कार्यालय उप वन संरक्षक, बून्दी

Add. - Nainwa Road, Behind Head Post Office, Bundi - 323001

Add. - Nainwa Road, Behind Head Post Office, Build - 326-11 विनाक : अर्था विगाक : अर्था : अर्था

क्रमांक एफ2()वन संरक्षण/उवसं/2020/ 8472

निमित:-

संभागीय मुख्य वन सरंक्षक,

कोटा।

विषय:- Submission of document for seeking prior approval of forest case

proposal No. FP/RJ/ROAD/29812/2017 in respect Construction Laxmipura-

Dora-Dabi-Ranaji Ka Guda NH-12.

प्रसंग — राज0 सरकार वन विभाग जयपुर के पत्र कमांक प.1(69)वन / 2021 दिनांक 30.09.

2021 की क्यूरी के संबंध में।

महोदय,

उपरोक्त विषयान्तर्गत निवेदन हैं कि राज0 सरकार वन विभाग ज्यपुर के पत्र कमांक प.1(69)वन/2021 दिनांक 30.09 2021 की ऑनलाइन क्यूरी का बिन्दूवार जवाब प्रयोक्ता एजेन्सी द्वारा ऑनलाइन अपलोड कर हार्ड कॉपी कार्यलय में प्रस्तुत की है, जिसकी बिन्दूवार टिप्पणी निम्न प्रकार हैं:-

क्रोंगी का	र्यलय में प्रस्तुत की है, जिसकी बिन्दूवार टिप्पणी निग	Floorly
S.No.	Online Query	क्योक्टा एनेन्सी द्वारा ऑन लाईन संसोधित कर अपलीड कर
1	Cost -benefit analysis of the project	दिया गया, हाड कापा सलग्न है।
2	Duly counter singned by DCF at Bar-Chart	Bar-Chart पर हस्ताक्षर कर दिये गये है सलंग्न है।
3	To include specific recommendation in site- inspection report of DCF/CCF/No subject to acceptance of the proposal	अनुशंषा पत्र में विशेष शर्त का उल्लेख कर दिया गया है। पत्र के साथ संलग्न है। प्रयोक्ता एजेन्सी से प्राप्त CD सलंग्न है।
4	CD of KML file	
5	Under taking of User Ajency to raise strip plantation on both side and Central verge of the road	प्रयोक्ता एजेन्सी से प्राप्त वचनबद्वता प्रमाण पत्र सलंग्न है।

संलग्न:- उपरोक्तानुसार।

भवदीय

उप वन संरक्षक

क्रमांक डफ्2()वन संरक्षण/उवसं/2020 8473

1. प्रतिलिपि अतिरिक्त प्रधान मुख्य वन संरक्षक एफसीए राज० जयपुर को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित हैं।

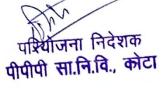
(सोनलं जौरिहार)

Table-B: Estimate of Cost of Forest Diversion in Bundi District

Sr. No.	Parameters	Given Guideline	Evaluation
1	Ecosystem Services losses due to Proposed Forest Diversion	Economic value of loss of ecosystem services due to diversion of forests shall be the net present value (NPV) of the forest land being diverted as prescribed by Central Government (MoEF&CC) Note:- in case of National Parks the NPV shall be Ten (10) times the normal NPV and in case Wildlife Sanctuary the NPV shall be five (5) times the normal NPV or otherwise prescribed by the Ministry or any other competent authority. Note:-1: Net Present Value (NPV) of environment and ecosystem service loss:- The concept of Net Present Value (NPV) of environment and ecosystem services loss:- The Concept of Net Present Value of the forest land diverted is a scientific method of calculating the environment cost and other losses Caused due to diversion of forest land for non-forestry purposes, the NPV represents the net value of various ecosystem services and other environmental services in monetary terms which the forest would have provided if the forest would not have been diverted.	NPV value (as per of Forest Conservation act, 1980 is in between Rs. 4.38 to 10.43 lac per Hectare Accordingly, Net Present Value of Forest Land Proposed For Diversion is 6,26,000/- per hat therefore Total NPV Shall be 626000 X 32.3264 = 2,02,36,326/- Rupees.
2	Loss of animal husbandry productivity including loss of fodder.	To be quantified and expresses in monetary terms of 10% of NPV applicable whichever is maximum.	Loss of Animal husbandry due to proposed diversion is very moderate and calculated below.: Gross loss @ 5 ton/Ha/year @ Rs. 100/- per tonne. Therefore, loss of fodder as estimated for about32.3264 Ha. will be 32.3264 X 5 X 100 = 16163/YR X 50 Years = Rs. 808150 (8.08 Lac) So considered amount (maximum one) is Rs. 20.24 lac.
3	Cost of human resettlement	To be quantified and expressed in monetary terms on actual terms as per approved R&R Plan.	Nil Human Resettlement is not required since no family is residing in forest land.
4	Loss of public	To be quantified and expressed in monetary	No loss of public

