

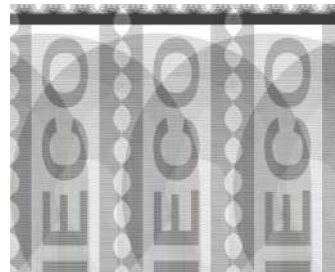
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# **REPORT ON SUSTAINABLE DEVELOPMENT FOR**

## **METABODELI IRON ORE MINE**

**Area- 25 Hac.**

**Vill: Chargaon, Distt: Kanker, Chhattisgarh**



**JAYASWAL NECO INDUSTRIES LIMITED**  
**2022-23**

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# INTRODUCTION

- M/s Jayaswal Neco Industries Ltd.(JNIL) a flagship company of Neco Group is operating its Integrated Steel Plant at Siltara Raipur, Chhattisgarh and is India's one of the largest Special Alloy Steel Manufacturer.
- M/s JNIL has been granted Mining Lease in Metabodali, District Kanker, Chhattisgarh state. The total granted area for mining lease is 25 Ha and type of land is forest land.
- MoEF has granted Forest Clearance for entire 25 Ha.
- The MOEF has accorded approval for Environment clearance for production of 1.0 Million Tons iron ore per annum as per plan approved by Indian Bureau of Mines, Govt of India.
- The entire area is forest land and located in tribal region of Kanker District.



# INTRODUCTION

This mine is maintaining International standard of Management such as ISO-9001, ISO 14001 and ISO 45001 and has received 5 star rating in the year of 2021-22.

Also received a numbers of awards from Mines Environment & Mineral Conservation (MEMC) Week and Metaliferous Mine Safety Week (MMSW).



Bureau Veritas Certification

## JAYASWAL NECO INDUSTRIES LIMITED (METAL MINES DIVISION)



HEAD OFFICE: SILTARA GROWTH CENTRE, BILASPUR ROAD, SILTARA, RAIPUR - 493 111, CHHATTISGARH, INDIA.

This is a multi-site certificate, additional site(s) are listed on the next page(s)

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System Standards detailed below.

Standards

**ISO 9001:2015, ISO 14001:2015 &  
ISO 45001:2018**

Scope of certification

MINING OF IRON ORE AND LIME STONES

Original cycle start date: 08 May 2019  
Expiry date of previous cycle: 07 May 2022  
Recertification Audit date: 09 April 2022  
Recertification cycle start date: 15 July 2022

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **07 May 2025**

Certificate No. **IND.22.9759/IMU** Version: 1 Revision date: **15 July 2022**

*J. Manian*

Signed on behalf of BVCH SAS UK Branch  
Jagdhesh N. MANIAN  
Director - CERTIFICATION, South Asia  
Commodities, Industry & Facilities Division



Certification body address: 5th Floor, 88 Prescot Street, London, E1 8HG, United Kingdom.

Local office: Bureau Veritas (India) Private Limited (Certification Business)  
72 Business Park, Akshay Industrial Area, MIDC Cross Road 'C',  
Andheri (East), Mumbai - 400 093, India.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization. To check this certificate validity please call +91 22 6274 2000.

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Bureau Veritas Certification

## JAYASWAL NECO INDUSTRIES LIMITED (METAL MINES DIVISION)



Standards

**ISO 9001:2015, ISO 14001:2015 &  
ISO 45001:2018**

Scope of certification

MINING OF IRON ORE AND LIME STONES

SITE	ADDRESS	SCOPE
HEAD OFFICE	SILTARA GROWTH CENTRE, BILASPUR ROAD, SILTARA, RAIPUR - 493 111, CHHATTISGARH, INDIA	MANAGEMENT FOR MINING OF IRON ORE & LIME STONE
METAL MINES OFFICE (MMD) SITE 1	MMD, VILLAGE - BHANUPRATAPUR CH BHANUPRATAPUR - 494 999, CHHATTISGARH, INDIA	MANAGEMENT AND ALLIED ACTIVITIES FOR MINING & PROCESSING OF IRON ORE & LIME STONE
METABODELI IRON ORE MINES SITE 2	VILLAGE - METABODELI, TEHSIL - PAKHALIUR, DISTRICT - KANBER - 404 869, CHHATTISGARH, INDIA	MINING & PROCESSING (CRUSHING & SIZING) OF IRON ORE
MANPUR LIME STONE MINE SITE 3	VILLAGE - MANPUR, TEHSIL - SAHASPUR, LOHARA, DISTRICT - KANBER - 481 999, CHHATTISGARH, INDIA	MINING OF LIME STONE
DHOBITOLA TITANFERROUS ORE MINE SITE 4	VILLAGE - DHOBITOLA, TEHSIL - AMAGACH, DISTRICT - GONDIA - 441 902, MAHARASHTRA, INDIA	MANUAL MINING OF TITANFERROUS ORE
CHHOTEDONGAR IRON ORE MINE SITE 5	VILLAGE - CHHOTEDONGAR, TAHSIL & DISTRICT - NARAYANPUR - 494661 CHHATTISGARH, INDIA	MINING OF IRON ORE

