PROPOSAL FOR FOREST CLEARANCE FOR THE CONSTRUCTION OF 2-LANING OF JORAM-KOLORIANG ROAD SECTIONS FROM CH 44.000 TO CH 59.363 (KM 50.000 TO 70.000 OF EXISTING JORAM-KOLORIANG ROAD) FOR EXECUTION IN EPC MODE AT KRA-DADI DISTRICT IN THE STATE OF ARUNACHAL PRADESH UNDER "SARDP-NE"

COST BENEFIT ANALYSIS

PARAMETER FOR EVALUATION LOSS OF FOREST HAS BEEN ACCORDED FOR A PERIOD OF 50 YEARS AS PER GOVERNMENT DIRECTIVES

Quantum of forest land

applied for

: 48.92 Ha (All rights)

Life of Project : 99 years

Division : Kurang Kumay Forest Division, Kra Daadi District

1. Forest Loss Calculations

1.	Present NPV for 1 Ha of forest land	= 6.26 Lakh	
1.	Present NPV for 48.92 Ha forest land	= 48.92 X 6.26	
	Present NPV 101 48.52 na lorest land	- 48.92 X 0.20	
		= 306.2392 Lakh	
	Rate of C.A. for 1 Ha of forest land	= 4.1035 Lakh (2015-16)	
	Value of C.A. for 48.92 Ha forest land	= 48.92 X 4.1035	
		=200.7432 Lakh	
	Double the amount of C.A.	= 2 X 200.7432	
		= 401.4864 Lakh	
	TOTAL LOSS	= 306.2392 + 401.4864	
		= 707.7256 Lakh	
2.	Loss of animal husbandry productivity including loss of fodder	NIL, There is no loss of animal husbandry productivity.	
3.	Loss of human re-settlement	NIL, as the area is not habited, hence there is no major displacement of any oustsees in the project & hence there would be no resettlement	
4.	Loss of public facilities and administrative infrastructure (roads, buildings, schools dispensaries, electric line, railway, etc.) on forest land or which would require forest land if these facilities were diverted due to this project.	NIL, as there is no public facilities service existing.	
5.	Environmental losses (soil erosion effect on hydrological cycle, wild life habitat, microclimate, upsetting of geological balance)	The details of environmental losses are determined as per given thumb rule for the forest area required for the project and are as follows: (i) Density of the forest – 0.2 (ii) Average density for the area	

		of the forest. The compensation for Environmental losses will be paid as per the assessed Net Present
		the Environmental as plantation will be carried out on the open face
		48.92 X 25.348 = 1240.024 Lakh. There will be minimal impact on
	(vi)	Total environmental loss for the forest area to be acquired for the project —
		project – 48.92 Ha
	(v)	Total forest area required for the
		forest of density to be acquired (Rs in Lakh) – 0.2 X 126.74 = 25.348 Lakh
	(iv)	Environmental loss per hectare for
	(iii)	Environmental value per hectare for density 1.0 (Rs in Lakh) – 126.74 Lakh
		proposed to be acquired for the project - 0.2



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EVALUATION OF BENEFIT, NOTWITHSTANDING LOSS OF FORESTS

SL NO.	PARAMETER	FOR STRATEGIC ROAD CONSTRUCTION
1	Increase in productivity	The planned project is a strategic road project of Ministry of
	attributed to the specific	Road Transport & Highways (NHIDCL), a fully-owned company
	project.	of Ministry of Road Transport & Highways (MoRTH),
		Government of India, under <u>Special Accelerated Road</u>
		<u>Development Programme in North East (SARDP-NE)</u> .
		The aim of SARDP-NE programme is to:
		 Upgrade National Highways connecting State Capitals to 2/ 4 lane
		■ To provide connectivity of all 88 District Headquarter
		towns of NER by at least 2- lane road;
		 Improve roads of strategic importance in border area.
		 Improve connectivity to neighbouring countries
		With an aim to achieve the aforesaid objectives, the widening
		and realignment of Joram-Koloriang Road sections from Km
		20.000 to Km 70.000 & Km 138.000 to Km 158.000 will be
		developed as a 2-Lane carriageway with paved shoulders with
		a proposed Right of Way (RoW) of 18-35 meters as compared
		to existing RoW of 9-12 metres which will not only improve
		the journey speed to 30-40 km/h from existing 18-20 km/h
		speed but will also save the traveling time and vehicle
		operating costs (VOC) because of improved traffic condition
		on a widened and geometrically improved road alignment.
		The project road stretch is further aims to provide better,
		smooth and quick transportation to local inhabitants as well
		as the Army and paramilitary forced deployed in the border
		and also aims to provide a hassle free connectivity to all the
		project districts.
2	Benefits to economy	The direct and indirect benefits of the up-gradation of
		existing road from the Joram–Koloriang section of Km
		20.000 to Km 70.000 & Km 138.000 to Km 158.000 of NH-
		713 are as given below:
		<u>Direct Benefits</u>
		■ Fast and Safe Connectivity
		Decongestion of traffic on the road
		■ Savings in fuel, travel time and total transportation cost
		of road users.
		■ Reduction in road accidents.
		■ Reduction in pollution due to constant flow and

	1	
		segregation of traffic from other roads
		Macro Level Benefits
		Employment opportunity to people.
		Quick transportation of goods and services for the Army
		and paramilitary forced deployed in the border areas.
		• Quick transportation of agricultural produce and
		perishable goods.
		Development of tourism in Arunanchal Pradesh and
		North East States.
3	Number of population	Widening and realignment of the project road Joram–Koloriang
	benefited	Road section from Km 20.000 to Km 70.000 & Km 138.000 to
		Km 158.000 is going to benefit the entire population of Lower
		Subasiri and Kra Daadi and of Kurung Kumey districts as well as
		Army and paramilitary forced deployed in the border areas.
4	Employment Potential	During the construction stage employment will be generated
		for skilled and unskilled manpower. About 110 persons will be
		employed during the peak working season for construction
		resulting in about 16,500 man days would be required during
		the construction phase of two years. The local people will also
		get the opportunity to carry out contract works subject to their
		work capability/expertise- After the completion, about 10
		people will be employed upkeep and maintenance of use road
		and other structures – The road will facilitate in tourism and
		horticulture where local population as per their experience and
		qualification will get benefitted
5	Cost of Acquisition facility on	
	non-forest land wherever	Lakhs (Approx.) for project stretch from Km 50.00 to Km 70.00
	feasible	as mentioned in R&R policy, 2008 of Arunachal Pradesh State
		Government
6	Loss of (a) Agriculture and	There is no any agriculture or Animal Husbandry activity going
	(b) Animal Husbandry	on along the project road stretch.
	products due to diversion	on diong the project road stretch.
	of forestland	
7		Not Applicable
		There is no displacement due to the diversion of the land for the
	The state of the s	project purpose.
	compensatory amounts	
	given for displacement	
8	Cost of Supply of free fuel	During the construction, alternative source of fuel like LPG and
	-wood to workers residing	Kerosene will be provided to the workers residing in or near the
	in or near forest area	forest area. A wood depot will be setup for supply of firewood
	during period of	as a backup fuels to avoid illegal felling of trees for cooking
	construction	purpose.
<u></u>	CONSTRUCTION	parpose.

