

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/JBP/IRON-10

Mine code : 30MPR18008

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mines
- (iii) Accompanying mine : Sourab Nayak Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 19-FEB-24
- (v) Prev.inspection date : 27-JAN-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SINDURSI (9.00 HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : JABALPUR
Village : SINDURSI
Taluka : SIHORA
Post office : TIKARIYA
Pin Code : 483334
FAX No. : NA
E-mail : NA
Phone : NA
- (f) Police Station : SIHORA
- (g) First opening date : 01-SEP-05
- (h) Weekly day of rest : SUN
2. Address for : Shri Nitin Sharma , Shop No. 3,
correspondance Bengali Club Market,
Karamchand Chowk, Jabalpur -
482002 (M.P.)
3. (a) Lease Number : MPR2132
- (b) Lease area : 9
- (c) Period of lease : 50
- (d) Date of Expiry : 08-SEP-54
4. Mineral worked : IRON ORE Main
LATERITE Associated

5. Name and Address of the

Lessee : M/s Sharma Ores and Mines Private Limited
 PROP. Nitin Sharma Shop No.
 3, Bengali Club Market
 Karamchand Chowk, Jabalpur
 - 482002,
 MADHYA PRADESH
 Phone: 9425150894

Owner : M/s Sharma Ores and Mines Private Limited
 PROP. Nitin Sharma Shop No. 3, Bengali Club Market
 Karamchand Chowk, Jabalpur 482002
 Phone: 9425150894

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	03-APR-06
		Modif.of approved Mining Plan	04-SEP-08
		Mining Scheme rule 12 MCDR1988	02-MAR-11
		Modif.approved Mining Scheme	17-AUG-12
		Mining Scheme rule 12 MCDR1988	06-MAY-15
		MP/JBP/Iron/RMR-44/2020- 21/4142	09-MAR-21

PART - II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

EXPLORATION :

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	NA	
1c	Exploration Agency	Not proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not specified	9.00hect in G2	
1e	Balance reserves	Not specified	121- 69854 t	
1f	General remarks of Inspecting officer on geology, exploration etc.			

Development :

Sl.No.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Chapter No.2, during the year 2022-23 development & production was proposed towards southeast of the quarry between the coordinates N2585880 - N2586000 & E412190-E412340 from 409 mRL to 385 mRL.	But during the year, development was not carried out as per the approved proposals resulting in lateral deviations towards the south eastern direction of the pit-2.	Violation pointed out under Rule 11(1) of MCDR 2017.

2b	Separate benches in topsoil overburden and mineral (Rule 15)	Proposed	Maintained
2c	Stripping ratio or ore to OB ratio	1:0.14	1:0.23
2d	Quantity of topsoil generation in m3		
2e	Quantity of overburden generation in m3	33673	40000
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Refer Page 43-44 of Chapter No.2, during the year 2022-23 development & production was proposed towards southeast of the quarry between the coordinates N2585880 - N2586000 & E412190- E412340 from 409 mRL to 385 mRL. But during the year, development was not carried out as per the approved proposals resulting in lateral deviations towards the south eastern direction of the pit-2.Hence Violation pointed out under Rule 11(1) of MCDR 2017.	

Exploitation :

Sl.No.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	1 pit	1 pit	
3b	Quantity of ROM production proposed (2022-23)	231374	167095	Violation pointed out under Rule 11(1) of MCDR 2017.
3c	Recovery of Salable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	Nil	Nil	No mineral reject generation
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	No mineral reject generation
3f	Quantity of sub-grade mineral generation	Nil	Nil	No sub-grade mineral generation

3g	Grade of sub-grade mineral generation	Nil	Nil	No sub-grade mineral generation
3h	Manual/Mechanized method adopted for segregation from ROM	Manual & Mechanised	Manual & Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub- grade mineral and reject	Nil	Nil	No sub-grade mineral generation
3j	Provision of drilling & blasting in mineral benches	Nil	Nil	
3k	Provision of mining machineries in mineral benches	Proposed	BACK HOE 1.100 CUM 2 Non Electrical Opencast DUMPER 24.000 TONNE 6 Non Electrical Opencast JEEP/TRACTOR 46.000 HP 1 Non Electrical Opencast	
3l	Whether height of benches in OB and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation /pits	5.50 ha	Incorrectly reported in AR	Violation pointed out under Rule 45(7) of MCDR 2017.
3n	Ore to OB ratio for the pit/mine during the year	1:0.14	1:0.23	
3o	Total area put in use under different heads at the end of year	7.32 ha	Incorrectly reported in AR	Violation pointed out under Rule 45(7) of MCDR 2017.
3p	Production of ROM mineral during last five-year period, as applicable	2018-19 2019-20 2020-21 2021-22 2022-23	0 0 0 257283 231374	0 0 0 42030 167095

3q General remarks For the year 2022-23 development & production was proposed of inspecting towards southeast of the quarry between the coordinates officer on method N2585880 - N2586000 & E412190- E412340 from 409 mRL to 385 of mining etc mRL. But during the year, development was not carried out as per the approved proposals resulting in lateral deviations towards the south eastern direction of the pit-2. Hence Violation pointed out.