Certificate No. **IND.22.9759/IMU** Version: 1 Revision date: **15 July 2022**

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## MANAGING IMPACT AT MINE LEVEL

### **Waste Management :**


The overburden/intercalated waste generated from mine is dumped in waste dump and afterward it is utilised in berm and road side within lease area as per requirement.

Other waste such as jute clothes etc mixed with oil are stored in drums and later on disposed off as per the norms.

The used oil generated from crusher, shovel, dumpers and excavators is stored separately at safe place and disposed off to an authorized recycler.

### **Mineral Conservation :**

Iron ore content above 58% Fe is being used directly to our steel plant and low grade material having Fe content below 58% being sent to beneficiation plant and after beneficiation upgraded ore is dispatched to the company's steel plant. Thus almost all the excavated mineral as Run-off-mine (ROM) is being utilized in the plant.



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## **MANAGING IMPACT AT MINE LEVEL**

### **ENVIRONMENT MANAGEMENT**

To prevent the air pollution, company has engaged truck tankers and tractor tankers for dust suppression within mine and out side the mine upto 25 kms of the village road.

Plantation surrounding safety zone has been completed. However gap plantation is going on. Approximately 1650 sapling have been planted in the year 2022-23.

To prevent water pollution, three settling ponds have been constructed on own private land in which rain water water during monsoon season is collected through garland drain and check dam and later on after proper cleaning by chemical and lime, the collected water is being used for plantation and sprinkling purpose.

Sampling of air, water, drinking water, ground water, noise, soil, DG set is being done on regular interval and analysis of the same is being done by NABL approved lab.

To prevent air pollution, green net has been installed all around the dust prone area.

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# ENVIRONMENT MANAGEMENT



**Construction of check dam**

## Glimpses of Environment Management



**Water Sprinkling at road side**



**Construction of Garland drain**



**Air Monitoring System at Metabodeli Mine**

# ENVIRONMENT MANAGEMENT



**Green net surrounding storage yard**



**Nursery development at Chargaon Village**



**Water mist system at Crusher**

SPRINKLING SYTEM AT CRUSHER POINT



**WATER MIST SYSTEM AT CRUSHER**

# DEVELOPMENT OF PARK AT KANKER





## **GREEN ENERGY INITIATIVES**

To promote green energy and for minimizing the dependency on electricity, company has facilitated the followings :

- LED lights have been installed in the mines.
- BS4 engine with low energy efficiency motors have been set up for Crusher and screen.
- 30 KVA Solar power plant installed in the Mine to fulfill the requirement of electricity for office, illumination etc.
- Installed Solar Pump of 5 HP to draw the water for drinking purpose at mine site.
- Installed Solar Power Plant at Company's Guest house and Bachelor Hostel.
- Installed Solar Power Plant at Office.
- About 111 Solar street lights already installed in Metabodeli & Chargaon Village for lighting purpose.
- Installed 14 nos of Solar Dual pump under CSR Activity in the nearby villages.

# GREEN ENERGY INITIATIVES



## **PROGRESSIVE MINE CLOSURE & LAND SCAP RESTORATION**

- As per mining plan approved by Indian Bureau of Mines, for the year 2022-23, there is no proposal of back filling.
- Rain water harvesting system have been made in several places within mine.
- At present there no area is vacated therefore land scaping has not been done however in dump & safety zone area plantation has been done. About 1650 saplings have been planted in this year.

# PROGRESSIVE MINE CLOSURE & LAND SCAP RESTORATION



**Pond constructed for rain water harvesting**



**Plantation in Dump area**



**Pond constructed for rain water harvesting**



## HEALTH INITIATIVES UNDER CSR ACTIVITY

- Two health care centres, one in Chargaon Village and one in Metabodeli Village, are running since 2016 and Doctors have been appointed at that places. In these centres free treatment is done and Medicine is distributed free of cost to the villagers within 10 kms radius of mine area. Every year about 3000 to 4000 people are benefitted.
- One fully equiped ambulance have also been provided at Chargaon health centre since begining and is availabe 24/7 hours services to take care of the people on emergency. Due to the arrangement of ambulance there has been a very positive effect on the villagers.



