

## PARAMETERS OF EVALUATION OF COST - BENEFIT ANALYSIS OF FORESTS

APPLICATION FOR DIVERSION OF 104.095 Ha. OF FOREST LAND

S.I. No.	Evaluation of Loss of Forests	Value in Rs. Lakhs Per Annum	REMARKS
1	Loss of value of timber, fuelwood and minor forest produce on an annual basis, including loss of man-hours per annum of people who derived livelihood and wages from the harvest of these commodities.	1.353 0.833 0.937 0.468 38.885	1) The value of Loss of timber (@ Rs. 1300 per Ha.) 2) The value of loss of fuel wood (@ Rs. 800 per Ha.) 3) The value of loss of minor forest produce a) Tunikai (@ 30 Kg. / Ha. And Rs. 30 per Kg.) b) Other minor forest produce such as gum, mohva flowers, etc. @ 30 Kg. / Ha. And Rs. 15 per Kg.) 4) Loss of mandays (@ 100 days per Ha. and Rs.373.55 per day)
	Sub-Total (1)	42.476	
2	Loss of animal husbandry productivity including loss of fodder	NIL	Nil, as there is no habitation nearby to the site.
3	Cost of human resettlement	NIL	There is no habitation in the forest land and hence human resettlement is nil.
4	Loss of public facilities and administrative infrastructure (Roads, buildings, schools, dispensaries, electric lines, railways, etc.,) on forest land, or which would require forest land if these facilities were diverted due to the project.	NIL	No loss of public facilities and administrative infrastructure as it is a reserve forest land
5	Environmental losses; (Soil erosion effect on hydrological cycle, wild life habitat, micro-climate upsetting of ecological balance).	150.730	The total forest land is degraded. Environmental Loss per annum = $(181 \times 0.4 \times 104.095)/50$ The area is not important from ecological point of view.
6	Suffering to oustees	NIL	There is no habitation and hence suffering to the oustees does not arise.
7	Cost/Net present worth of forest land (only in case of permanent diversion such as irrigation, roads, transmission lines, other infrastructures etc.,		Not Applicable.
8	Loss to right holders/ free grant/ other concessions enjoyed from forest land		Nil. as there are no right holders
TOTAL LOSSES		193.206	

Divisional Forest Officer  
Bellampalli Division

  
General Manager  
Singareni Collieries Company limited,  
Mandamarri Area

**General Manager**  
The Singareni Collieries Co. Ltd  
MANDAMARRI  
P.O. KALYANI KHANI-504 231,  
Dist. Adilabad.(A.P)

## ANNEXURE IX

**PARAMETERS OF EVALUATION OF COST - BENEFIT ANALYSIS OF FORESTS  
APPLICATION FOR DIVERSION OF 104.095 Ha. OF FOREST LAND**

Sl. No.	Evaluation of Benefits	Value in Rs. Lakhs Per Annum	Rs. Lakhs Per Annum	R E M A R K S
1	Increase in productivity attributable to the specific project.	17550.68		Production is 2667 T per day with Output per manshift (OMS) of 4.81 Tonnes of coal per Manshift.
2	Benefits to the Economy	6622.73	Of this, 4359.60 180.00 1143.07 880.20 59.85	Royalties Stowing Excise Duty Sales Tax on coal Excise and Sales Tax from stores related purchases Excise duty on power purchased
3	No. of population benefited.			Total population benefitted is estimated at 19620 assuming an average family size of 5 and also considering both direct and indirect employment potential.
4	Employment potential			Direct employment of 654 at project level. Additional employment benefits would be approximately 5 times the direct employment. Total benefit is estimated at the minimum wage of Rs. 373.55 per day and 330 working days (Rs.4030.97805lakh).
5	Benefit accrued due to non-diversion of agricultural land			As the area is site specific the question of non-diversion of agricultural land does not arise.
6	Benefits to the forest due to free supply of fuel/alternate sources of energy	35.32		The workers are supplied free LPG gas The same is estimated as Rs.35.316 lakh
<b>TOTAL</b>		<b>24208.73</b>		


RS. LAKH

Discounted at 12.00% for 19 years life

TOTAL BENEFITS	178896
TOTAL LOSSES	1428
COST : BENEFIT RATIO	1 :
	125.30

- Note:
- 1) The Cost Benefit Ratio is restricted to 19 years.
  - 2) The annual Costs and Benefits are discounted at 12.00%

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