to	:	Rs. 121.51 Lakhs
Total Benefit Due to Project	:	Rs. 287.44 Lakhs
Benefit Ratio of Project	:	2.36

  
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