

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR inspection REPORT**

**Kolkata regional office**

**Mine file No :** KOL/JHK/SB(W)/FE & MN (P-2)

**Mine code :** 30JHK18021

- (i) Name of the Inspecting : **G004** ) **OM PRAKASH GOPAL**  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Sh. Chitranjan Mahakud, Mines Manager, Ashutosh Mohap  
Official with  
Designation
- (iv) Date of Inspection : 28/07/2021
- (v) Prev.inspection date : 12/03/2021

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PARAMBALJORI**
- (b) **Registration NO.** : **IBM/6087/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **JHARKHAND**
- District : **SINGHBHUM (WEST)**
- Village : **PARAMBALJORI**
- Taluka : **NOAMUNDI**
- Post office : **BARAJAMDA**
- Pin Code : **833221**
- FAX No. : **0651-2547337,2541845**
- E-mail : **atil\_mc@yahoo.co.in**
- Phone : **0651-3295100,3295487**
- (f) **Police Station** : **Barajamda**
- (g) **First opening date** : **01/11/2012**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **vill :- Parambaljori, Post:- Barajamda,**  
**Dist:- Singbhum(west),**  
**Jharkhand**
3. (a) **Lease Number** : **JHK0165**
- (b) **Lease area** : **47.15**
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : **IRON ORE** **Main**

## 5. Name and Address of the

Lessee : M/S ANINDITA STEELS LIMITED  
 VIKAS BHAWAN, BARIATU ROAD,  
 RANCHI. RANCHI JHARKHAND  
 Phone:0651-2541327, 3095100, 3095487  
 FAX :0651-2541845

Owner : FIROZ ABDI  
 M/S ANINDITA STEEL  
 LTD.VIKAS BHAWAN BARIATU  
 ROAD RANCHI- 834008  
 SINGHBHUM (WEST) JHARKHAND  
 Phone: 0651-3295100  
 FAX : 0651- 2547327

Agent : SANJAY KUMAR SINHA  
 M/S ANINDITA STEEL LTD.,  
 VIKAS BHAW BARIATU ROAD,  
 RANCHI - 834008 SINGHBHUM  
 (WEST) JHARKHAND  
 Phone: 0651-23295100  
 FAX : 0651-2547337

## Mining Engineer

Name : Mr. Abhash Kumar Rout, Full Time  
 Qualification : B.Tech. (Mining Engineering)  
 Appointment/ : 02/02/2021  
 Termination date

## Geologist

Name : Ashutosh Mahapatra, Full Time  
 Qualification : m.Sc. Applied Geology  
 Appointment/ : 23/11/2019  
 Termination date

## Manager

Name : Chitranjan Mahakund  
 Qualification : Diploma Mining Engineering  
 Appointment/ : 16/01/2021  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	23/09/2008
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	15/10/2015
	:	Mining Scheme rule 12 MCDR1988	09/06/2016
	:	MP review under 17(1) MCR 2016	12/10/2020

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	-
1b	Exploration over lease area for geological axis 1 or 2	It was proposed to drill 18 boreholes in 2020-21	Drilling not done as per approved proposal.	Deviation from approved proposals were communicated through violation letter.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal	-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	37.150 ha	-	-
1e	Balance reserve as on 01/04/20	Balance reserves as on 1/4/2020: 1.33 million tonnes (111) and 0.239 million tonnes (1222)	-	-
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The lease area forms a part of the eastern limb of famous horse shoe shaped Singhbhum Bonai Keonjhar Iron ore synclinorium. The host rocks belonging to the iron ore formations comprises of schists, tuffs, phyllites, BHJ/BHQ shale etc. Iron ore deposits are confined within BIF.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit 1	Pit 1	-

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	-
2c	Stripping ratio or ore to OB ratio	1:0.46	1:1.38	-
2d	Quantity of topsoil generation in m3	NIL	NIL	-
2e	Quantity of overburden generation in m3	61,299 m3	41,743 m3	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	-

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	-
3b	Quantity of ROM mineral production proposed	133380 tonnes	119995 tonnes	-
3c	Recovery of sailable/usable mineral from ROM production	-	Below 55% Fe: 6508.8 tonnes 55 to Below 58% Fe: 6634.6 tonnes 58 to Below 60% Fe: 5294.7 tonnes	-
3d	Quantity of mineral reject generation	13311 tonnes	6508 tonnes	-
3f	Quantity of sub grade mineral generation.	13311 tonnes	6508 tonnes	-
3g	Grade of sub grade mineral generation	Below 55% Fe	Below 55% Fe	-
3h	Manual / Mechanised method adopted for segregating from ROM	Crushing and screening by mobile crushing and screening plant	Crushing and screening by mobile crushing and screening plant	-

