

Chapter- 9

ENVIRONMENTAL COST BENEFIT ANALYSIS

The total capital investment on Environment control measures is estimated as Rs. 2677.50 lakh for hiring option, the break-up of which is given below-

PLANT AND MACHINERY-

A) HEMM-

It is proposed that the reclamation of land will be done contractually in hiring option and therefore no provision of HEMM has been made.

The following budgetary provision has been made for environmental control measures-

| | |
|--|-------------------------|
| • Capital | |
| • ETP | Rs. 20.00 Lakh |
| • Biological Reclamation | Rs. 50.00 Lakh |
| • Pollution Control Measures | <u>Rs 25.00 Lakh</u> |
| Sub-total | Rs. 95.00 Lakh |
| • Green Belt Development | Rs. 20.00 Lakh |
| • EMP preparation | Rs. 20.00 Lakh |
| • Revenue cost/year | Rs. 50.00 Lakh |
| • Mine closure Fund (proposed) | Rs. 2.50/tonne |
| • R & R (Rehabilitation of NEC & private quarters) | Rs. Nil |
| • Forest land Compensation | |
| • NPV of forest land | Rs 2350.00 Lakh |
| • Compensatory Affores. | Rs. 125.00 Lakh |
| • Enrichment of Safety zone | <u>Rs 62.50 Lakh</u> |
| Grand Total | Rs. 2697.50 Lakh |

Statement showing environment related costs with year wise phasing is given below:

Amount in Lakhs

| Sl. No. | Item | Total Cost | Phasing | | | | | |
|---------|--|--------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------|
| | | | 1 st yr. | 2 nd yr | 3 rd Yr | 4 th Yr | 5 th Yr | Beyond Yr. 5 |
| 1 | Pollution abatement cost (Pollution Monitoring & Control facilities) | 25.00 | - | - | - | 7.50 | 7.50 | 10.0 |
| 2 | Effluent treatment plant | 20.00 | - | - | 10.0 | 10.0 | - | - |
| 3 | Green belt development | 20.00 | - | - | 4.0 | 4.0 | 4.0 | 8.0 |
| 4 | Biological reclamation | 50.00 | - | - | - | 10.0 | 10.0 | 30.0 |
| | Total | 115.0 | - | - | 14.0 | 31.50 | 21.50 | 48.0 |

R&R package – No R&R is required as because there is no habitat in the core zone.