

कार्यालय प्रधान मुख्य वनु संरक्षक (वन बल प्रमुख) राजस्थान,

अरण्य भवन, झालाना संस्थानिक क्षेत्र, जयपुर-302004

क्रमांकः एफ. 14()2018/एफसीए/प्रमुवसं/ 3596

दिनांक 9.1221

शासन सचिव, वन विभाग, राजस्थान, जयपूर।

> विषय:-Diversion of 32.3264 ha. forest land in favour of ADD. CHIEF ENGINEER PPP PWD Laxmipura-Dora-Dabi-Ranaji ka Guda NH-12 (Proposal No.- FP/RJ/ROAD/29812/2017) संदर्भ:-आपका पत्रांक प.1(69)वन/2021 दिनांक 30.09.2021

महोदय,

उपरोक्त विषयान्तर्गत संदर्भित पत्र के क्रम में निवेदन है कि मुख्य वन संरक्षक, कोटा के पत्रांक 5014 दिनांक 26.11.2021 से चाही गई सूचना की पूर्ति कर संलग्न निम्नानुसार प्रेषित हैं:-

S.N.	EDS	Reply
1.	Cost-benefit Analysis of the Project.	उप वन संरक्षक, बूंदी ने पत्रांक दिनांक 25.11.2021 से अवगत गराया है कि प्रयोक्ता एजेन्सी द्वारा ऑनलाईन संशोधन कर अपलोड कर दिया है, हार्ड कॉपी संलग्न है।
2.	Duly counter-signed by DCF at Barchart.	उप वन संरक्षक, बूंदी ने पत्रांक दिनांक 25.11.2021 से अवगत गराया है कि Bar-chart पर हस्ताक्षर कर संलग्न कर दिया है।
3.	To include specific recommendation in site inspection report of DCF/CCF/No Subject to acceptance of the proposal.	उप वन संरक्षक, बूंदी ने पत्रांक दिनांक 25.11.2021 से अवगत गराया है कि अनुशंषा पत्र में विशेष शर्त का उल्लेख कर, संलग्न कर दिया है।
4.	CD of KML file.	उप वन संरक्षक, बूंदी ने पत्रांक दिनांक 25.11 2021 सं अवगत गराया है कि प्रयोक्ता एजेन्सी से के एम.एल. फाईल की सी.डी. प्राप्त कर संलग्न कर दी है।
5.	Undertaking of user agency to raise strip plantation on both side and central verage of the road.	उप वन संरक्षक, बूंदी ने पत्रांक दिनांक 25.11.2021 से अवगत गराया है कि प्रयोक्ता एजेन्सी से वचनबद्धता प्राप्त कर, संलग्न कर दिया है।

उक्तान्सार (दो सैट मय सी.डी. सलग्न

भवदीय

(डॉ. गोबिन्द सार्गर भारद्वाज) अति० प्रधान मुख्य वन संरक्षक प्रोटेक्शन एंव नोडल अधिकारी एफसीए,

राजस्थान, जयपर

क्रमांकः एफ. 14()2018/एफसीए/प्रमुवसं/ दिनांक प्रतिलिपि:-मुख्य वन संरक्षक, कोटा को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित हैं।

> उप वन संरक्षके (एफ.सी.ए) अरण्य भवन, जयपर

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

Sr.	Parameters	Given Guideline	Evaluation
No.	Services losses	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)	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 ha. therefore Total NPV Shall be 626000 X 32.3264 = 2,02,36,326/- Rupees.
2	Loss of animal husbandry productivity including loss of fodder.	forest would not have been diverted. 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 tonner Therefore, loss of fodder as estimated for about32.3264 5 X 100 = 16163/Y X 50 Years = R 808150 (8.08 Lac) So considered amoun (maximum one) is R 20.24 lac.
3	Cost of human resettlement	To be quantified and expressed in monetary terms on actual terms as per approved R&I Plan.	y 1411
			y No loss of publ

	V	infrastructure like
facilities and administrative infrastructure (roads, buildings, schools, dispensaries, electric lines railways etc) of forest land of which would require forest land if these facilities were diverted due to the second substitute of the second sub	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.
the project. 5 Possession Value of Fore 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 on 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.	Per hectare land rate along the highway in district Bundi is approx. 75 lac/ha. So possession value of forest land (as per average circle rate) = 32.3264 Ha X 75.00 Lac = 2424.48 Lac So considered amount (Maximum one) is Rs. 2424.48 Lac.
6 Cost of Suffer 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 a 1.5 times of what ousted should have earned in two years had he not shifted.	NIL, no resettlement a & rehabilitation is identified or required in forest land which is

