



Sustainable Development Frame Work Report: 2018-19



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Unchabali Iron & Mn Mines Smt. Indrani Patnaik

At/PO – Unchabali, Bamebari, Keonjhar, Odisha
www.uimm-ip.com



Sustainable Development Frame Work Report: 2018-19

Introduction:

The Unchabali Iron & Mn. Mines of Smt. Indrani Patnaik is located in Unchabali & Balda village, Champua Region, Keonjhar District, Odisha. The mines operation was started in 2008 with a latest environmental friendly equipment and technology with well technically qualified team.

The M.L. area has an undulating topography with a prominent hillock in the central part of the Mahaparvat hill. A part of North-East portion is a valley of the hill. Altitudes vary between 515m RL (lowest) in the North-East portion of the lease to 710m RL (highest) in the central part of the lease.

The ML is holding plus 24.22 Mil. Ton iron ore reserve as per latest geology study report and it may extend during next geological study. The mines EC capacity is 4.00 MTPA iron ore production and 2.00 MTPA iron ore beneficiation. Iron Ore beneficiation plant is established within the ML area to upgrade low grade iron ore as marketable grade.

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, such as Nayagardh, Juridi and Banspani. 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.

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.





Sustainable Development Frame Work Report: 2018-19

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. A. Gurubalasubramaniam, Mines Manger, who is functional head of the organization having experience of more than 18 years in the open cast mining field. Mr. Sudhir Kumar Biswal, Manager – HR, having experience of more than 21 years, expertise in the Human resources fields. Mr. Trinath Mohapatra , Officer -CSR, having expertise in Social development work with more than 10 Years of experience. Mr. S. Jegan, Finance Officer, having more than six years experience in Finance and Accounting. Mr. Dharmateja, Officer – Environment, expertise in the field of EIA-EM preparation, Compliance Management etc. with more than three Years of experience. Mr. Pradeept Mahapatra, Sr. Manager – Geology, having more than 12 years of expertise in different ore sectors including Iron, Coal, granite, etc. & working profile of PSU sectors. Mr. G C Elavarasan , Sr. Engineer– Mechanical, having experience of the more than ten years with hands on skill to repair, maintenance, workshop activity of HEMMs, Volvos, 100 Tonner Dumper etc. & good working experience with MNCs.

The Company has made expenses of Rs. 220 lakhs (14%) out of Rs. 1742.83 Lakhs, which is 10% of the royalty value for the financial year 2018-19. 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.





Sustainable Development Frame Work Report: 2018-19

Environment Management Program:

The key features under environment management program are as follows;

- Mines runoff management
 - o Check dams
 - 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 Fixed Water Sprinkling System 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
- Biomedical Waste Management
 - o Collection, segregation, safe disposal
 - o Monitoring and management
- Environmental Mentoring
 - o AAQ
 - o Water (Surface, ground water)
 - o Noise
 - o Soil
 - o Illumination





Sustainable Development Frame Work Report: 2018-19

- Ground vibration
- Plantation

Corporate Social Responsibility:

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

- Drinking water facility
 - Overhead water tank with pipeline distribution facility
 - Safe reach of Drinking water to remote villagers through water tankers
 - Provision of bore wells
- Infrastructure
 - Roads for connecting among villages
 - Bridges between two areas over Nallah or rivers
 - Electrification of the tribal villages with street light & free supply of LED bulbs
 - Supply of transformers and its maintenance
- Health and Hygiene
 - Organization of Health Camp
 - 24 x 7 Medical facility with Doctor & free access of Ambulance
 - Free distribution of medicines to locals
 - Distribution of mosquito nets in Malaria prone areas as identified
- Education
 - Supply of school kits i.e. school bags, books, umbrella etc. for tribal children
 - Support of financial aids like boundary wall construction, room renovation
 - School bus facility
 - Drinking water provision in school campus





Sustainable Development Frame Work Report: 2018-19

Gallery: Photos of Environment



PHOTOS SHOWING THE AVENUE PLANTATION AT KEONJHAR



PHOTO SHOWING THE CHECKDAM CUM SETTLING POND FOR THE SURFACE RUNOFF

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Sustainable Development Frame Work Report: 2018-19



PHOTO SHOWING THE NEW STP INSTALLED AT CAMP FOR THE WATER TREATMENT



PHOTO SHOWING THE DESILTATION WORK FOR NALLAH PROTECTION MEASURES





Sustainable Development Frame Work Report: 2018-19



PHOTO SHOWING THE DRY FOG SYSTEM FOR THE DUST SUPPRESSION



PHOTO SHOWING THE WASTE MANAGEMENT WITH COIR MATING AND RETAINING WALL

Photos of CSR:

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Sustainable Development Frame Work Report: 2018-19



PHOTO SHOWING THE UNCHABALI MEDICAL CENTRE



PHOTO SHOWING THAT AMBULANCE & MEDICINES AVILABILITY IN THE HOSPITAL

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Sustainable Development Frame Work Report: 2018-19



PHOTOS SHOWING THAT THE STREET LIGHT PROVIDED IN THE VILLAGES



PHOTOS SHOWING THAT THE SCHOOL BUS PROVIDED FOR THE NEAR BY VILLAGE
CHILDRENS





Sustainable Development Frame Work Report: 2018-19



PHOTOS SHOWING THE WATER HARVESTIN PONDS CONSTRUCTED IN THE VILLAGES



PHOTOS SHOWING THAT VILLAGE PROVIDED WITH ROAD AND THE BORE WELL FOR THE
WATER





Sustainable Development Frame Work Report: 2018-19



**PHOTO SHOWING THAT OVER HEAD TANKER PROVIDED FOR THE DRINKING WATER SUPPLY
IN THE VILLAGES**



**PHOTO SHOWIN THAT THE PIPE LINE SYSTEM WAS PROVIDED WITH OVER HEAD TANK IN
VILLAGES**

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Sustainable Development Frame Work Report: 2018-19

contact us

Contact info of Key SDF Members

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