

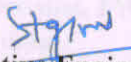
Name of the Project:- Widening & Strengthening of meerut badaun road (two lane to four lane) Km 142.600 to 162.000

Forest Proposal No.: FP/UP/ROAD 23576/2017

### COST-BENEFIT ANALYSIS

Annexure (A)  
District:- Sambhal

Sl. No.	Particulars	Amount (Rs. Crores)	Remark
1	Total cost (Investment Incurred)		
(A)	Construction Cost of Project	87.95	
(B)	N.P.V. Amount to be deposited @ 6.26 Lakh/Hactare (23.28) =	1.46	
(C)	Substitute/Alternate Plantation Cost to be deposited:- = 40.04 Lacs	0.40	
	<b>Total</b>	<b>89.81</b>	
2	Benefits:- Benefits from (Taking Age of Road As 15 Years)	15 year	
(A)	Economic Benefits- Market Development.	Saving in vehicle operating costs Benefits to trade epecially in movement of perishable goods, Reduced maintenance costs, All round development of areas.	
(B)	Direct Employment of Labours.	About 100 employee will get direct employment for duration of 2 year.	
(C)	Employment Genration Due to other Activities	Petty contracts to local people, vehical will also generate. Local marketing activities will develop.	
Note :-	Therefore construction is Economically Viable and socially beneficial.	Yes	

  
Executive Engineer  
Provincial Division, PWD,  
Sambhal.

  
भागीय वनाधिकारी  
सम्भल वन प्रभाग  
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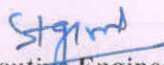
### COST-BENEFIT ANALYSIS

Parameters For Evaluation of loss of Forests

Annexure (B)

Sl. No	Particulars	Details
1	Loss of value of timber, fuelwood and minor forest produce on an annual basis, including loss of man hours per annum of people who derived livelihood and wage from the harvest of these commodities	Approximately Rs. 6.00 Lacs per hectare for 23.28 hactare @ Rs. 6.00 Lacs 139.68 Lacs Say Rs. 1.40 Crore
2	Loss of Animals husbandary	NIL
3	Cost of human resettlement	NIL
4	Loss of public facilities and administrative infrastucture (Roads, Buildings, Schools, dispensaries, Electric Lines, Railway etc.) on forest land or which would require forest land is these facilities were diverted due to the project.	No loss for Roads, Buildings, Schools, dispensaries and Railway line, Electric Lines will be shifted at the end of ROW.
5	Environmental losses; (Soil erosion, effect on hydrological cycle, wildlife habitat, microclimate upsetting of ecological balance.	Density of forest of Sambhal (23.28 hect. Area) is 0.3 The environment loss of density 1 is 126.74 lacs per hect. As per forest (conservation act.) for 50 year. So environment loss for 50 years for Sambhal (23.28 hect. Area) is $0.3 \times 23.28 \times 126.74 = 885.15$ Lacs Say 8.85 Crore
6	Suffering to oustees	NIL

Total loss= 1.40+8.85= 10.25 Crore

  
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## COST-BENEFIT ANALYSIS

Parameters For Evaluation of Benefit, notwithstanding loss of Forest.

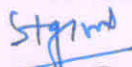
Annexure (VI-C)

Sl. No	Particulars	Road Tr.Lines & Railway Lines
1	Increase in productivity attributable to the specific project.	The productivity attributable due to proposed project is subject to estimation as per reduction in travel time for movement of vehicle and finally reduction in consumption of fossil fuels. Due to widening of the project road, the improved traffic condition and reduction to travel time will result in productive benefits of Rs. 112.02 Crores.
2	Benefits of economy.	<b>Socio-economic benefits due to the project will be</b> - better connectivity to the project village/settlements by providing better road condition and reduced travel time. - Reduction of Vehicular operational cost of Rs. 25.90 Crores due to savings in vehicular maintenance cost and reduced fuel consumption. - Benefits to trade specially in movement of perishable goods. - Reduction of road Accident cost of Rs. 3.68 Crores. - Net Economic Benefits (NPV) for the project Rs. 33.15 Crores (Total benefits - Increase in road Agency Cost; i.e. Rs. 141.61 Crores - 108.45 Crores)
3	No. of population benefited.	More than 5 Lacs
4	Employment potential.	About 100 employee will get direct employment for duration 1 year and indirect employment will also be generated due to construction of the project.
5	Cost 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
7	Cost of rehabilitation the displaced person as different from compensatory amount given for displacement.	there is no displacement due to the project, so resettlement is not required.
8	cost of supply of free fuel wood to workers residing in or near forest area during the period of construction.	No fuel wood will be supplied to the workers during construction period. Contractor will supply fuel for the cooking and other purpose in the worker's camp to the workers

Therefore Net Benefit of the project notwithstanding loss of forest is Rs. 33.15 Crores

**Benefit -Cost Ratio=33.15/10.25**

**= 3.23**

  
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