

Project Name *Development of link road (new NH-344N) (Km 0.000 to Km 7.500) between Dichaon Kalan till Bahadurgarh Bypass/NH-10 in the state of Delhi/Haryana: Protected Forest Land on RoW of NH Land of NH-10 Bahadurgarh Bypass (District Jhajjar) under Jhajjar Forest Division*
Forest Proposal No. FP/HR/ROAD/54374/2020

CERTIFICATE FOR MINIMUM USE OF FOREST LAND

This is to certify that the forest area involved in the proposal is unavoidable and barest minimum forest area i.e. 1.4905 ha (under Jhajjar Forest Division) area is proposed for diversion.

Date:- 31/12/2020

Place:- Dwarka

Project Director
National Highways Authority of India
PIU, Dwarka, New Delhi



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UNDERTAKING FOR PAYMENT OF COST OF COMPENSATORY AFFORESTATION

I/We, Project Director, National Highways Authority of India, PIU, Dwarka, hereby undertake to pay the entire amount for compensatory afforestation in lieu of the forest area diverted for as per the prevailing wage rates at the time of undertaking plantation activities.

Date:- 31/12/2020

Place:- Dwarka


Project Director
National Highways Authority of India
PIU, Dwarka, New Delhi



Counter Signed By -

Divisional Forest Officer

..... Forest Division

Official Seal.....



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UNDERTAKING FOR PAYMENT OF NET PRESENT VALUE OF FOREST AREA

This is to certify that I/We, Project Director, National Highways Authority of India, PIU, Dwarka have applied for diversion of 1.4905 ha of forest land for the purpose of Development of link road (new NH-344N) (Km 0.000 to Km 7.500) between Dichaon Kalan till Bahadurgarh Bypass/NH-10 in the state of Delhi/Haryana: Protected Forest Land on RoW of NH Land of NH-10 Bahadurgarh Bypass (District Jhajjar) under Jhajjar Forest Division, hereby undertake to pay the net present value (NPV) of the above forest land. I/We, also hereby undertake to pay the additional amount of NPV if so determined as per decision of the Hon'ble Supreme Court.

Date:- 31/12/2020

Place:- Dwarka


Project Director
National Highways Authority of India
PIU, Dwarka, New Delhi



Counter Signed By -

Divisional Forest Officer

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MUCK DISPOSAL CERTIFICATE

This is to certify that I/We, Project Director, National Highways Authority of India, PIU, Dwarka ensuring for proper muck disposal during construction of proposed road project and bear all expenses for the all muck disposal work.

Date:- 31/12/2020

Place:- Dwarka

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COST-BENEFIT ANALYSIS

CATEGORY OF PROPOSAL FOR WHICH COSTS BENEFIT ANALYSIS IS APPLICABLE

Sr. No.	Nature of Proposals	Applicable /Not Applicable (NA)	Remarks
1	All categories of proposals involving forest land upto 20 hectares in plains and upto 5 hectare in hills.	N/A	1.4905 ha of forest land proposed for diversion for Development of link road (new NH-344N) (Km 0.000 to Km 7.500) between Dichaon Kalan till Bahadurgarh Bypass/NH-10 in the state of Delhi/Haryana: Protected Forest Land on RoW of NH Land of NH-10 Bahadurgarh Bypass (District Jhajjar) under Jhajjar Forest Division
2	Proposal for defense installation purposes and oil prospecting (prospecting only)	N/A	--
3	Habitation establishment of industrial units tourist lodges/complex and other building construction	N/A	--
4	All other proposals involving forest land more than 5 hectare in hill including roads, transmission lines, minor, medium and major irrigation projects, hydel project mining activities, railway lines, location specific installations like micro-wave stations, auto repair centres, T.V. towers, etc.	N/A	--



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ESTIMATION OF COST OF FOREST LAND DIVERSION

Sr. No.	Parameters	Remarks																				
1	Ecosystem services losses due to proposed forest diversion	Net Present Value of Forest <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Proposed Diversion of Forest Land</th> <th>Area (in ha.)</th> <th>NPV (Rate INR per Ha.)</th> <th>Total (INR)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Proposed Diversion of Forest Land	Area (in ha.)	NPV (Rate INR per Ha.)	Total (INR)																
Proposed Diversion of Forest Land	Area (in ha.)	NPV (Rate INR per Ha.)	Total (INR)																			
2	Loss of animal husbandry productivity including loss of fodder	10% of NPV																				
3	Cost of human resettlement	Nil No human displacement involves in forest area																				
4	Loss of public facilities and administrative infrastructure (Roads, buildings, school, dispensaries, electric lines, Railway, etc.) on forest land, or which would require forest land if these facilities were diverted due to the project.	Nil																				
5	Possession value of forest land diverted	30% of NPV																				
6	Cost of Suffering to outsee	To be calculate																				
7	Habitat Fragmentation cost	No habitation fragmentation cost will be borne.																				
8	Compensatory afforestation and soil and moisture conservation cost	To be calculated by Forest Department																				



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Table C: Existing Guidelines for estimating benefits of forest diversion in Cost Benefit Analysis

Sr. No.	Parameters	Roads, Tr. Lines & Railway Line
Benefit of cost of forest diversion		
1	Increase in productivity attributable to the specific project	Development of link road (new NH-344N) (Km 0.000 to Km 7.500) between Dichaon Kalan till Bahadurgarh Bypass/NH-10 in the state of Delhi/Haryana: Protected Forest Land on RoW of NH Land of NH-10 Bahadurgarh Bypass (District Jhajjar) under Jhajjar Forest Division
2	Benefits to economy due to specific project	Upgradation of the project road will save time, Fuel and Vehicle Operating Cost will be reduced. It will provide safe and faster transport link between Delhi/Haryana/Rajasthan and other connected cities and will smooth traffic congestion from the important cities.
3	No. of population benefited to specific project	Entire population along the UER-II shall be benefitted from the project. In addition, the project will boost the economic growth of the Region and State.
4	Employment benefit due to specific project	More local people will be benefited during construction as well as operation of this highway. 1. Temporary employment of manpower during construction period (2 years) Skilled Man power: 200 nos. Un skilled Man Power: 500 nos. 2. Permanent Employment during operation phase a. Local employment will generate due to ribbon development along the project road b. 50 no. skilled and unskilled
5	Economic benefit due to of direct and indirect employment due to project	Ribbon development will take place along the highway which will provide directly and indirectly local employment in project area.
6	Economic Benefit due to compensatory afforestation	Compensatory afforestation will recover loss of greenery due to trees felling involve in the project.



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**NO VIOLATION OF FOREST CONSERVATION ACT 1980/
GUIDELINES UNDER IT**

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Date:- 31/12/2020

Place:- Dwarka

Project Director
National Highways Authority of India
PIU, Dwarka, New Delhi

