

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

Inspection under SDF for star rating of mines REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE-498/BNG

Mine code : 30KAR03190

- (i) Name of the Inspecting : **S011**) **K.SRINIVAS**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sandeep R Mines Manager and others
Official with
Designation
- (iv) Date of Inspection : 07-MAR-23
- (v) Prev.inspection date : 14-JUN-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAISINGPUR IRON ORE MINE**
- (b) **Registration NO.** : **IBM/199/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : Jaisinghpura
Taluka : Sandur
Post office : Jaisinhpur
Pin Code : 583119
FAX No. : 08394232444
E-mail : mspl.mum@mspllimited.com,er
Phone : 08394232002
- (f) Police Station : Sandur is about 14 km
- (g) First opening date : 15-OCT-20
- (h) Weekly day of rest : SUN
2. Address for : M/s. MSPL LIMITED, BALDOTA
correspondance ENCLAVEABHERAJ BALDOTA ROAD, HOSPET,
BALLARI KARNATAKA.
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 : MSPL LTD
 CO-OPERATIVE COLONY,
 HOSPET, BELLARY, BELLARY
 KARNATAKA
 Phone:28402,28502
 FAX :08394-24537,25052

Owner : Dr. Meda Venkataiah..Nominated Owner
 M/s MSPL Limited
 BaldotaEnclave,Abheraj
 Baldota Road Hosapete
 BELLARY KARNATAKA
 Phone: 08394232002
 FAX : 08394232444

Agent : K. MADHUSUDHANA
 MSPL Limited, Baldota
 Enclave Abheraj Baldota
 Road, Hosapete BELLARY
 KARNATAKA
 Phone: 08394-232002
 FAX : 08394-232444

Mining Engineer
 Name : Prashant Gali,Full Time
 Qualification : BE IN MINING
 Appointment/ : 15-OCT-20
 Termination date

Geologist
 Name : Dhruva Kumara B.Y.,Full Time
 Qualification : M.Sc GEOLOGY
 Appointment/ : 15-OCT-20
 Termination date

Manager
 Name : Sandeep R Manekeshwar
 Qualification : FCC
 Appointment/ : 26-AUG-20
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 28-JUL-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals	nil	-
1b	Exploration over lease area for geological axis 1 or 2	No proposals	15 boreholes carried out with 496m meterage.	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals	By the lessee	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	G-1- 34.48 Ha Non-mineralised area - 21.52ha m,	-
1e	Balance reserve as on 01/04/20	-	-	Reserves as on 1.4.2022: 1850932t
1f	General remarks of inspecting officers on geology, exploration etc	-	-	There are no proposals for exploration for the year 2021-22.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Section AA' ' to EE' 'RL-900m to 870m.	The proposed development carried out in between the sections AA' to EE', but developed beyond 870mRL.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in overburden and ore.	Separate benches maintained in overburden and ore.	-
2c	Stripping ratio or ore to OB ratio	1: 0.61(in tonne)	1: 8.50 (in tonne)	Ore:50720t Waste: 431140t
2d	Quantity of topsoil generation in m3	No proposal	nil	-

2e	Quantity of overburden generation in m3	29224m3	172456 m3	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The violation was issued during the last inspection on 14.6.2022 for the year 2021-22.FMCP has been submitted by the lessee due to lack of adequate reserves.This is an auctioned lease. The matter has been referred to DMG,Karnataka. As per office records,all violations during the last inspection have been dropped.The matter is pending with DMG. Hence, no violation has been issued during SDF inspection for the year 2021-22.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1Pit	One pit	-
3b	Quantity of ROM mineral production proposed	1,20,000t	50720t	-
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No proposal	nil	-
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	nil	-

3f	Quantity of sub grade mineral generation.	No proposal	nil	-
3g	Grade of sub grade mineral generation	No proposal	nil	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method for segregation.	Mechanised method for segregation	Dry Crushing and Screening 100 TPH
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No such beneficiation study carried out	-
3j	Provision of drilling and blasting in mineral benches	Provision of Drilling and Blasting is proposed.	Drilling and blasting has been carried out.	-
3k	Provision of mining machineries in mineral benches	Mining Machineries proposed- Excavators- 5 Tippers- 10 Drill-1 Wheel Loaders -1 Water tanker-2 Mobile C&S-1	Mining Machineries - Excavators- 3 Tippers- 10 Wheel Loaders -2 Drill -1 Water tanker-2(8000KL) Mobile C&S-1	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height- 10m Bench Width- 10m	Bench Height- 10m Bench Width- 10m	-
3m	Total area covered under excavation/pits	15.43 Ha (At the end of the plan period)	14.88 Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1: 8.50 (in tonne)	1: 0.61(in tonne)	Ore:50720t Waste: 431140t

3o	Total area put in use under different heads at the end of year	Mine Working- 15.43 Ha Dumping - 5.38ha Infra &Roads -0.55ha (At the end of the plan period)	Mine Working- 14.88 Ha Dumping - 2.90 Ha Infra &Roads-0.99ha	-
3p	Production of ROM mineral during the last five year period as applicable	2020- 21:120000t 2021-22 :120000t	2020-21:70348t 2021-22 :50720t	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	There is no change in method of mining.