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	-
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	-
3k	Provision of mining machineries in mineral benches	Yes	Yes	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	-
3m	Total area covered under excavation/pits	3.94 ha	3.94 ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:1.38	1:1.38	-
3o	Total area put in use under different heads at the end of year	-	Pit: 3.94 ha, Dump:0.54 ha, Road and infrastructure: 1.62 ha, Mineral Stack:0.43 ha, Mineral screening and beneficiation: 1.02 ha, other: 0.96 ha	-
3p	Production of ROM mineral during the last five year period as applicable	Proposal for cleaned ore production 2015-16- 60118 tonnes 2016-17- 60052 tonnes 2017-18- 60548 tonnes 2018-19- 60200 tonnes 2019-20- 60333 tonnes	2015-16- NIL 2016-17- 414 tonnes 2017-18- 40015 tonnes 2018-19- NIL 2019-20- 126934 tonnes (Total ROM)	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	-

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	-
4b	Location of topsoil, OB and mineral reject dumps	No soil will be generated during reporting period and generated OB will be dumped over existing dump site.	As per proposal	-
4c	Number of dumps within lease area and outside of lease area	One dump whhich is inside the lease area	One dump whhich is inside the lease area	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	-
4e	Number of active and alive dumps.	01	01	-
4f	Number of dead dumps.	NIL	NIL	-
4g	Number of dumps established.	NIL	NIL	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	-
4i	Length of Retaining wall or garland drain all along dumps	679 m	679 m	-
4j	Number of settling ponds	01	01	-
4k	Specific comments of inspecting officer on waste dump management	-	-	-

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No such proposal	-	-
5b	Area under backfilling of mined out area	No such proposal	-	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposal	-	-
5d	Total area fully reclaimed and rehabilitated	No such proposal	-	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	-

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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	-	Annual Report on PMCP submitted.	-
6b	Area available for rehabilitation (ha) .	NIL	NIL	-
6c	afforestation done (ha).	0.11 ha	0.11 ha	-
6d	No. of saplings planted during the year	250	500	-
6e	Cumulative no .of plants	5000	-	-
6f	Any other method of rehabilitation	No such proposal	-	-
6g	Cost incurred on watch and care during the year	3,67,500/-	-	-

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No such proposal	-	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal	-	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No such proposal	-	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal	-	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal	-	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Plantation of 250 saplings	As per proposal	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal	-	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal	-	-



6p	Compliance of environmental monitoring (core zone and buffer zone)	No such proposal	-	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	-

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting	Grade wise sorting	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	-
7c	Different grade of mineral sorted out at mines.	No such proposal	-	-
7d	Any beneficiation process at mines .	Crushing Screening and sizing by deploying mobile crusher	Crushing Screening and sizing by deploying mobile crusher	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	-

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal	-	-

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8b	Concurrent use or storage of topsoil	No such proposal	-	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	-	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	plantation of 250 saplings	500 saplings	-
8g	Survival rate	-	85%	-
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	-

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Returns should be submitted.	Monthly and Annual Returns are being submitted in time.	-

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	-	Mining Engineer and Geologist are in place	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under open cast working : 3.94 ha Area exploited and abandoned: 8.51 ha Area under OB dumps: 0.52 ha Infrastructure : 2.64 ha Other : 0.43 ha	Area exploited and abandoned as reported in Annual Return was incorrect. Discrepancies communicated to lessee through V/L. The lessee submitted revised return after rectifying shortcomings. Revised Return is more or less in order.	-
9d	Scrutiny of Annual return on afforestation	500 saplings were planted	Afforestation details are more or less in order.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Total generation- 6508 tonnes having grade less than 55% Fe	Mineral reject generation details are more or less in order.	-

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM opening Stocks: 126934.561 tonnes and closing stocks: 225734.431 tonnes Graded Ore: below 55% Fe : Lumps opening Stocks: 1225.89 tonnes and closing stocks: 1285.89 tonnes and fines opening Stocks: 68358.550 tonnes and closing stocks: 74867.389 tonnes 55 to below 58% fe: Lumps opening Stocks: 23541.215 tonnes and closing stocks: 28965.247 tonnes and fines opening Stocks: 0 tonnes and closing stocks: 6634.554 tonnes 58 below 60 % Fe: Lumps: opening stocks NIL, Closing stocks: 8639.192 tonnes	Stock details are more or less in order.	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production : 2232 Rs per tonnes	DEtails are not in order and was communicated to lessee by V/L. In revised returns cost of production was corrected as Rs 1253 per tonnes.	-
9h	Scrutiny of Annual return on fixed assets	Fixed assets : - Rs. 2724389/-		-

9k	Scrutiny of Annual return on mining machineries	Hydraulic Shovel-2, Dumper :4 Loader-2, Generator 1 and Crusher 2	Mining machenaries details are more or less in order.	-
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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed				Show cause position			
Rule NO.		Issued on	Compliance on	Rule NO.		Issued on	Compliance on
MCDR17	Rule 11(1)	17/08/2021	12/11/2021				
	Rule 45(5)	17/08/2021	12/11/2021				

**Date :**

**(OM PRAKASH GOPAL)**

Indian Bureau of Mines