Full Title of the Project- Diversion of 189.2515 Hectare Forest land of Block A and B Village Paharpur Tehsil Roopwas District Bharatpur

Proposal No.

: FP/RJ/MIN/149012/2021

Date of Proposal

: 03.11.2021

Applied Forest Area: 189.2515 Hectare

Cost Benefit Analysis Report

Table-A: Estimation of cost of Forest diversion

SL	Parameters			
No	i didiffeters	Remarks		
1	Ecosystem services losses due	Economic value of loss of one sustained		
	to proposed forest diversion	Economic value of loss of eco-system services due to diversion of forest Block A & B in village Paharpur Tehsil Roopwas District Bharatpur Rajasthan shall be Ps 957780/ha (NPV rateas per ECO Value of OpenForest Class III as per Guideline of MoEF&CC		
2		Total Forest area: 189.2515Ha. 1. Environmental loss: 189.2515x 957780 = Rs. 1812.6131 Lacs		
2	Loss of animal husbandry productivity, including loss of fodder	10% of NPV (Rs.1812.6131 Lacs X 10%) = Rs. 181.2613 Lacs.		
3	Cost of human resettlement	NIL		
4	Loss of public facilities and administrative infrastructure (roads, building, schools' dispensaries electric lines, railways, etc.) on forest land if these facilities were diverted due to the project	NIL		
5	Possession value of forest land diverted	The possession value of forest land diverted is taken as 30% of NPV due to loss of forest = 30% X Rs 957780 X 189.2515= Rs. 543.7839 Lacs		
6	Cost of suffering to outsees	NIL		
7	Habitat Fragmentation Cost	50%,of NPV (Rs.1812.6131 Lacs X 50%) = Rs. 906.3066 Lacs		
8	Compensatory afforestation and soil & moisture conservation cost	As per proposed by DFO, Bharatpur Compensatory afforestation and soil & moisture conservation cost Rs. 1874.1576 Lacs.		

Total cost due to diversion of Forest land

= (Rs 1812.6131 + Rs. 543.7839 + Rs. 181.2613 + Rs. 906.3066) Lacs = Rs. 3443.9649 Lacs

This Cost Benefit Analysis Report as on above has been prepared strictly in accordance with FCA guidelines dated 28-03-2019 and as per later amendments issued by MoEF

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Table-B: Existing Guidelines For Estimating Benefits of Forest Diversion in CBA

S. No	Parameters	Remarks		
1	Increase in productivity attributable to the specific Project	Total quantity of Mineral Sandstone produced 280(Recovery 60%) lac tonnes @ Rs. 450/tonnes = 168 X 450 = 75600 lacs for entire period of 50 years		
2	Benefits of economy due to the specific project	sandstone produced in the area used in RICCO Industrial Area the current sale value of sandstone Block is approximately Rs 1500 / tonne a) Royalty on sandstone is Rs 240/tonne =67200 lacs b) DMFT 10% of Royalty = 6720 lacs c) RSMET 2% of Royalty = 1344 lacs d) Dead Rent = 44.58 lacs (Approx.)		
3	Number of populations benefited due to specific project	For entire period 50 years About 2040 person per year can sustain on this project		
4	Employment benefits due to of direct and indirect employment due to the project.	40 Persons can be employed directly & 2000 persons will get indirect employment.		
5	Economic benefits due to compensatory afforestation	Nil		
6	Loss of (a) Agriculture & (b) Animal Husbandry production due to diversion of forest land	Not applicable as there is no agricultural production and animal husbandry production in this area		
7	Cost of rehabilitating the displaced persons as different from compensatory amounts given for displacement	Nil		

Total benefit due to diversion of Forest land for non-forest activity = (Rs 67200 + Rs 6720 + 1344 + 44.58) Lacs = Rs. 75308.58 Lacs

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Table-C: Existing Guidelines For Estimating Benefits of Forest Diversion in CBA

S. No	Parameters	Citizen Cuid-lin	
1	Increase in productivity	Given Guidelines To be quantified and	Evaluation
	attributable to the specific	To be quantified and expressed in monetary	Net benefit accrued to the economy due to the
	Project	terms avoiding double	proposed activities in the
2	Benefits of economy due to	counting The incremental	forest land proposed for
	the specific project	The incremental economic benefit in	diversion over 50 year shall be Rs.75308 Lacs.
-		monetary terms due to the	ondi be 113.75506 Lacs.
		attributed to the specified project	-
3	Number of populations	As per detailed project	A population of about
	benefited due to specific project	report	50000 residing in rural
	p. ojoot	. 48	areas shall be benefitted
			due to this project and others on going CSR
4	Employment benefits due to		activities.
	of direct and indirect	As per detailed project report	
	employment due to the	report	. ,
5	project. Economic benefits due to	D 60	7
	compensatory afforestation		50 employee will be
	,,		generated employment for 50 @ 500000
		years monetized and	(average annual income)
	· · · · · · · · · · · · · · · · · · ·	discounts to the present	for a period of 50 Yrs. =
	;	as benefits of CA	50x500000 x 50 = Rs. 12500 Lacs

Cost			Benefit		
S.N.	Parameter	Amounts (Rs. in Lacs)	S.N.	Parameter	Amounts
1	Eco system services losses due to proposed forest diversion	1812.6131	1 ,	Benefits to economy	(Rs. in Lacs) 75308.58
2	Loss of animal husbandry productivity	181.2613	2	Economic benefit	12500
3	Possession value of forest land diverted	543.7839		due to employment	
4	Habitat fragmentation cost	906.3066			
5	Compensatory afforestation and soil and moisture conversion cost	1874.1576			
6 ,	Cost of the project	5318.1225		Total benefit	87808.58

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SUMMARY OF COST BENEFIT ANALYSIS FOR THE PROJECT FOR 50 YEARS

Based on the value of products:

a) Total Benefit: Rs 87808.58 lacs

b) Total Cost: Rs 3443.9649 Lacs
Cost Benefit Ratio= Total Benefit
Total Cost

= 87808.58/3443.9649

= 25.4963

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