

कार्यालय प्रधान मुख्य वन संरक्षक (कक्ष-भू प्रबंध), सतपुड़ा भवन, मध्यप्रदेश, भोपाल

क्रमांक/एफ-3/101/2021/10-11/12/1430

भोपाल, दिनांक 10/04/23

प्रति,

वन महानिरीक्षक (एफ.सी.)

भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय,

इंदिरा पर्यावरण भवन, अलीगंज,

जोरबाग रोड, नई दिल्ली-110003

विषय:-जिला सागर के अन्तर्गत आपचंद मध्यम सिंचाई परियोजना के निर्माण हेतु 181.39 हेक्टेयर (आनलाईन रकबा 182.16 हे0) वनभूमि जल संसाधन विभाग को उपयोग पर देने बाबत।

संदर्भ:-भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली का पत्र क्रमांक 8-20/2022-FC दिनांक 16.03.2023

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विषयांकित प्रकरण मे भारत सरकार द्वारा संदर्भित पत्र से चाही गई अतिरिक्त निम्न बिन्दुओं की जानकारी आवेदक विभाग से प्राप्त की जाकर संलग्न प्रस्तुत है :-

क्रं	चाही गई जानकारी	उत्तर
1	The State Govt. informed that the total land involved in the instant proposal is 597.55 ha. Out of 597.55 ha land, 182.16 ha is Forest land, 53.36 ha is Government land and 362.02 ha is Non-forest/ Private land. Therefore, necessary corrections shall be carried out in the component wise breakup given in online Part-I.	आवेदक विभाग द्वारा आनलाईन भाग-1 के बिन्दु क्रमांक B-2.4 में component wise breakup में परियोजना अंतर्गत प्रभावित कुल 597.55 हेक्टेयर भूमि के विवरण में संशोधन उपरान्त प्रवृष्टियां की गई है।
2	The State Govt. has submitted revised Cost-Benefit Analysis. However again the cost mentioned against parameters like Habitat fragmentation is not as per the prescribed guidelines. The same needs correction and revision accordingly.	आवेदक विभाग द्वारा संशोधित Cost-Benefit Analysis पत्रक को आनलाईन भाग-1 के बिन्दु क्रमांक G(1)(a) में अपलोड किया गया है। सुलभ संदर्भ हेतु छायाप्रति संलग्न है।

अतः अनुरोध है कि प्रकरण में भारत सरकार की सैद्धांतिक स्वीकृति प्राप्त कर अवगत कराने का कष्ट करें।

संलग्न:-उपरोक्तानुसार।

10/4/23

(सुनील अग्रवाल)

प्रधान मुख्य वन संरक्षक (भू-प्रबंध)

मध्यप्रदेश, भोपाल

भोपाल, दिनांक 10/04/23

पृ. क्रमांक/एफ-3/101/2021/10-11/12/1431

प्रतिलिपि:-

1. मुख्य वन संरक्षक, (क्षेत्रीय) सागर वृत्त सागर, मध्यप्रदेश।

2. वनमंडलाधिकारी, सा0 वन मण्डल, दक्षिण सागर, मध्यप्रदेश।

3. कार्यपालन यंत्री, जल संसाधन संभाग क्र.-1, जिला सागर, मध्यप्रदेश।

की ओर सूचनार्थ एवं आवश्यक कार्य हेतु अग्रेषित।

10/4/23

प्रधान मुख्य वन संरक्षक (भू-प्रबंध)

मध्यप्रदेश, भोपाल

# Cost Benefit Analysis for APCHAND MEDIUM IRRIGATION PROJECT

On the basis of Guidelines for forest land diversion 2018

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

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 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 microwave station, auto repeater centres, TV towers etc.	<b>Applicable</b>	These are cases where a cost benefit analysis is necessary to determine when diverting the forest land to non-forest use of overall public interest. The <b>Apchand Medium Irrigation Project</b> falls under this category.



**Table-B Estimation of cost of forest diversion**

No.	Nature of proposal	Remark
1	Ecosystem services losses due to proposed forest diversion	Ecosystem services due to diversion of forest land suggested by the Central Powered Committee as per the forest classification report of proposed Apchand Medium Irrigation Project is Rs.9.58 Lakh/Ha Cost of Land:= $182.16 \times 9.58 = \text{Rs.}1745.09 \text{ Lakh.}$
2	Loss of animal husbandry productivity, including cost of fodder.	As per the cost benefit guideline i.e 10% of N.P.V. 0.958 Lakh per Ha. $= 182.16 \times 0.958 = \text{Rs.} 174.51 \text{ Lakh}$
3	Cost of human resettlement	There is no human settlement due to the proposed Apchand Medium Irrigation Project. Hence the cost of human resettlement is NIL.
4	Loss of public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric lines, railways, etc.) on forest land, which would require forest land if these facilities were diverted due to the project.	There is no loss of public facilities and administrative infrastructures of forest land due to construction of Apchand Medium Irrigation Project, no cost has been added on this account.
5	Possession value of forestland diverted.	The possession value of forestland diverted is taken 30% of the N.P.V. due to loss of forest i.e 2.87 Lakh / Ha. $= 182.16 \times 2.87 = \text{Rs} 522.80 \text{ Lakh}$
6	Cost of suffering to oustees	Not applicable
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. Hence, 50% of N.P.V.= 4.79 Lakh per Ha. $= 182.16 \times 4.79 = \text{Rs.} 872.54 \text{ Lakh}$
8	Compensatory afforestation and soil & moisture conservation cost	The cost @ Rs 4.00 Lakh per Ha. is taken compensatory afforestation and soil moisture conservation Hence amount will be: $= 182.16 \times 4.00 = \text{Rs.}728.64 \text{ Lakh}$
9	Total cost due to forestland diversion.	Total cost due to forest land diversion for Apchand Medium Irrigation Project in lakhs will be: $=1745.09+174.51+522.80+872.54+728.64 = 4043.58 \text{ Lakh}$


**APCHAND MEDIUM IRRIGATION PROJECT**  
**COST BENEFIT ANALYSIS**

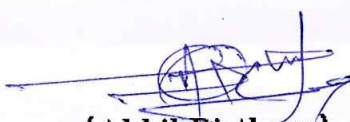
Total Cost due to forest land : 4043.58 Lakhs

Total Benefit due to Project : 4742.25 Lakhs

Benefit Cost Ratio of the Project : 1.172

  
**Sub-Engineer**

  
**(Nishesh Goswami)**  
Subdivisional Officer  
W R Subdivision No. 3  
Garhakota

  
**(Akhil Birthare)**  
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