Health Care centre at Chargaon village



AMBULANCE SERVICES AT METABODELI



Health Care centre at Metabodeli Village

HEALTH CENTRE AT METABODELI VILLAGE

# HEALTH INITIATIVES UNDER CSR ACTIVITY

## Eye Camp

Company is organising health check up camp time to time in the vicinity of mines area. In this year too Eye check-up camp were organised at Chargaon village in which about 245 people were given eye glasses.



## Blood Donation Camp

Blood donation camp were also organised at Chargaon village in which approx 45 unit blood was collected during camp.



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## **DRINKING WATER FACILITY UNDER CSR ACTIVITY**

In previous year, installation of about 48 bore wells and 14 nos solar dual pump has already been done which are regularly supplying drinking water to the local people. The repair and maintenance of bore well and solar pump is being done by the company. Beside this in the year 2022-23 company has provided drinking water facility under CSR activity as per following :

- Provided Water Purifier for community at district head quarter Kanker
  - Replaced a new water tank with capacity of 5000 Ltr at Metabodeli village against water tank of 2000 Ltr.
  - Drilling of Borewell (8 Nos) in Surewahi, Chargaon, Chhotebodeli & Metabodeli village.
  - Installation of 1 HP Solar Dual Pump (3 Nos ) in Metabodeli Village for Drinking Water to Villagers
  - Installation of Water Tank Capacity 3000 Ltrs (2 Nos) in Metabodeli Village
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# DRINKING WATER FACILITY UNDER CSR ACTIVITY



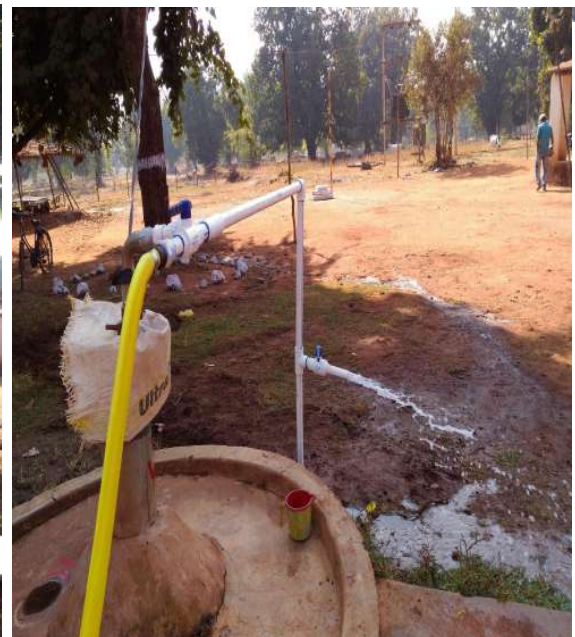
Solar Power Plant at Metabodeli Village



Solar Power Plant at Chargaon Village



Overhead tank at Metabodeli Village



Solar Power Plant at Metabodeli Mine

Kanker, Chhattisgarh, India  
Unnamed Road, Chhattisgarh 494665, India  
Lat 20.050188°  
Long 81.003822°  
02/07/22 04:51 PM

## SKILL DEVELOPMENT UNDER CSR ACTIVITY

In previous years under skill development, company has trained professional in various trades of ITI to boys and ANM training to girls of nearby areas of mines. They all are engaged either in company's mines or other places.

- Beside these in the year 2022-23 about 20 local boys and girls got computer training, JCB and motor cycle repairing training at Antagarh ITI of district Kanker.
- In our annual training program, the Vocational & Refreshment training to 15 workers is given in the year 2022-23 under skill development.
- Like every year, in this year too awareness training program on environment day, earth day and Ozone day has been given.



**Awareness Program on Ozone Day celebration**



**Vocational Training at Bhanupratappur**



## SKILL DEVELOPMENT UNDER CSR ACTIVITY



### Habits of Highly effective manager by Sanjay Kajoori – about 35 staff trained.

The objective of the session is to hone competencies required at Manage Self by :

- Building awareness about the critical competencies, work values and skill required.
- Get participants to reflect on their strengths and areas of improvement
- Understand and apply tools & techniques.



## **LIVILIHOD & SOCIO ECONOMIC STANDARD IMPROVEMENT**

Extended financial support to mines peripheral Gram Panchayat for doing various development work under rural development of CSR.

