

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

MCDR inspection REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-91/BBS

Mine code : 30ORI08122

- (i) Name of the Inspecting : **RKR5**) **RAJANI KANTA RAUTARAY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sh. G C BHOI, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 07-JUN-22
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JURURI**
- (b) **Registration NO.** : **IBM/23090/2020**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **ORISSA**
- District : **KEONJHAR**
- Village : **Jururi**
- Taluka : **Joda**
- Post office : **Bamebari**
- Pin Code : **758034**
- FAX No. :
- E-mail : **sanatanmahakud485@gmail.com**
- Phone : **8599057844**
- (f) **Police Station** :
- (g) **First opening date** : **16-AUG-20**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **AT-Nambira**
correspondance : **P.O-Bamebari**
: **Dist-Keonjhar-758034**
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : **IRON ORE** **Main**

5. Name and Address of the

Lessee : Jagat Janani Services Private Limited
 KEONJHAR ORISSA
 Phone:
 FAX :

Owner : SANATAN MAHAKUD
 AT-NAMBIRA P.O-BAMEBARI
 KEONJHAR ORISSA
 Phone:
 FAX :

Agent : BISWAMITRA MAHAKUD
 AT-NAMBIRA P.O-BAMEBARI
 KEONJHAR ORISSA
 Phone: 8599057844
 FAX :

Mining Engineer

Name : GOVINDA CHANDRA BHOI, Full Time
 Qualification : AMIE (Mining)
 Appointment/ : 20-JAN-21
 Termination date

Geologist

Name : B.N. MOHANTY, Full Time
 Qualification : M. Sc. (Geology)
 Appointment/ : 07-SEP-20
 Termination date

Manager

Name : GOVINDA CHANDRA BHOI
 Qualification : AMIE (MINING)
 Appointment/ : 20-JAN-21
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP under 16(1) of MCR 2016 03-DEC-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	40 Nos. of core boreholes	15 Nos. holes have been drilled under G1 category	The mining lease is a auctioned block and executed on 07.08.2020
1b	Exploration over lease area for geological axis 1 or 2	47 Nos holes were proposed in the year 2021-22	22 nos. of holes have been drilled	In addition to the already drilled BHs of the ex-lessee, the total area got explored under G1 category
1c	Exploration Agencies and Expenditure in lakh rupees during the year	proposed	SPS GEO MINING , AMBIKA BORE HOLE , P.S BROTHER (Rs.6863447/-)	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	The total area has been explored under G1 category.
1e	Balance reserve as on 01/04/20		As per approved mining plan dated 03-12-2020, the total reserve & resource of the mine are 2.97 MT & 0.62 MT accordingly.	
1f	General remarks of inspecting officers on geology, exploration etc			Violation letter has been issued under MCDR, 2017 for non-compliance of the exploration proposal.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Top Pit and Tata Pit 2828582N to 2428879N 335663E to 366196E	Top Pit and Tata Pit 2828582N to 2428879N 335663E to 366196E	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been proposed for overburden and mineral	Separate benches have been made as per proposal	

