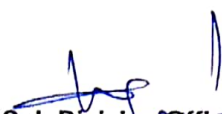


# MENDA MEDIUM PROJECT

## COST BENEFIT ANALYSIS

A	Pre development crop production benefits	Rs Lakh	348.00
B	Post development crop production benefits	Rs Lakh	3420.00
(I)	Total Crop production benefit due to project (B-A)	Rs Lakh	3072.00
C	Total Cost of the Project	Rs Lakh	26871.00
1	Annual Maintenance cost @ Rs 250 / Ha for CCA 5800		14.50
2	Interest on Capital 10%	Rs Lakh	2687.10
3	Depreciation Charges 1%	Rs Lakh	268.71
(II)	Total Charges (1+2+3)	Rs Lakh	2970.31
	Net benefit from Project (I-II)	Rs Lakh	101.69
	Profit for 50 Years	Rs Lakh	5050.00
D	Total cost due to forest land diversion	Rs Lakh	163.00
	Benefit Ratio of Project	Rs Lakh	4.63

  
**Sub Division Officer**  
 Water Resources Sub Division  
 Ghoradongri

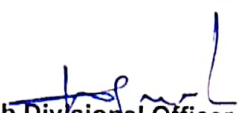
  
**Executive Engineer**  
 Water Resources Division No. II  
 Betul


**COST BENEFIT ANALYSIS FOR  
MENDA MEDIUM PROJECT**

On the basis of Guidelines for forest land diversion 2017

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

S.No.	Nature of Proposal	Applicable / not applicable	Remark
1	2	3	4
1	All categories of proposals involving forest land up to 20.00Ha. In plains and up to 5.00ha in hill	Not Applicable	-
2	Proposal for defense installation purpose 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 20.00Ha in plains and more than 5.00ha in hills including roads, transmission lines, Minor, medium and Major Irrigation Projects mining activity Railway lines, location specific installations like micro – wave station auto repeater centers, TV towers etc	Not Applicable	-

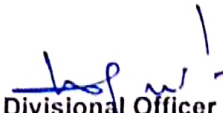
  
Sub Divisional Officer  
Water Resources Sub Division  
Ghoradongri


  
Executive Engineer  
Water Resources Division No II  
Betul

## MENDA MEDIUM PROJECT

Table - B Estimation of Cost of Forest Diversion

S.No.	Nature of Proposal	Remark
1	2	3
1	Ecosystem services losses due to proposed forest diversion	Ecosystem services losses due to diversion of forest land suggested by the Central Powered Committee as per the forest classification report of proposed Menda Medium Project Scheme is Rs 2.91 Lakh  Cost of Land : 20.14 x 2.91 = 58.61 Lakh
2	Loss of animal husbandry productivity including cost of fodder	As per the cost benefit guideline i.e. 10% of NPV 0.291 Lakh per Ha 20.14 x 0.291 = 5.86 Lakh
3	Cost of human resettlement	There is human settlement due to proposed Menda Medium Project Tank scheme hence cost of Human resettlement is Rs 940.00 Lakh
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 infrastructure of forest land due to construction of Menda Medium Project scheme no cost has been added on this account
5	Possession value of forest land diverted	The possession value of forest land is taken 30% of the NPV due to loss of forest i.e. 0.873 Lakh / Ha 20.14 x 0.873 = 17.582 Lakh
6	Cost of suffering to oustees	Not Applicable
7	Habitat Fragmentation cost	Forest land is being acquired for construction of dam. Submergence Menda Medium Project there is no amount is taken under this account
8	Compensatory afforestation and soil and moisture conservation cost	The cost @ Rs 4.00 Lakh per Ha is taken compensatory afforestation and soil moisture conservation. Hence amount will be 20.14 x 4 = 80.560 Lakh
9	Total cost due to forest land diversion	Total cost due to forest land diversion for Menda Medium Project will be  <div style="text-align: right; border: 1px solid black; padding: 2px;">Total :- 162.610 Lakh</div> Rs 1.63 Crore

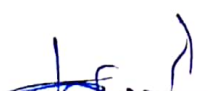
  
 Sub Divisional Officer  
 Water Resources Sub Division  
 Ghoradongri

  
 Executive Engineer  
 Water Resources Division No II  
 Botul

## MENDA MEDIUM PROJECT

Table-C Existing Guidelines for estimating benefits of forest

S.No.	Nature of Proposal	Remark
1	2	4
1	Increase in productively attribute to the specific project	The crop production benefit due to Menda Medium Project will be Rs 26871.00 Lakh in designed lift of 100 year and water level will be increase economy growth of the project
2	Benefits to economy due to the specific project	Menda Medium Project will trigger economy development and also influence with irrigation facility to a land of 5800ha in the surrounding area irrigation is proposed by Canal system
3	No of population benefited due to specific project	Project is located in backward area of the village. After completion of project 4800 cultivators will be benefitted and water level will be increased in surrounding area.
4	Economic benefit due to direct and indirect employment due to the project	The project will provide direct employment for approximate 900 people (36 Month) during construction period
5	Economic benefit due to compensatory afforestation	An economic benefit due to compensatory afforestation has been considered as per the benefit of CA guidelines of ministry for NPV estimation

  
**Sub Divisional Officer**  
 Water Resources Sub Division  
 Ghoradongri

  
**Executive Engineer**  
 Water Resources Division No II  
 Betul