Running a Free Tailoring Training Center at Chargaon & Metabodeli village for women.

A Samadhan kendra is being operated at Chargaon since 2015 in which provision of Photocopier, Internet, Employment news, Computer work facilities has been made.

Extended financial support for organizing cultural program on Rajyostav at district head quarter Kanker. Extended financial support to villagers of Chargaon and CAF for organizing various program with support of Chargaon villagers on occasion of National Flag Day.

Extended financial support for organizing cultural program on Shahid Samman Diwas at Antagarh

# GLIMPSES FOR LIVELIHOOD & SOCIO ECONOMIC STANDARD IMPROVEMENT



## GLIMPSES FOR LIVELIHOOD & SOCIO ECONOMIC STANDARD IMPROVEMENT



**Financial support given to village panchayat**

## PROMOTION OF LITERACY & EDUCATION

Under promotion of literacy & education the company has appointed two teachers for English coaching at Metabodeli village. Each year about 10 to 15 children are given coaching surrounding in Government school.



## **SUPPORT TO SOCIAL WELFARE & RECREATIONAL ACTIVITY**

- Provided a financial assistance for organizing cultural program on the occasion of Ramnavmi Parv at Bhanupratappur.
- Organized cultural program on the occasion of Independence day at Mines peripheral Villages
- Organized various traditional & cultural programs on the occasion of "World Tribal Day" at areas regional center Bhanupratappur(Vishnuram)
- Organized cultural program at Chargaon & Metabodeli village on the occasion of Company's Foundation Day on 3rd August.
- Provided financial support to organized cultural program on the occasion of Ganesh Utsav at Chargaon village.
- Provided financial support to organized traditional & cultural program on the occasion of Navaratri & Dussera
- Financial Assistance for organizing cultural programme during diwali at Bhaisasur village & cultural program on the occasion of Kali Puja at Dhaudai OF ciom
- Financial Assistance for organising cultural prog during Hostel Day/Hostel Unit Celebration at Bhanupratappur
- Organized cultural program and distributed sweets at Schools ,CAF Camp,Police Station & Mines peripheral Villages on the occasion of Republic Day.
- Financial Assistance to Visit Maharashtra & GOA to study the social, economic & Educational conditions of tribal
- Financial Assistance for organizing cultural programme (Madai).



# SUPPORT TO SOCIAL WEL FARE & RECREATIONAL ACTIVITY



## SUPPORT TO INFRASTRUCTURE DEVELOPMENT

In previous years, major infrastructure development work completed by the company is highlighted as under : :

- WBM Road from Bhiragaon to Dumarkot about 23 kms.
- WBM road and small bridge construction between Pondgaon and Chargaon village about 25 kms.
- Village road Development and widening about 4 kms
- Temrupani to Matiyakhar for widening and strengthen of RCC road.
- Construction of Village road from Chargaon to Metabodeli village about 5 kms.
- Village road development, Street light at Chargaon, Metabodeli village
- Company has constructed two Public Toilet at village Chargaon, Road & Culvert repairing work at main roads of Antagarh, Pondgaon & Erabodi and Chain-Link fencing done at Govt. Middle School, Metabodeli for safety of school buildings.

In this year too, Company has provided financial assistance for several infrastructure development in the vicinity of Metabodeli mine.

- Road & Culvert repairing work at main roads of Antagarh, Chargaon, Temrupani.
- Provided financial assistance to Aadiwasi Samaj for construction of Aadiwasi Bhawan at Antagarh.
- Financial assistance towards seating arrangement for community in Tehsil office, Pakhanjore
- Financial assistance towards village development work at MIOM Mines peripheral Gram panchayat .

## SUPPORT TO INFRASTRUCTURE DEVELOPMENT



**Road widening at Chargaon**



**CC road Construction**

## ADOPTION OF VILLAGE FOR ODF

Chargaon and Metabodeli village has been adopted by the company where facility of fresh drinking water by installation of a large no of solar pump, installation of solar lights, drinking water facility, Repairing of village road renovation of school and Public toilet in both the villages have been provided by the company .



## ADOPTION OF VILLAGE FOR ODF



## SWACHHATA ABHIYAN-2022-23

Like every year this year too the management has organised swachhata abhiyan in mines area and cleaning of office, road and surrounding has been done. Large participation was done by the staff and workers of mines and celebrated with great enthusiasm. All corrective measures have been taken to keep the Mine location clean and free from pollution.



Swachhta message has been given by dissemination through banners, posters etc.

Posters- drawing competition organised at schools.

