

Cost of forest diversion for Pune Ring Road Dist.Pune Forest Area : 48.55 Ha

Evaluation of forest losses as per parameters in table-B

New Delhi Letter No. 7-69/2011-FC(pt),Dated 01st August,2017

Parameter-1 Ecosystem services losses due to proposed forest diversion

Total forest land to be diverted is 48.5491 ha. following are the calculations are made on the basis of NPV Guidelines issued by Government of India, Ministry of Environment, Forest and Climate Change, (Forest Conservation Division), New Delhi vide no. File No.5-3/2011-FC(Vol-I)dated 6th January 2022. This cost comes at Rs. 1887.25 Lakhs

Particulars	Area		NPV Rate	Amount
Road	48.55	x	939000	45588450

= 45588450

Rs. 455.88 Lakhs

Parameter-2 Loss of animal husbandry productivity, including loss of fodder

Estimated loss of animal husbandry productivity due to diversion of 239.77 ha. of forest land @ 10% of NPV which will be Rs 196.07 Lakh

10% x 45588450 = 4558845

RS. 45.58 Lakhs

Parameter-3 Cost of human resettlement

no Cost of Rehabilitation is involved as no Household rehabilitation

Loss of human settlement = 0 Lakhs

Parameter-4 Loss of public facilities and administrative infrastructure (Roads, building,school,dispensaries,electric lines,railways,etc) on forest land ,which would require forest land if these facilities were diverted due to the project.

0.00 Lakhs

Parameter-5 possession value of forest land diverted.

30% of NPV = 232 Lakhs

30% x 455.88 = 136.76 Lakhs

Parameter-6 Cost of suffering to oustees : NIL

Parameter-7 Habitat fragmentation cost

This project involves forest land along river bank,nalla bank which is habitat for various wild animals and birds found in that area . But there is no Tiger project , no National park , no Wildlife sanctuary and no ecosensitive zone of protected area . habitat fragmentation cost calculated as 50% of value of maximum Net Present value realized for this project and which comes out to Rs. 387.375 Lakh

50% x 455.88 = 227.94 Lakhs

Parameter-8 Compensatory afforestation and soil & moisture conservation cost

As the project area is 239.77 ha and this being a State Government project the compensatory afforestation will be taken on suitable land at Tulapur Tal. Haveli Dist Pune Gut No. 64 in possession of Revenue Department I,e 48.55 ha of land . This compensatory Afforestation will be raised and maintained for period of 10 years at the cost of User Agency calculated at prevailing wage rates of forest Department by Dy Conservator of Forests, Nanded Forest Division, Nanded and which comes out to Rs. 2843.20 Lakhs

48.55 x 14539791 = 705906866

Rs 70.59 Lakhs

Evaluation of benefits from the project as per parameters in table-C

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The to and fro highway traffic plying between Mumbai to Bangalore will use the proposed ring road and ease the intensity of traffic on the present Mumbai-Bangalore bypass. The fringe traffic of Pune City will also be greatly benefitted as they will not have to enter the city and can avoid the traffic snarls. It is also proposed to develop housing and other infrastructure along the ring road and provide connectivity to people there. It will decentralize the development of city. The concept of “walk to work” wherein working stations would be near residential areas, will ensure people do not have to spend long hours commuting from residence to office. Proposed ring road is expected to be used by nearly 10

Parameter-1 lakhs vehicles. The travel time will be reduced by 15 minutes minimum and over 30 minutes during peak congestion.

Benefits to economy due to specific project. The savings in Vehicle operating cost (VOC) due to reduction in travel time will be approx. Rs. 15000 lacs per year. Saving in VOC for improved facility will be approx.

Rs. 25000 lacs per year. Total saving in VOC per year is Rs. 40000 lacs. Saving will go on increasing with increase

Parameter-2 in traffic in subsequent years.

Rs. 400 Lakhs

Parameter-3 Number of population benefitted due to specific project. Nil

Parameter-4 Economic benefit due to of direct and indirect employment due to the project.

24.7 Cr

= 247 Lakhs

Parameter-5 Economic benefits due to Compensatory afforestation.

Compensatory afforestation in land transferred to Forest Department – 48.55 Ha. NPV = 48.55 x 9,39,000 = Rs. 3,54,00,300/

2843.2

=

354 lakhs

CALCULATIONS OF BENEFIT COST RATIO

Total cost (as per table -B Calculation) = Rs 936.75 Lakhs

Total Benefits (as per table -C Calculation) = Rs 1001.00 Lakhs

Hence, Benefit/Cost ratio = 1.06

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