2c	Stripping ratio or ore to OB ratio	1:0.22 T/cum	1:0.308 T/cum	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	213450m3	66101.33 m3	The mining lease under reference was executed on 04.07.2020 and caused less generation of OB
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Since it is a brown field auction mine, it was executed on 04.07.2020 and hence delay for mining operation caused less OB generation.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 Nos. (Tata Pit & Top Pit)	02 Nos. (Tata Pit & Top Pit)	
3b	Quantity of ROM mineral production proposed	10,00,200 t	2,14,683.920 t	
3c	Recovery of sailable/usable mineral from ROM production	45%	25%	Proposed Top pit area is purely BHQ & BHJ which Grade is Max -45% of Fe
3d	Quantity of mineral reject generation	235649 (MT)	122596.36 (MT)	Proposed Top pit area is purely BHQ & BHJ which Grade is Max -45% of Fe
3e	Grade of mineral rejects generation and threshold value declared.	+45 TO -55 Fe	+45 TO -55 Fe	
3f	Quantity of sub grade mineral generation.	235649 (MT)	235649 (MT)	Proposed Top pit area is purely BHQ & BHJ which Grade is Max -45% of Fe
3g	Grade of sub grade mineral generation	45% FE TO -55% FE	45% FE TO -55% FE	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical	Mechanical	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable	
3j	Provision of drilling and blasting in mineral benches	Provision of drilling & blasting in mineral benches have been proposed	Controlled Blasting (Deep Hole Blasting) are being carried out	
3k	Provision of mining machineries in mineral benches	proposed	mining machineries are deployed as per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10m height of the bench has been proposed	10m bench height is maintained	
3m	Total area covered under excavation/pits	2.88 Ha	1 Ha.	No work in Proposed Tata pit due litigation dispute with the ex-lessee
3n	Ore to OB ratio for the pit/mine during the year.	1:0.22	1:0.308	
3o	Total area put in use under different heads at the end of year	40.8 Ha	39.112 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2020-21 : 700263t 2021-22 : 1000200t	2020-21 : 71690.00 2021-22 : 214683.920	The lease was executed on 07.08.2020 granted through e-auction.
3q	General remarks of inspecting officers on method of mining etc.			Less work carried out due the lease was executed on 07.08.2020 granted through e-auction.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of & mineral reject are proposed	Separate dumping for OB & mineral reject are made.	OB
4b	Location of topsoil, OB and mineral reject dumps	Mineral Reject 2429197Nto2429267 2429197Nto2429267 336508E336562E OB- 2429158N to 2429266N & OB- 2429158N to 2429266N & 335955E to 336081E	Mineral Reject 2429197Nto2429267 336508E336562E OB- 2429158N to 2429266N & 335955E to 336081E	
4c	Number of dumps within lease area and outside of lease area	Number of dumps within lease area : 02 Number of dumps outside lease area : Nil	Number of dumps within lease area : 01 Number of dumps outside lease area : Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	2429158N to 2429266N & 335955E to 336081E	2429158N to 2429266N & 335955E to 336081E	
4e	Number of active and alive dumps.	02	01	
4f	Number of dead dumps.	02	02	
4g	Number of dumps established.	02	02	These dumps have been stabilized by the Ex-lessee
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Maintained	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Maintainance	
4j	Number of settling ponds	01 Nos.	01 Nos.	
4k	Specific comments of inspecting officer on waste dump management			Less production due to delay in execution of mining lease after auction and caused less overburden generation

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	Nil	Pits are not matured for backfilling
5b	Area under backfilling of mined out area	0.5 Ha.	Nil	Violation letter has been issued for not achieving/commencing the backfilling operation as per proposal.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Pits are not matured for backfilling.

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).	Proposed	Annual report on PMCP has been submitted on time	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	3730 Sq. Metre	4000 Sq. Metre	
6d	No. of saplings planted during the year	597 Nos sapplings are proposed	600 nos. of sapplings have been planted	
6e	Cumulative no .of plants	-	1100 Nos sapplings have been planted till the date of inspection	

6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	-	Rs. 35000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Proposed in Tata pit	Nil	violation letter was issued under MCDR, 2017
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	0.5 Ha.	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	597 Nos.	600 Nos.	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.37 Ha	0.6 Ha.	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By plantation	By means of plantation
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring (core zone & buffer zone) have been proposed	Report on Environmental monitoring (core zone & buffer zone) has been submitted quarterly.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed for Grade wise Lumps & Fines	Grade wise Lumps & Fines are sorted within lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	45-55 % Fe 55-62 % Fe	45-55 % Fe 55-62 % Fe	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Grade wise lumps & fines are being sorted within lease area.

Environment :

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

8b	Concurrent use or storage of topsoil	No such proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	separate proposal for overburden and mineral reject was there	carried out as per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	waste has been Proposed for back filling	Nil	Volation letter was issued under MCDR, 2017
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	597 nos. of sappling have been proposed for plantation	600 nos. sapplings have been planted	
8g	Survival rate	85%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling is being used on roads to control airborne dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			There is no proposal for generation of topsoil in the mine.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly return found in order has been submitted up to May, 2022 Annual return is not due for submission for the year 2021-22	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Govinda Chandra Bhoi Geologist- BichitraNanda Mohanty Mines Manager- Govinda Chandra Bhoi	Found in order
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	mining area-23.348 Ha cover under current working- 1Ha Reclaimed area-0.45Ha Waste Disposal-6.606 Ha Other Purpose (Mineral Storage, Garland Drain, Retaining Wall)- 6.228 Ha	found in order
9d	Scrutiny of Annual return on afforestation	600 nos of plantation have been done during the year	found in order
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	45% Fe to 55%Fe 122596.36 (MT)	found in order
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM PRODUCTION : 2,146,83.920 t	Found in order

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production Cost-1192.05	Found in order
9h	Scrutiny of Annual return on fixed assets	Details provided	Found in order
9k	Scrutiny of Annual return on mining machineries	Drilling 69 HP 110 mm Diametre : 01 No Loading 4.5 cum : 01 No Transporting CAT 950H : 01 No	found in order

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	04-JUL-22			
Rule 54		04-JUL-22			

Date :

(RAJANI KANTA RAUTARAY)

Indian Bureau of Mines