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 Overburden is proposed.	Separate Dumping of Overburden is carried out.	-
4b	Location of topsoil, OB and mineral reject dumps	E657900 to E658020. N1679220 to N1679330	Overburden Dumping carried out beyond the proposed.	-
4c	Number of dumps within lease area and outside of lease area	8 inactive dumps lactive dump.	8 inactive dumps lactive dump.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Active dump Outside the Ultimate Pit Limit	Active dump Outside the Ultimate Pit Limit	-
4e	Number of active and alive dumps.	1	1	-
4f	Number of dead dumps.	8	8	-
4g	Number of dumps established.	No proposal	nil	-

4h	Whether Retaining wall or garland drain all along dumps are there.	80m Retaining wall & 80m Garland drain proposed.	Constructed.	-
4i	Length of Retaining wall or garland drain all along dumps	80m Retaining wall & 80m Garland drain proposed.	Constructed.	-
4j	Number of settling ponds	No proposal	nil	-
4k	Specific comments of inspecting officer on waste dump management	-	-	The violation was issued during the last inspection on 14.6.2022 for dumping beyond the proposed for the year 2021-22. FMCP has been submitted by the lessee due to lack of adequate reserves available in the mining lease. This is an auctioned lease. The matter has been referred to DMG, Karnataka. As per office records, all violations during the last inspection have been dropped. The matter is pending with DMG. Hence, no violation has been issued during SDF inspection for the year 2021-22.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	nil	-
5b	Area under backfilling of mined out area	No proposal	nil	-

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	1.0ha of afforestation on the mined out area of float ore proposed	1.0ha of afforestation on the mined out area of float ore carried out as proposed.	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	No specific comments on backfilling proposals for the year 2021-22.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted under rule 26(2) of MCDR, 2017 before 1st July of every year.	Submitted.	-
6b	Area available for rehabilitation (ha) .	1.0 ha backfilled area .	1.0 ha backfilled area .	The mined out area of float ore.
6c	afforestation done (ha).	1.0 ha backfilled area	1.0 ha backfilled area	The mined out area of float ore
6d	No. of saplings planted during the year	2000 saplings proposed.	5000 saplings .	Planted in float ore worked out area, safety zone and gap plantation.
6e	Cumulative no .of plants	15,700plants	5200 plants	-
6f	Any other method of rehabilitation	No proposal	nil	-
6g	Cost incurred on watch and care during the year	Rs.40000 including watch and care	As proposed.	-

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	No proposal	nil	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	1.0 ha backfilled area	1.0 ha backfilled area .	The mined out area of float ore.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No 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	No proposal	nil	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	nil	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	nil	-

6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring is proposed for Core and Buffer Zone.	Environment monitoring is being carried out monthly in Core and Buffer Zone.	All the environmental parameters observed to be within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	There are no specific comments on the proposals for the year 2021-22 in PMCP.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting is proposed within lease area.	Grade wise sorting is done within lease area.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Sorting.	Mechanical Sorting.	Dry Crushing & Screening.
7c	Different grade of mineral sorted out at mines.	No Grade wise sorting is proposed	nil	-
7d	Any beneficiation process at mines	No proposal	nil	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	There are no specific comments on Mineral Conservation and beneficiation issues.

Environment:

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

8b	Concurrent use or storage of topsoil	No proposal	nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal for Separate dumping of Overburden	Separate dumping of Overburden carried out.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	nil	-
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)	15,700plants	5200 plants	-
8g	Survival rate	80%	80%	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to control airborne dust.	Water tankers are deployed to control the airborne dust on haul roads and screening plant.	2 nos. of water tanker each of 8000 liters capacity.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	There is no change in aesthetic beauty in and around mines.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to January, 2023.	A.R for the year 2021-22 submitted on 29.6.2022.	-

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sandeep R. M Manager, Prashant Gali Mining Engineer Dhruvakumar B.Y, Geologist	Appears to be correct.	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mine Working- 14.88 Ha Dumping - 2.90 Ha Infra &Roads- 0.99ha	Appears to be correct	-
9d	Scrutiny of Annual return on afforestation	5000saplings within the ML with 80% survival rate.	Appears to be correct.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Appears to be correct	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/S -Nil Production of Iron ore - 874778t C/S -265522.9 t	Appears to be correct	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production-Rs 3738.45/tonne. Av.Ex- pricemine- Rs 3841.2/tonne	Appears to be correct	-
9h	Scrutiny of Annual return on fixed assets	Fixed Assets- Rs76604854/-	Appears to be correct.	-
9k	Scrutiny of Annual return on mining machineries	Mining Machineries - Excavators- 3 Tippers- 10 Wheel Loaders -2 Drill -1 Water tanker- 2(8000KL) Mobile C&S-1	Appears to be correct	-

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

Date :

(K.SRINIVAS)

Indian Bureau of Mines