<u>Diversion of 33.420 Ha. Forest Land for up- gradation to Two Lanes with paved shoulder / Four lane configurations of Nanded- Kinvat- Mahur - Arni road section of National Highway 161A 0.000 km. at Bhoker and end at Arni Fata via Sarsam- Himayatnagr - Kinwat - Mahur - Response for the configurations of National Highway 161A 0.000 km. at Bhoker and end at Arni Fata via Sarsam- Himayatnagr - Kinwat - Mahur - Response for the configuration of National Highway 161A 0.000 km.</u>

Mahur of Nanded District in the State of Maharashtra. a) Parameters for Evaluation of Loss of Forests Sr. No. **Parameters** Description 1 Loss of value of timber, fuel wood and As per recent guidelines issued by MOEF to minor forest produce on an annual basis consider NPV as loss. Total estimate forest to be including loss of man hours per annum of diverted works out to be 33.42 ha. Considering people who derived livelihood and wages the propose value of NPV @ 6.62 lakh/ ha the from the harvest of these commodities. ould be Rs. 221.2404 lakhs 2 Loss of animal husbandry productivity, No significant animal huysbanday base is including loss of fodder observed through forest streth so as the fodder availability along road. However as per guidelines 10% of NPV is considered for monetoary loss which comes to around 22.417 lakhs 3 Cost of human resettlement There is no displacement related to in the forest area proposed for diversion and no loss to human resettlement Loss of public facilities and There are no public facilities and administrative administration infrastructure (Roads, infrastructure (roads, buildings, schools, Building School, dispensaries, electric dispensaries, electric lines, railways, etc) on the lines, railways etc) on forest land, or forest land where diversion is proposed. which require forest land if these facilities were diverted due to the project. 5 Possession value of forest land diverte As per recent guidelines issued by MOEF to balance) consider 30% NPV as loss. Total estimate forest to be diverted works out to be 33220 ha. Considering the propose value of NPV @ 6.62 lakh/ ha the ould be Rs. 66.427 lakhs 6 Suffering to oustees The widening and strengthen of the project road is to be undertaken on the adjoining land of the existing road, so there are no suffering to oustees. 7 Habitat Fragmentation Cost As per recent guidelines 50% of NPV is to be considered as habitat fragmentation loss Rs 110.62 lakhs

420.457

Net losses

## b) Parameters for Evaluation of Benefit, not with standing Loss of Forest

Sr. No.	Parameters		Description
1	Increase in productivity attributable the specific project.		Implementation of entire project will ensure fast, smooth and safe road traffic movement, reducing travel time, fuel consumption & traffic load. Project also aims at creation of commercial nodes for multiple developments mainly in industrial, commercial, agricultural, tourism sector resulting in to employment generation, capacity building as well as reducing congestion which will resultantly reduce pollution also.
* ***	Benefits to the economy		Improved transport is going to add more commuter this increasing income in government exchequer
3	No. of population benefited		Due to the proposed project 40% travel time will be saved, Fuel and maintenance of vehicles will be reduced at about 35%. It will provide safe and faster transport link Nanded and Yevatmal District and area will be uplifted approximately 30%. Estimated saving in 50 years span considering present avg traffic is Rs. 6750 lacs
4	Employment Potential	1	Local people will be benefited during construction as well as operation phase of the proposed upgraation to 2/4 lanes. Estimated benefits in terms of employment in 50 years time is Rs. 2738 lacs
	Cost of acquisition of facility on non- forest land wherever feasible.	d d	project will provide monitory benefits of Rs 6 akh per ha for compensatory afforestation for double degraded forest. Cost of CA will be Rs. 401.04 lacs
	Loss of (a) agricultural & (b) animal husbandry production due to diversion of forest land.	_	Vill
1	Cost of rehabilitating the displaced person as different from compensatory amount given for displacement.	T	There is no displacement related to in the forest rea proposed for diversion.
	Cost of supply of free fuel wood to workers residing in or near forest area during the period of	d	No fuel wood will be supplied to the workers uring the construction period. Contractor will upply LPG.

## **COST BENEFIT RATIO CHART** Name of Project : Proposal for diversion of 33 420 ha forest land District :- Nanded State :- Maharashtra Amount in Sr. No. Particular Lakhs Remarks 1 Total Cost (Investment proposed) A) Construction Cost of Project 54564 B) NPV Amount to be Deposited @ Rs 6.62 lakh/ha 221.240 as on date C) Compensatory afforestation on double degraded land tobe deposted with Central Government D) Compensatory afforestation seven year scheme on 401.04 66.84 66.84 Ha land ( double degraded forest land) Total Cost of project = 55,186.28 2 Benefit from Road (taking Life of Road as 100 Years) Economic Benefit - Saving in time, fuel cost, and A) other POL cost together (interest on saving for 50 year) considering 13.5% IRR 372507 C) Benefit due to promotion of enhanced economic activities due to road development-Assuming 100 people get employment @ 300/per day- for 300 days and for 50 years period 2738 D) Total Benefit (A + C) =375245 Net benefit= benefits minus losses 374824 Cost benefit ratio 6.792 E) Therefore construction of Road is Economically Viable and Socially Beneficial Authorized Representative

Executive Engineer

MAKO D.