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			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 conservation and its maintenance in future at present discounted value.	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 No.	Parameter	Given guidelines	Evaluation
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 is 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 carbo

			function quantifica policy dep	r, they have of various ation of the v pendent.	govt. palue is not	quantified as it policy variabl possible as it i	es" Exact is time and
3.	No. of population benefited due to specific project.	As per detailed project report.	be benefit	ted directly.		e from district	
4.	Economic benefit due to direct and indirect Employment potential.	As per detailed project report	permaner construct Wages @1 Lac.	nt employme ion of the P rs. 550/day (a	ent will b roject for average) =	s of temporary be generated of a period of 2 Rs. 550 X 7300	during the 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 tundertake Compensa Act 1980. Apart from plantation of Non for a density years peri per FCA 1 ecological	Increasing Rate of cost year 5% t of economy total forest la e at least atory affores m compensat The compensat The compensat The compensat of minimum of of density	Project after 50 years 258.125 Cr. in 50 years nd to be after twice of tation as properties of the control of the control of 1.0 is 1 insidering in the control of 1.0 is 1 insidering	table below: Current cost involves in construction project 103.25 Cr. s = 154.875 cro fected it is prop the affected per Forest (Cor ation and on ro ll be done on 3 the line would ecological valu 26.74 lac per h minimum 0.7 d puld be 126.74	posed to be trees as aservation) 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	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 Lac.				
1.	Ecosystem Services losses = Rs. 202.36 Lac.					
2.	Loss of animal husbandry productivity including loss of fodder = Rs. 20.2363 Lac	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.				



3.	Loss of public facility. B. 045	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
	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 पीपीपी सा.नि.वि., कोटा **ull 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:

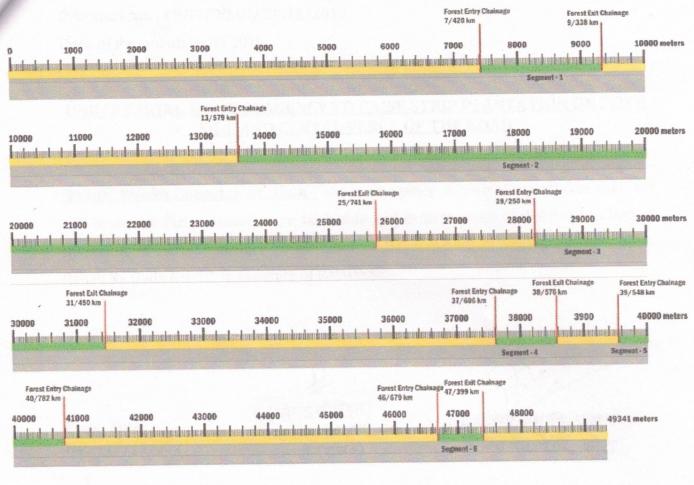
Sr No.	Nature of Project	Applicable/N ot Applicable	Remarks		
1.	All categories of proposal involving forest land upto 20 ha. In plains and upto 5 Ha. In hills.	Not Applicable	These proposals may be considered on a case to case basis and value judgments.		
2.	Proposal for defense installation purpose 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	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.

परियोजना निदेशक पीपीपी सा.नि.वि., कोटा

BAR CHART SHOWING THE FOREST AND NON FOREST AREA STATUS

Name of Project: "Development of Laxmipura-Dora-Dabi-Ranaji Ka Guda NH-12, in the state of Rajasthan" Proposal No.: FP/RJ/ROAD/29812/2017 (Applied Area - 32.3264 Hectare)





	Division & District	Villages		Forest Area		Non Forest Area			5 8 1 1		
S. No.			Segment	Length (M)	Width (M)	Area (Sqm)	Length (M)	Width (M)	Area (Sqm)	Total Forest Area (ha.)	Total Non Forest Area (ha.)
1	-	Sharta Bavdi & Laxmipura	Segment 1	1918.000	16.0000	30688	29137	15,0000	466192	32.3264 Hectare	46.6192 Hectare
2	5	Maradi Talab, Dora, Kachaliya & Kanwarpura	Segment 2	12162.000	16.0000	194592					
3		Kanwarpura	Segment 3	3200.000	16.0000	51200					
4	Bundi	Dabi	Segment 4	970.000	16.0000	15520					
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 Are	a (Sqm)	466192		

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

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

(सोनल जौरिहार) उप वन संरक्षक बून्दी (राज॰)

Signature of Wser Agency with offine Seal of a

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 following two conditions

- 1- 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