



The Andhra Pradesh Mineral Development Corporation Limited

(A State Government of A.P. Undertaking)

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Date: 13-06-2018

Cost Benefit Analysis in respect of Diversion of 259.239 Ha Forest Land (Protected Forest : 143.953 Ha, Reserve Forest : 82.396 Ha & Revenue Forest : 32.89 Ha) of Suliari Coal Mine, Singrauli Coalfield (Main Basin), Madhya Pradesh of M/s Andhra Pradesh Mineral Development Corporation Limited

(As per new guidelines dated 01.08.2017 issued by MOEF&CC, Govt. of India)

Proposal No. : FP/MP/MIN/28619/2017 Dated : 21/08/2017

Table - B : Estimation of Cost of Forest Diversion

Sl. No.	Parameters	Remarks	Cost (in Rs.)
1	Ecosystem Services Loss due to proposed forest diversion	Economic Value of Loss of Ecosystem Services due to proposed diversion of Forest - NPV amount of forest land being diverted as prescribed by central Govt. (MoEF&CC)	207391200
2	Loss of animal husbandry productivity including loss of fodder	To be quantified and expressed in monetary terms or 10% of NPV applicable whichever is maximum	20739120
3	Cost of Human Resettlement	To be quantified and expressed in monetary terms as per approved R & R Plan	685581000
4	Loss of public facilities and administrative infrastructure (roads, buildings, schools, dispensaries, electric lines, railways etc.) on forest land, which would require forest land if these facilities were diverted due to project	To be quantified and expressed in monetary terms on actual cost basis at the time of diversion	Nil
5	Possession Value of forest land diverted	30% of environmental cost (NPV) due to loss of forests or circle rate of adjoining area in the district should be added as a cost component as possession value of forest land whichever is maximum	62217360
6	Cost of suffering to outees	The social cost of rehabilitation of outees (in addition to the cost likely to be incurred in providing residence, occupation, and social services as per R & R Plan) be worked out as 1.5 times of what outees should have earned in two years had he not been shifted	60345000

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Sl. No.	Parameters	Remarks	Cost (in Rs.)
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 considered as 50% of NPV applicable as a thumb rule	103695600
8	Compensatory afforestation cost and soil & moisture conservation cost	Actual cost of compensatory afforestation & its maintenance in future at present discounted value	129619500
		Cost of soil & moisture conservation	166431438
Total			1436020218

Table -C : Estimation of Benefits of Forest Diversion

Sl. No.	Parameters	Remarks	Benefits (in Rs.)
1	Increase in productivity attribute to the specific projects	Quantified and expressed in monetary terms avoiding double counting	Nil
2	Benefits to the economy due to specific project	The incremental economic benefit in monetary terms due to the activities attributed to the specific project	20684756400
3	No. Of Population benefitted due to the specific project	As per Mining Plan	Direct Employment : 1157 Indirect Employment : 3000
4	Economic Benefits due to direct and indirect employment due to the project	As per Mining Plan	Employment will be generated for the affected people due to project which is beneficial to the economy
5	Economic Benefits due to compensatory afforestation	Benefits from compensatory afforestation accruing over next 50 years monetized and discounted to the present value has been included as benefits from compensatory afforestation	1950773475
Total			22635529875
Cost Benefit Ratio (Rs. 1436020218/Rs. 22635529875) =			1: 15.76

The above figures are provided by M/s. MECON LTD and are subject to changes they are provisional

27.6.2018
Executive Director
APMDC

No 13/6/18
General Manager (Coal) *APMDC* General Manager (Finance) *APMDC*

Suhail
CSR Officer
APMDC