

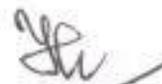
**COST BENEFIT ANALYSIS - BIJNOR-NOORPUR-CHAJLET ROAD CH. 0.00
36.00 (New CH. 6.725-42.725) WIDENING & STRENGTHENING**

Under Bijnor Division

(a) Parameter for Evaluation of Loss of Forests

S.No.	Parameters	Descriptions
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.	Loss of animal husbandry in the protected forest land would be negligible.
3.	cost of human resettlement	There will be no human resettlement in the forest land.
4.	Loss of public facilities and administrative infrastructure (Roads, buildings, school, dispensaries, electronic 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, wildlife habitat, microclimate upsetting of ecological balance)	Environment Loss: Environmental value of 1 hectare of forest land with density 1.0 is estimated to be = 126.74 Lakh Density of forest area to be diverted = 0.1, value per hectare = Rs. 16.832 lakhs So, Environmental value of 27.23 hectare of forest area = Rs. 4.58 Crores.
6.	Suffering to oustees	Nil


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(b) PARAMETERS FOR EVALUATION OF BENEFIT, NOTWITHSTANDING LOSS OF FORESTS

S.No.	Parameters	Descriptions
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	Benefity 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 scenarion of the state and country. Improved road connectivity helps in better implementation and management of government schemes.
3	No.of popouation benefited	Polulation of the surrounding area. Approx 100,000 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 125 workers/ operators for a period of about 18 months. In addition, future induced development of the area would result in industrilization of the region and would generate more oppourtunities of employment for the people of the region. Approx 100000 man days of temporary employment will be generated.
5	Cost of acquisition of facillty 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 = 200.80 Crores

(B) Environmental Loss = 4.58 Cores

Total Cost = 205.38 Crores,

2. PROJECT BENEFITS

(A) Motor vehicle operating cost saving = 107.08

(B) Motor vehicle value of time saving and economic development = 391.98

(C) Non-motor vehicle operating & time cost saving = 0.00

Total Benefits (A+B+C) = 107.08+391.98+0

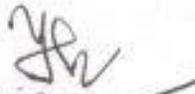
= 499.06

BENEFIT COST RATIO : (Total Benefit) / (Total Cost)

499.06/205.38 = 2.43 > 1

HENCE PROJECT IS FOUND VIABLE.


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