



Sustainable Development Frame Work Report: 2021-22



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MURGABEDA IRON ORE MINES

SRI. D.R. PATNAIK

Vill: Deojhar, Dist: Keonjhar, Odisha





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Introduction:

Murgabeda Iron Ore Mines of Sri. D.R Patnaik over an area of 15.378 hectares is located in the Murgabeda Village under Barbil Tahasil of Keonjhar ,Odisha.

Communication:

- Road Link:** The Bileipada-Noamundi road is adjoining to the lease area is well connected to NH-215 at Bileipada is about 8km from the lease area.
- Rail Link :** Deojar railway station is 3 Km away from the lease area..
- Air Link :** Bhubaneswar airport (300 km away) is the nearest airport from the area. There is an airstrip/ helipad near Bhadrasai, Barbil.

Topography

The lease area under reference is marked by a north-south trending hill range.

The highest altitude in the area is 658.0m at south-western corner of the applied

M.L area and the lowest altitude is 555m is at the north-eastern corner. General slope of the area is towards east. There is no perennial nala within the M.L area.

A seasonal nala flows from west to east.

Drainage pattern

As far as drainage pattern is concerned, dendritic pattern can be observed regionally in the lease area and its surrounding area. There is no perennial nala flowing within the lease area. A seasonal nala is flowing within the lease area in the southern part of the lease area. The perennial nala namely murga –nala is flowing at a distance of 1km away from the lease

Mining operation is general, as drilling blasting, excavation, hauling, mineral processing through Screen, crusher and washing plant, mineral stacking and mineral logistic. Mineral logistic is being carried out through wagon from public railway sidings. The mines to railway siding logistic is managed with local tippers.

The project is very strictly following all statutory compliances of MoEF& CC, IBM, DGMS, CGWA/CGWB, SCPB/CPCB.





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Sustainable Development Framework:

In a bid to ensure minimal impact of iron ore mining on the environment and human settlement, the Union Ministry for Mines has implemented a “Star Rating” system for mining leases to promote sustainable development practices, which includes addressing the social impact of resettlement and rehabilitation and key information’s of the mining activity like mines basic information’s, environmental safe guard measures, CSR activities as a whole.

A Star Rating program is implemented to mining leases for the efforts and initiatives taken for implementation of the Sustainable Development Framework (SDF).

SDF provides guidance to mining companies to improve the performance not only with regard to environmental and social aspects, but also provides a common benchmark against the operations which can be evaluated in terms of comparative performance on sustainable development norms.

Inline to the said guidelines of the Govt., the company has constituted a Sustainable Development Unit (SDU) under SDF. The team comprises of different key personals of the organization involving Technical, Financial, CSR, HRD, Environment depts. The SDU is headed by Sri. Rama Chandra Mahapatra, Mines Manger, who is functional head of the organization having capacity of more than 15+ years of experience in the open cast mining field, Mr. Md. Vali Babu, Asst. Manager-Mines having expertise in the field of Mining with more than 4+ Years of experience, Mr. Arbinda Rout, Manager HR & CSR, having more than 8+ years’ experience in HR & CSR and Mr. Kirti Prakash Mishra , having more than 10+ years of experience in accounting. Mr. Satya Kaibalya Das, Engineer – Environment, expertise in the field of EIA-EM preparation, compliance management etc. with more than 5+ Years of experience.

The Company has made expenses of Rs. 61.02 lakhs for the financial year 2021-22. The project has implemented the funds under different CSR, Environment heads during the reporting period. Company adheres to the environment policies as subscribed there under with 100 % statutory clearance and compliances.

Murgabeda Iron Ore Mines of Sri. D.R Patnaik.





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Environment Management Program:

The key features under environment management program are as follows;

- Mines runoff management
 - o Check weirs
 - o Settling cum harvesting ponds
- Water Harvesting Measures
 - o Roof top rain water harvesting
 - o Village pond augmentation
- Air Pollution Control System
 - o Mobile water tanker for haul road dust suppression
 - o Dry fog system for Crusher & Screen Plants
 - o Green belt development
- Solid Waste Management
 - o Waste Dump management with application of coir matting, grass seed application, plantation etc.
 - o Dump slope stabilization with proper terracing, dozing, pressing, provision of retaining wall, garland drain and settling pond etc.
- Hazardous Waste Management
 - o Identification, Segregation, storage
 - o Disposal to authorized recycler/re-processor
- Environmental Mentoring
 - o AAQ
 - o Water (Surface, ground water)
 - o Noise
 - o Soil
 - o Illumination
 - o Ground vibration
 - o Plantation





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Corporate Social Responsibility:

The key landscapes under **Corporate Social Responsibility** are as follows;

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The key landscapes under **Corporate Social Responsibility** are as follows;

- Drinking water facility
 - o Overhead water tank with pipeline distribution facility
 - o Safe reach of Drinking water to remote villagers through water tankers
 - o Provision of bore wells
- Infrastructure
- Electrification of the tribal villages with street light
- Health and Hygiene
 - o 24 x 7 Medical facility with Doctor & free access of Ambulance
 - o Free distribution of medicines to locals
- Education
 - o Support of financial aid to school teachers.
 - o School transport facility





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Gallery: Photos of Environment



Photo showing water tanker sprinkling on road and dry fog system at screen plant



Photo showing tarpaulin cover on ore carrying vehicle





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Photo showing siltation cum percolation pond and garland drain



Photo showing guard wall to arrest silt going to nalla





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Photo showing ETP at site workshop



STP at staff campus and use of treated water for green belt development





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Display of Environmental parameters electronically at the entrance of mines



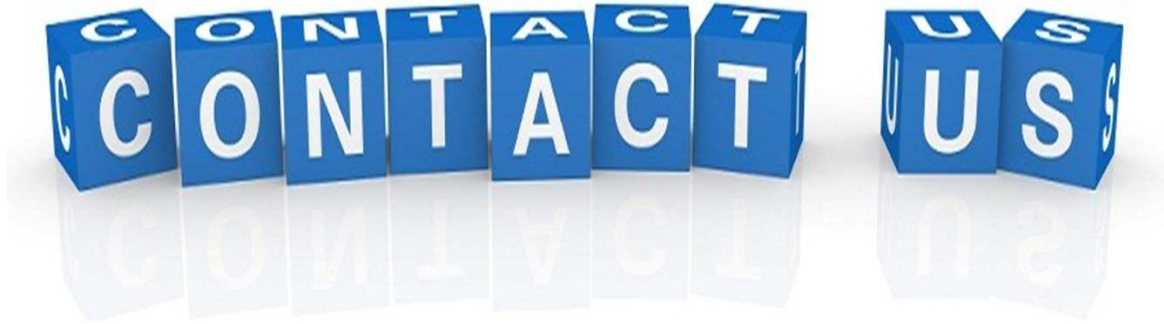
Photo showing plantation carried out in safety zone and grass patching

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Contact info of Key SDF Members

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|--------------------------------|---------------------|------------|
| 1) Mr. Rama Chandra Mahapatra, | Mines Manager | 9437057807 |
| 2) Mr. Rama Ranjan Bhuyan, | Asst. Manager Mines | 9438005467 |
| 3) Mr. Arbinda Rout, | Manager HR & CSR | 9437753199 |
| 4) Mr. Kirti Prakash Mishra, | Accounts | 9438525268 |

