

COST BENEFIT ANALYSIS

FIROZABAD DISTRICT

A. Parameters for Evaluation of Loss of Forests

Sr. No.	Parameters	Description
1	Loss of value of timber, fuel wood and minor forest produce on an annual basis including loss of man hours per annum of people who derived livelihood and wages from the harvest of these commodities	There is no loss of timber, fuel wood and minor forest produce on an annual basis. No livelihood of people affected.
2	Loss of Animal Husbandry Productivity, including loss of fodder.	There is no loss of animal husbandry in the protected forest land.
3	Cost of human resettlement	There will be no human resettlement in the forest land.
4	Loss of public facilities and administrative infrastructure (Roads, building, school, dispensaries, electric lines, railways, etc.) on forest land, or which would require forest land if these facilities were diverted due to the project.	No Public facilities and administration infrastructures will be diverted on forest land due to project.
5	Environmental losses Soil erosion, effect on hydrological cycle, wild life habitat, micro climate upsetting of ecological balance.	Environmental Loss :- Environmental value of 1 hectare of forest land with density 1.0 is estimated to be = 126.74 Lakhs Density of forest area to be diverted = 0.6, value per hectare = Rs. 76.044 Lakhs. So, Environmental value of 26.143158 hectare of forest area = Rs. 19.880 Crores
6	Suffering to outers	Nil


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B. Parameter for evaluation of Benefit, notwithstanding Loss of Forests

Sr. No.	Parameters	Description
1	Increase in productivity attributable to the specific project.	Due to up gradation of the existing road there will be overall development of the project area.
2	Benefits of economy.	Improved access to tourist places, higher education facilities & modern health facilities, Strengthening of both rural & urban economies which in turn will improve economic scenario of the state and country. Improved road connectivity helps in better implementation and management of government schemes.
3	No. of population benefited.	Population of the surrounding area. Approx 1,50,000.00 man days of temporary employment will be generated.
4	Employment potential.	With improvement in economy more generation of employment opportunities. The construction will require approximately 200 workers/operators for a period of about 24 months. In addition, future induced development of the area would result in industrialization of the region and would generate more opportunities of employment for the people of the region. Approx 1,460 man days of temporary employment will be generated.
5	Cost of acquisition of facility on non-forest land wherever feasible.	Nil
6	Loss of (a) agricultural & (b) Animal Husbandry Production due to diversion of forest land.	Nil


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COST BENEFIT RATIO

1- PROJECT COST

- (A) Project cost including operation & maintenances = 19297.65 Lakhs
(B) Environmental Loss = 19.880 Crores
Total Cost = 212.8565 Crores

2- PROJECT BENEFITS

- (A) Motor vehicle operating cost saving = 71.9831 Crores.
(B) Motor vehicle value of time saving and economic development = 68.5176 Crores.
(C) Non-motor vehicle operating & time cost saving = 0
Total Benefits (A+B+C) = 140.5007 Crores

BENEFIT COST RATIO :- (Total Cost) / (Total Benefit)
 $212.8565 / 140.5007 = 1.515 > 1$

HENCE, PROJECT IS FOUND VIABLE.


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