Cost Benefit Analysis for

PRABHUDHANA TANK SCHEME PROJECT

On the basis of Guidelines for forest land diversion 2017

Table-A Cases under which a cost benefit analysis for forest diversion are

No.	Nature of proposal	Applicable/not applicable	Remark
1	All categories of proposals involving forest land up to 20 hectares in plains and up to 5 hectare in hill	Not applicable	
2	Proposal for defense installation purposes and oil prospection (Prospecting only)	Not applicable	
3	Habitation, establishment of industrial units, 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 project's mining activity railway lines, location specific installations like micro-wave station, auto repeater centers, TV towers etc.	Not applicable	

required

Table-B Estimation of cost of forest diversion

0.	Nature of proposal	Remark
1	Ecosystem services losses due to	Ecosystem services losses due to diversion of
	proposed forest diversion	forest land suggested by the Central Powered
		Committee as per the forest classification
		report of proposed Prabhudhana Tank
		Scheme is Rs. 2.91 Lakh / Ha
		Cost of Land :
		= 7.002 x 2.91 = Rs. 20.37 Lakh.
2	Loss of animal husbandry	As per the cost benefit guideline i.e. 10% of
	productivity, including cost of	N.P.V. 0.291 Lakh per Ha.
	fodder	= 7.002X0.291=Rs 2.04Lakh
3	Cost of human resettlement	There is no numan settlement are
		proposed Prabhudhana Tank Scheme hence
		cost of Human resettlement is Nil
4	Loss of public facilities and	There is no loss of public ruemeres
	administrative infrastructure	administrative infrastructure of forest land
	(Roads, building, schools,	due to construction of Prabhudhana Tan
	dispensaries, electric lines,	Scheme, no cost has been added on thi
	railways, etc) on forest land,	account.
	which would require forest land if	
	these facilities were diverted due	
	to the project.	
5	Possession value of forest land	The possession value of forestland diverted
	diverted.	taken 30% of the N.P.V. due to loss of lores
		i.e. 0.873 Lakh/Ha.
		= 7.002x 0.873 = Rs. 6.11 Lakh
6	Cost of suffering to oustees	Not applicable
-		Forest land is being acquired for construction
7	Habutal Fragmentation cost	of dam. Submergence & spill channel
		of dam. Submergence & spin channel
		Prabliuulialia failt Scheme file
		amount is taken under this account.
8		The cost @ Rs. 4.00 Lakh per Ha. Is take
	soil & moisture conservation cost.	compensatory afforestation and son moistu
		conservation Hence amount will be : = 7.00
		x 4.00 = Rs. 28.01 Lakh
9	Total cost due to forest land	d Total cost due to forest land diversion f
		Prabhudhana Tank Scheme will be :
	diversion	= 20.37 + 2.04 + 6.11 + 28.01 = 56.53 Lakh

Table-C Existing guidelines for estimating benefits of forest-

diversion in CBA

No.	Nature of proposal	Remark
1	Increase in productively attribute	The crop production benefit due to
	to the specific project.	Prabhudhana Tank Scheme will be
		Rs.1098.58 Lakh in designed life of
		100 years & water level will be
		increase economy growth of the
		project.
2	Benefits to economy due to the	Prabhudhana Tank Scheme will trigger
e.	specific Project.	economy development and also
		influence with irrigation facility to a
	-	land of 350 Ha. In the surrounding
		area irrigation is proposed by Canal
2		system.
3	No. of population benefited due	Project is located in backward area of
	to specific project.	the village. After completion of
		project, 135 cultivators will be
		benefitted and water level will be
		increased in surrounding area.
4	Economic benefits due to direct	The Project will provide direct
	and indirect employment due to	employment for approximate 300
2	the project.	people (12 Month) during
F	Francis I. Cit. I.	construction period.
5	Economic benefits due to	An economic benefit due to
	Compensatory afforestation.	compensatory afforestation has been
		considered as per the benefit of C.A.
		guidelines of ministry for N.P.V.
		estimation.

Prabhudhana Tank Scheme

Cost Benefit Analysis

	(A) Pre development crop production benefits (Rs. Lakh)	÷	
	(B) Post development crop production benefits (Rs. Lakh)	-	19.71
	(I) Total crop production benefits (Rs. Lakh)	-	155.87
((I) Total crop production benefit due to project (B-A) C) Total Cost of the project 	-	136.16
	1. Annual Maintenance cost @ Rs. 250/Ha for CCA 350 Ha.	-	1098.58
	2. Interest on capital 10%	-	0.875
	3. Depreciation Charges 1%	-	109.86
(I) Total Charges (1+2+3)		10.98
	Net benefit from project (I-II)	-	121.71
	Profit for 50 years	-	14.45
([-	722.50
	Benefit Ratio of Project	-	56.53
		_	12.78

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