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	facilities and administrative infrastructure (roads, buildings, schools, dispensaries, electric lines, railways etc) on forest land or which would require forest land if these facilities were diverted due to: the project.	diversion.	Roads, hospital etc are investigated. However, there will be some utility shifting like electricity pole, telephone line, OFC cable etc from proposed ROW located in forest land. The likely cost of these utility shifting is estimated Rs. 345.00 Lac.
5	Possession Value of Forest land	30% of environmental cost (NPV) due to loss of forest or circle rate of adjoining area in the district should be added as a cost component as possession value of forest lands whichever is maximum. Note 2: Possession value of forest land diverted:- The forest land diverted for the project such as irrigation, hydropower, railways, roads, wind and transmission lines and mining etc are unlikely to be returned and remains in the possession of the user agencies, Therefore 30% of the net present value(NPV) of forest land diverted or market rate of adjoining area in the district should be added as a cost component as "possession value of forest land" in addition to the environment cost due to loss of forests.	(considering 30% of
6	Cost of Suffering to ousters	The social cost of rehabilitation of ousted (in additional to the cost likely to be incurred in providing residence, occupation and social services as per R&R plan) be worked out as 1.5 times of what ousted should have earned in two years had he not shifted.	NIL, no resettlement & rehabilitation is identified or required in forest land which is proposed to be diverted. Also the community residing along the project road is not dependent on forest or forest produce. There will not be any losses on this account as diversion of the forest land to this project will not affect



			any house or structure in protected forest area which is basically a linear plantation.
7	Habitat Fragmentation Cost	While the relationship between fragmentation and forest goods and services is complex for the sake of simplicity the cost due to fragmentation has been pegged at 50% of NPV applicable as a thumb rule.	Habitat fragmentation cost is 50% of NPV that is Rs. 202.36 X 50% = 101.18 Lac.
8	Compensatory afforestation and soil & moisture conservation cost	The actual cost of compensatory afforestation and soil & moisture	As per DFO Office, Bundi CA cost estimated Rs. 55.79 Lac for 32.3264 Ha. Forest land to be diverted.

Table -C- Existing guideline for estimating benefit of forest diversion in Cost Benefit Analysis (CBA)

Sr	Parameter	Given	Evaluation
No.		guidelines	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1.	Increase in productivity attributable to the specific project.	To be quantified & expressed in monetary terms avoiding double counting.	 Socio economic benefits due to the road project will provide the Connectivity to state capital to district head quarter With high spped corridor leading reduced travel time and fuel consumption. The benefit to trade specially in moment of perishable goods. Access to new industrial area. Overall enhancement of socio-economic condition of the area along the project corridor. Through overall mission to increase the GDP of the said region and make it comparable/above the nation GDP Again, directly approximately 146000-man days of temporary and 1000 permanent employment will be generated during the construction of the project for a period of 2 years.
2.	Benefits to economy due to specific project	The incremental economic benefit in monetary terms due to the activities attributed to the specific project.	Economic benefit in terms of increase in trade saving in vehicular operation and maintenance cost better connectivity, safer journey to commuter and saving of travel time. Improved road connectivity helps in better implementation and management of government schemes. It will provide last and economical transport of goods. After completion of project, the local people and industries situated in the area will be greatly benefited. The widening of project road will provide safe, fast, economic and environmental friendly transportation to the state which in term will accelerate the rate of growth in this area. In addition to that there area several other benefits that may accrue due to saving in fuel, reduction in time to commute, vehicle maintenance, reduction in carbon

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			emission	etc.				
			"However, they have not been quantified as it will be a function of various govt. policy variables" Exact quantification of the value is not possible as it is time and policy dependent.					
3.	No. of population benefited due to specific project.	As per detailed project report.	be benefit	ed directly.		le from district		
4.	Economic benefit due to direct and indirect Employment potential.	As per detailed project report	permanen constructi Wages @r Lac.	nt employme ion of the P rs. 550/day (ent will t roject for average) =	s of temporar be generated of a period of 2 Rs. 550 X 7300	Years and	
5.	Economic benefit due to compensatory afforestation	Benefit from such compensatory afforestation accruing over next 50 years monetized and discounted to the present value should be included as benefit of CA the guideline of the Ministry for NPV estimation may be consulted.	Project Details So. Benefi In lieu of the undertake Compensa Act 1980. Apart from plantation of Non for a density years per per FCA decological	Increasing Rate of cost year 5% t of economy total forest late at least atory affores m compensa a. The comperest land, wh of minimum iod of density	Project after 50 years 258.125 Cr. in 50 year and to be after twice of tation as project tory plantansatory with is down a 0.7. The prof 1.0 is 1 project after 50	table below: Current cost involves in construction project 103.25 Cr. s = 154.875 cro fected it is propute affected	trees as as as ervation) and divider 2.3264 Ha. I be having e for a 50 ectare (As ensity, the	

Summary of Cost-Benefit Analysis for the project.

