


## **COST BENEFIT ANALYSIS RATIO**


|                        |    |                       |
|------------------------|----|-----------------------|
| ❖ Benefit to economy   | :- | Rs 14,126,45,92,800/- |
| ❖ Loss on Forests      | :- | Rs 746,27,26,744/-    |
| ❖ Cost - Benefit Ratio | :- | 1: 18.86457247        |

  
महाप्रबन्धक  
हिंगुला क्षेत्र  
General Manager  
Hingula Area

## ESTIMATE BENEFIT OF PROJECT

TOTAL PRODUCTION CAPACITY : 15 MT  
YEAR OF LIFE : 49 YEARS  
TOTAL COAL RESERVE : 712134000 Te  
RATE OF COAL PER TONNE : Rs 1066 per Te  
PROFIT TO PROJECT : Rs 196.67per Te

| Sl no. | Parameters  | Remarks  |
|--------|---|--|
| 1.     | Increase in productivity attribute to the specific project                  | 71,21,34,000 Te x Rs. 1066/- per Te = 7,59,13,48,44,000      |
| 2.     | Benefit to the economy due to the specific project                          | 71,21,34,000 Te x Rs. 196.67/- per Te = 1,40,05,50,00,000    |
| 3.     | No. of population benefitted due to specific project                        | 10,000 Nos   |
| 4.     | Economic benefits due to direct and indirect employment due to the project. | 3715 Nos   |
| 5.     | Economic benefits due to compensatory Afforestation                         | Rs 1040000.00 x 193.845 Ha x 12 % x 50 Years = Rs 1209592800 |
|        | Total (S no2 + Sl no. 5)  | Rs 1,41,26,45,92,800/-                                       |


  
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## COST BENEFIT ANALYSIS GUIDELINES FOR FOREST LAND DIVERSION – 2019

ESTIMATION OF COST OF FOREST DIVERSION:-

THE ESTMATED NPV OF THE FOREST LAND: 10,40,000/-

| S No. | Parameters   | Remarks   |
|-------|--|---|
| 1.    | Ecosystem losses due to proposes forest diversion.   | Rs. 10,40,000/- x 193.845 = Rs. 20,15,98,800  |
| 2.    | Loss of animal husbandry productivity, including loss of fodder  | 10 % of NPV = Rs 2,01,59,880  |
| 3.    | Cost of human resettlement   | 3715 Project displaced families x Rs10,19,000/- R & R package each<br>= Rs.3785585000/- |
| 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 project | Rs. 00.00   |
| 5.    | Possession value of forest land diverted   | 30 % of NPV= Rs.6,04,79,640   |
| 6.    | Cost of suffering to Oustees   | Rs. 2173600000 x 1.5<br>= Rs. 3260400000/-  |
| 7.    | Habitat fragmentation cost   | 50% of NPV =10,07,99,400  |
| 8.    | Compensatory afforestation and soil & moisture conservation cost   | Rs. 173871 x 193.845 Ha.<br>= Rs. 33704023.995/-  |
|       | <b>Total Cost :</b>  | <b>Rs.746,27,26,744/-</b>   |

  
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