

**COST BENEFITS ANALYSIS IN ACCORDANCE WITH
GOI FC GUIDLINES NO 7- 69/2011-FC DATED 01-08-2017**

Name of Project: Additional forest land diversion required for Eastern Yamuna canal falling in Shamli District for **"Four laning of Panipat (Start from junction with Existing Km of NH-44 at Panipat) -to Shamli (End at its junction with Existing 39+300 of SH- 12) of NH-709AD in the State of Uttar Pradesh Package -1(0.000 to 35.580)"**.

Nature of Proposal: Additional forest land diversion required for Eastern Yamuna canal falling in Shamli District for **"Four laning of Panipat (Start from junction with Existing Km of NH-44 at Panipat) -to Shamli (End at its junction with Existing 39+300 of SH- 12) of NH-709AD in the State of Uttar Pradesh Package - 1(0.000 to 35.580)"** in favor of the Project Director, Project Implementation Unit, Baghpat - Uttar Pradesh.

Total Design Length of the Project Road: 35.580 Kms

Project Highway comprises to section of **Panipat (Start from junction with Existing Km of NH-44 at Panipat) -to Shamli (End at its junction with Existing 39+300 of SH- 12) of NH-709AD in the State of Uttar Pradesh Package -1(0.000 to 35.580)"** In order to widening and upgradation of major Bridge at design Chainage 34.500 will be performed on adjoining to the Proposed road .Road Eastern Yamuna Canal side plantation along the project road which is declared as Protected Forest Land will be impacted due to the proposed widening work of Bridge. No other alternative exist for proposed widening.

Number of District through which project road traverses- 1 No i.e Panipat and Shamli District.

Total forest area proposed for diversion: 0.111 ha

Purpose: The cost Benefit Analysis is being undertaken as the required forest land is > 20 hectre for proposed diversion of forest land being affected due to widening of existing road for above said project.

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शामली वन प्रभाग
शामली

सजय कुमार मिश्रा
परियोजना निदेशक
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Kumar Mishra
Project Director
- Baghpat

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Guidelines for conducting cost-benefit analysis for projects involving forest diversion

(i) While considering proposal for diversion of forest land for non forestry use, it is essential that ecological and environmental losses and eco economic distress caused to the people who are displaced are weighted against economic and social gains.

(ii) Whenever the forest land is involved in the development projects, the cost of ecosystem services and fragmentation of habitat of wildlife and economic distress caused to the people dependent on forests and the cost of settlement of people dependent on forest should also be added as the cost of forest diversion in addition to the standard project cost which would have been incurred by the user agencies without involvement of forest land while conducting the cost benefit analysis of the project. Similarly the benefits from the project accruing due to diversion of forest land and used in the project should also be accounted for in the benefits component in addition to the standard benefits of the project which would have been accrued without involvement of forest land while conducting the cost benefit analysis and determining the benefit and cost ratio (BC ratio).

(iii) The cost of Compensatory afforestation and its maintenance in future and soil & moisture conservation at present discounted value and future benefits from such compensatory forestation accruing over next 50 years monetized and discounted to the present value should be included as cost and benefits respectively of compensatory afforestation while conducting the cost benefit analysis and determining the benefit and cost ratio (BC ratio).

(iv) **Table A** list the details the types of projects involving forest land for which cost benefit analysis will be required, **Table-B** Lists the parameters according to which the cost aspect of forest land diverted for the development projects will be determined, while **Table C** lists the parameters for assessing the benefits accruing to the project using forest land.

(v) A cost benefits analysis as above should be accompany the proposals sent to central Government for forest clearance under the Forest Conservation Act.

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सजय कुमार मिश्रा
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Sanjay Kumar Mishra
Director
- Baghpat

Table A: Cases under which a Cost -benefit analysis for forest diversion are required

Since the proposal is for diversion of forest land measuring less than 20 hectre in plain area for the road project cost benefit analysis report is not applicable

Place: Baghpat

Sanjay Kumar Mishra
Project Director, PIU, NHAI,
Baghpat, Uttar Pradesh
Signature, Seal and Date

Director
Baghpat