Sr No.	Loss in Lac	Benefit in Lac
1.	Ecosystem Services losses = Rs. 202.36 Lac.	Ecological gain for this project would be 126.74 lac X0.7X32.3264 = 2867.9335 Lac. Benefit of Economy for the present year = 2867.9335
2.	Loss of animal husbandry productivity including loss of fodder = Rs. 20.2363 Lac	Tac. 73000 man days will be generated for unskilled/semi-skilled worker in terms of salry and Wages @ Rs. 550/day (average) = Rs. 550X73000=401.00 Lac
		Basic living amenities including alternative fuel (LPG solar cooker etc) will be supplied to labours/workers in construction period by contractor-2 years. Number of labours at peak time -225 Approx.50% labour assume to be local.

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		Per head cost of fuel - Rs. 2.00/day for rest 112 labours. Total Cost = Rs. 2.00X112 laboursX803days = Rs. 179872.00/- of Rs. 1.798 Lac
3.	Loss of public facility = Rs. 345 Lac	
4.	Possession value of forest land diverted = Rs. 2424.48 Lac	As per detailed project report
5.	Habitat Fragmentation Cost = Rs.101.1800 Lac.	
6.	Compensatory afforestation and soil & moisture conservation cost = Rs. 55.79 Lac.	
7.	Total Cost/Loss = 202.36 Lac + 20.2363 Lac + 345 Lac + 2424.48 Lac + 101.1800 Lac + 55.79 Lac = 3149.0463 Lac.	Total gain/benefit from project = Rs. 2867.9335 Lac + 154.875 Lac + 401.00 +1.798 Lac = 18885.408 Lac

Cost Benefit Ratio = Total Benefit/Total Loss = 3425.6065/3149.0463 = 1.0878 which is >1 so project is found valuable based on given above described criteria.

परियोजना निदेशक पारीपा सानि.वि., कोटा **Full Title of the Project:** "Diversion of 32.3264 hectare Forest Land for Development of Laxmipura-Dora-Dabi-Ranaji Ka Guda NH-12, in the state of Rajasthan".

Proposal No.: FP/RJ/ROAD/29812/2017

Date of Proposal: 09.06.2018

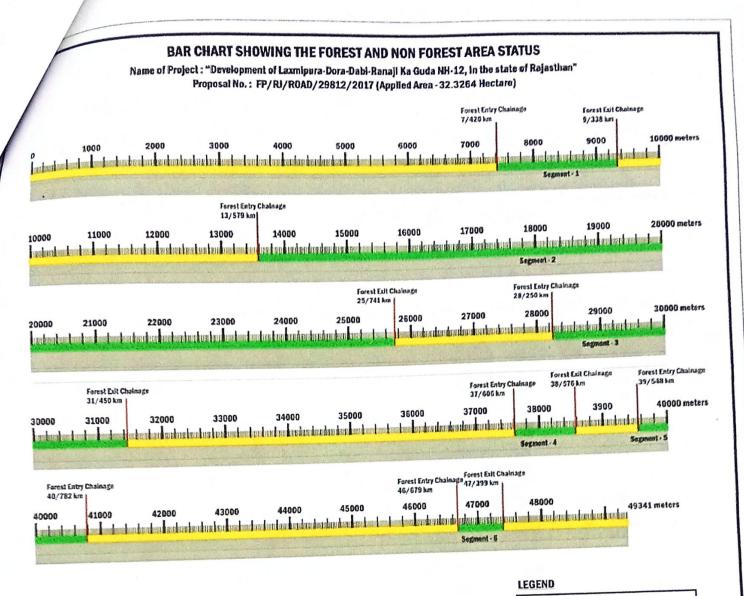
Purpose: The Cost Benefit Analysis is being undertaken as the proposed diversion of forest land being affected due to widening (Two Laning) of existing road for above said project is > 20 Ha.

