भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA
कोटा हवाईअड्डा, कोटा–324007
KOTA AIRPORT, KOTA-324007

Full Title of the Project: "Diversion of 466.5920 ha. Forest land for Construction of New Green Field Airport Kota, District- Bundi in the State of Rajasthan".

Proposal No. : FP/RJ/Others/150590/2021

Date of Proposal: 28/12/2021

Forest Land Proposed for Diversion : 466.5920 Hectare

ANNEXURE VI (a)			
CATEGORY OF PROPOSAL FOR WHICH COST- BENEFIT ANALYSIS IS APPLICABLE			
Sr.No.	**NATURE OF PROPOSAL**	**APPLICABLE/ NOT APPLICABLE**	**REMARKS**
1	All categories of proposals involving forest land up to 20 hectares in plains and up to 5 hectares in hills	APPLICABLE	The diversion of 466.5920 Hectare Forest land is proposed for the Construction of New Green Field Airport Kota, District-Bundi in the State of Rajasthan. The cost Benefit Analysis is applicable
2	Proposal for defense installation purpose and soil prospecting (prospecting only)	NOT APPLICABLE	
3	Habitation, establishment of industrial unit, tourist lodges/ complex and other building construction	NOT APPLICABLE	
4	all other proposals involving forest land more than 20 hectares in plains and more than 5 hectares in hills including roads, transmission lines, minor, medium and major irrigation projects, hydel projects, mining activity, railway lines, location specific installation like micro-wave stations, auto-repeater centres, TV towers etc.	APPLICABLE	The diversion of 466.5920 Hectare Forest land is proposed for the Construction of New Green Field Airport Kota, District-Bundi in the State of Rajasthan. The cost Benefit Analysis is applicable

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TABLE- B :- ESTIMATION OF COST OF FOREST DiVERSION			
S. NO.	PARAMETERS	Given Guideline	Evaluation
1	Ecosystem services losses due to proposed forest diversion	Economic Value of loss of economic services due to diversion of forests shall be the net present value (NPV) of the forest land being diverted as prescribed by Central Govt. (MoEF& CC)	Net Present Value/hectare= Rs.6.26 Lacs per Hectare So , NPV for 466.5920 Hectare Forest Land will be Forest Area* NPV/hectare **Rs 2920.8659 lacs**
2	Loss of animal husbandary productivity incluiding loss of fodder	To be quantified and expressed in monetary terms 10 % of NPV applicable, whichever is maximum	Considering 10 % of NPV as pe the guideline =**Rs 292.0866 lac**
3	Cost of human resettlement	To be quantified and expressed in monetary terms on actulal terms as per approved R&R plan	NIL Since there is no displacement of peoples due to proposed project.
4	Loss of public facilities and administrative infrastructure (Road, Building, Schools, Dispensaries electric lines, Railway etc.) on forest land if these facilities were diverted due to project.	To be quantified and expressed in monetary terms on actual cost basis at the time of diversion.	NIL Since No public facilities and/ or administrative infrastructure i.e. roads, building, schools, dispensaries, electric lines, railways etc. are not available inside the Forest land proposed for diversion, hence there is no any kind of loss of facilities or there diversion to forest land.
5	Possession value of forest land diverted	30 % of environment 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 land whichever is less	Possession value of land will be (considering 30 % of NPV) = **Rs. 876.2598 lac**
6	cost of suffering to oustees	The social cost of rehabilitation of outsees (in addition 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 outsees should have earned in two years had he not been shifted	NOT APPLICABLE

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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 application as a thumb rule.	Habitat Fragmentation Cost is 50 % of NPV = **Rs. 1460.4330 lac**
8	compensatory afforestation and soil & moisture conservation cost	The actual cost of CA and soil & moisture conservation and its maintenance in future at present discount value	Rate of compensatory afforestation is Rs. 1.927 Lacs per hectare. So CA cost is = **Rs. 899.1228 lac**
9	Cost of the project	As per guidelines	Cost of the project is Rs. **120000 Lacs**
Total Cost			**126448.7681 Lacs**

TABLE - C :-Existing guidelines for estimating benefits of forest - diversion in CBA

S. NO.	PARAMETERS	Given Guideline	Evaluation
1	Increase in productivity attributable to the specific Project	To be quantified & Expressed in monetary terms avoiding double counting	Net benefit accrued to the economy due to the Proposed Activities in the Forest land proposed for diversion over 50 years shall be :**Rs 240000 Lacs**
2	Benefits of economy due to the specific project	The incremental economic benefit in monetary terms due to the activities attributed to the specified project	
3	Number of population benefited due to specific project	As per detailed project report	A population of about 1000000 residing in nearby areas shall be benefited due to this Proposed Airport.
4	Employment benefits due to of direct and indirect employment due to the project	As per detailed project report	350 employment will be generated: employment for 150 Persons @ Rs. 6,00000/- (average annual income) for a period of 50 years = Rs. 150 X 600000 X 50 = **Rs. 45000 Lacs**
5	Economic benefits due to compensatory afforestation	benefit from such compensatory forestation accruing over next 50 year monetized and discounted to the present value should be included as benefits of CA	-

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Cost			Benefit		
S.N	Parameter	Amount (in Lacs)	Sr.No.	Parameter	Amount (in Lacs)
1	Ecosystem services losses due to proposed forest diversion	2920.8659	1	Benefits to economy	240000
2	Loss of animal husbandary productivity incluiding loss of fodder	292.0866	2	Economic benefit due to employment	45000
3	possession value of forest land diverted	876.2598			
4	Habitat Fragmentation Cost	1460.4330			
5	compensatory afforestation and soil & moisture conservation cost	899.1228			
6	Cost of the project	120000.7681			
	Total Cost	**126448.7681**		Total Benefit	**285000.0000**

Cost Benefit Ratio :- Total Benefit/Total Cost = 285000/ 126448.7681 = **2.2539**

The Benefit Cost ratio is > 1, the project is found viable on given/above described criteria

Place : Kota

Date: 28.12.2021

Signature of User Agency

Office Seal

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Counter signed by:-

Divisional Forests Officer

Bundi Forest Division

Office Seal_____