Cost Benefit Analysis as per Guidelines for Forest Land Diversion - 2017:

Sr No.	Nature of Project	Applicable/N ot Applicable	Remarks
1.	All categories of proposal involving forest land upto 20 ha. In plains and upto 5 Ha. In hills.	Not Applicable	These proposals may be considered on a case to case basis and value judgments.
2.	Proposal for defense installation purpose and oil prospecting (prospecting only)	Not Applicable	In view of national priority accorded to these sectors, the proposals would be critically assessed to help ascertain that the utmost minimum forest land is diverted for non-forest use.
3.	Habitation, establishment of industrial units, tourists lodge complex and other building construction.	Not Applicable	These activities being determined to protection and conservation of proposal would be rarely entertained.
4.	All other proposals involving forest land more than 20 Ha. In plains and more than 5 Ha. In hills including roads, Transmission line, minor, medium and major Irrigation projects, hydro projects, mining activity, railway line, location specific installations like microwave stations, auto repair centres, TV towers etc.	Applicable	These are the cases where a cost-benefit analysis is necessary to determine when diverting the forest land to non-forest use in the overall public interest.

Since the proposal is for diversion of forest land measuring more than 20 Ha. In the plain area for road project, cost benefit analysis report is applicable.

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							Page and A		Forest Land	1	
			1	Forest Area		No	n Forest Area				-
Division &	Villages	Segment		saddeb (BA)	Area (Som)	Length (M)	Width (M)	Area (Sqm)	Total Forest Area (ha.)	Forest (ha.	A

			Forest Area		Non Forest Area				T-1-131		
S. Na.	Division & District	Villages	Segment	Length (M)	Width (M)	Area (Sqm)	Length (M)	Width (M)	Area (Sqm)	Total Forest Area (ha.)	Total Non Forest Area (ha.)
1		Bharta Bavdi & Laxmipura	Segment 1	1918.000	16.0000	30688	29137		466192	32.3264 Hectare	
2		Maradi Talab, Dora, Kachaliya & Kanwarpura	Segment 2	12162.000	16.0000	194592					
3	1	Kanwarpura	Segment 3	3200.000	16.0000	51200		16.0000			46.6192
4	Bundi	Dabi	Segment 4	970.000	16.0000	15520					Hectare
5		Chhant ka Khera	Segment 5	1234.000	16.0000	19744					
6	-	Lambakoh	Segment 6	720.000	16,0000	11520					
	-			Total Ar	ea (Sqm)	323264	Total Ar	ea (Sqm)	466192		
				19		-					

MAP NOT TO SCALE

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परिय्रोजना निदेशक **पीपीपी सा.नि.वि.**, कोटा full Title of the Project: "Diversion of 32.3264 hectare Forest Land for Development $_{
m of\,Laxm}$ ipura-Dora-Dabi-Ranaji Ka Guda NH-12, in the state of Rajasthan ".

proposal No.: FP/RJ/ROAD/29812/2017

Date of Proposal: 09.06.2018

UNDERTAKING BY UGER AGENCY TO RAISE STRIP PLANTATION ON BOTH SIDE AND CENTAL VERGE OF THE ROAD

"Public Works Department, Kota " the user agency is hereby undertakes that, we will Raise the Strip Plantation on both side and central verge of the Road in lieu of Diversion, of 32.3264 hectare Forest Land for Development of Laxmipura-Dora-Dabi-Ranaji Ka Guda NH-12, in the state of Rajasthan.

Place: Kota

Date: 17/11/2021

उप वन संरक्षक

बून्दी (राज०)

Counter signed by:-**Divisional Forests Officer Bundi Forest Division** Office Seal_____

Deputy Conservator of Forest, Bundi

RECOMMENDATION NOT BELOW THE RANK OF DCF

(For the Forest Land to be diverted under FCA)

Name of Project: Construction of Laxmipura-Dora-Dabi-Ranaji Ka Guda NH-12 Dist bundi.

Specific recommendation for accepatance or otherwise of the Proposal.

I recommend the Proposal for acceptance in Public interest on

- I- Since the proposed forest area Laxmipura-Dora-Dabi-Ranaji Ka Guda NH-12 will divide the protected forest land into two parts, It will become prone to encroachments, so for effective protection of remaining forest land on both the side of ROW pakki stone wall is required
- 2- Underpass must be constructed to ensure connectivity of wild animals in that stretch of forest land. Proposed underpass with gps in the area proposed as mentioned below.
 - 1- 25°12'41"N 75°39'15"E
 - 2- 25°10'04"N 75°38'1"E
 - 3- 25°09'0"N 75°37'21"E
 - 4- 25°6'56"N 75°35'22"E
 - 5- 25°6'2"N 75°34'26"E

Proposal NO: FP/RJ/ROAD/29812/2017

Recommended Area: 32.3264 Ha.

Place: Bundi

Date: 19-07-2021

(Sonal Jourihar)

DY, CONSERVETAR FOREST

BUNDI