Solid waste management-dumping :

Sl.No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of OB proposed	Separate dumping of OB done	
4b	Location of topsoil, OB & mineral reject dumps	It was proposed to maintain dump between the coordinates N2586165 - N2586235 & E412100- E412360.	But during the year, the dumping was not carried out as per approved proposals.	Violation pointed out under Rule 11(1) of MCDR 2017.
4c	Number of Dumps within lease area and outside lease area	1	1	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	
4e	Number of Active & Alive dumps	1	1	
4f	Number of dead dumps	0	0	
4g	Number of dumps established	0	0	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along	Not proposed	Nil	

dump

4j Number of settling ponds Not proposed Nil

4k Specific commends officer on waste dump management It was proposed to maintain dump between the coordinates N2586165 - N2586235 & E412100- E412360. But during the year, the dumping was not carried out as per approved proposals. Further, dumping of overburden material found beyond mining lease near BP-03 B to BP-03 & BP-03 to BP-02 E & BP-01 to BP-04 E. Hence Violation pointed out.

Solid waste management-backfilling :

Sl.No.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	Nil	
5b	Area under backfilling of mined out area	Not proposed	Nil	
5c	Concurrent use of Topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Nil	
5d	Total area fully rehabilitated	Not proposed	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposals for backfilling & reclamation etc		

Progressive mine closer plan

Sl.No.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26(2). Details should be given in the format as given in Annexure-20	Yes	Annual report on PMCP has been Submitted.	
6b	Management of worked/mined out benches	Nil	NA	
	i)Area available for rehabilitation (Ha)	Nil	NA	
	ii)Afforestation done (ha)	Nil	NA	
	iii)No. of saplings planted during the year	Not specified for the year	20 approx.	
	iv)Cumulative no. of plants	Not specified	300 (approx.)	
	v) Any other specific method of rehabilitation	Nil		Nil
	vi)Cost incurred on watch & care during the year	Not specified	NA	
6c	Compliance on reclamation and rehabilitation by backfilling	NA	NA	
	i) Voids available for backfilling (L X B X D)			
	ii) Void filled by waste/tailings			
	iii) Afforestation on the backfilled area			
	iv) Rehabilitation by making water reservoir			
	v) Any other specific means			

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environment monitoring proposed	Carried out
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Afforestation being done on green belt.	

Mineral conservation :

Sl.No.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch proposed	ROM mineral dispatch done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Along with Manual sorting mechanized screening	As per approved proposal.	
7c	Different grade of mineral sort out at mine	Not specified	Fe content 51 to 58%)	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks on Mineral conservation & beneficiation issues	ROM mineral dispatch after manual sorting being done in inspecting officer the lease.		

ENVIRONMENT

Sl.No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not Proposed	NA	
8b	Concurrent use or storage of topsoil	Not Proposed	NA	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Proposed	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed.	NA	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Green belt was proposed to be developed	Around 20 plants has been planted in lease area and surroundings
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed	Around 20 plants has been planted.
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	yes	Regular Water sprinkling on roads to control airborne dust is in practice by lessee's water tanker.
8i	General remarks of Aesthetic beauty in and around mine area needs inspecting officer improvement. on aesthetic beauty in and around mine area		

Compliance of rule 45 :

Sl.No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and Annual returns	Returns are submitted online.	Returns are submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager : Srikant Patel Mining Engineer in charge: Mr.Sourav Nayak Geologist in charge : Mrs.Ranjeeta Markam	Geologist - Ranjeeta Markam, MSc (Geo) DOA: 20/09/21 Sourav Nayak, (BE Mining), DOA 30/04/22	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<p>(i) Already exploited and abandoned by opencast (O-C) mining 0.000 5.080 5.080</p> <p>(ii) Covered under current (O-C) Workings 0.000 0.280 0.280</p> <p>(iii) Reclaimed-rehabilitated 0.000 0.000 0.000</p> <p>(iv) Used for waste disposal 0.000 0.300 0.300</p> <p>(v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.100 0.100</p> <p>(vi) Used for any other purpose (specify) 0.000 0.000 0.000</p> <p>(vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.000</p>	The details wrt to Lease area (surface area) utilisation as at the end of year is incorrectly furnished	Violation pointed out under Rule 45(7) of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	Given	<p>Trees planted- survival rate</p> <p>Description Within lease area Outside lease area</p> <p>i) Number of trees planted during the year 20 50</p> <p>ii) Survival rate in percentage 80 60</p> <p>iii) Total no. of trees at the end of the year 380 800</p>	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	

9f	Scrutiny of Annual return on ROM stock and/or grade ore	Given	Opening stock : 124532 T Production : 167095 T Closing stock : 124532 T	
9g	Scrutiny of Annual return on sale value, Ex Mine price & production costs	Not given	Ex-mine price for 51% to below 55% Fe is Rs.400. Ex-mine price for 55% to below 58% Fe is Rs.800. Production cost is Rs.256.03	
9i	Scrutiny of Annual return on Fixed assets	Nil	The Value of Fixed Asset is mentioned as "Nil".	Violation pointed out under Rule 45(7) of MCDR 2017.
9k	Scrutiny of Annual return on mining Machineries	Given	Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in opencast underground (specify) BACK HOE 1.100 CUM 2 Non Electrical Opencast DUMPER 24.000 TONNE 6 Non Electrical Opencast JEEP/TRACTOR 46.000 HP 1 Non Electrical Opencast	

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
Rule 11(1)	14-MAY-24		Rule 11(1)	07-JUL-24	14-AUG-24
Rule 31(4)	14-MAY-24		Rule 31(4)	07-JUL-24	14-AUG-24
Rule 33	14-MAY-24	06-JUL-24			
Rule 45(7)	14-MAY-24		Rule 45(7)	07-JUL-24	14-AUG-24

Date :

(ROBERT SIMON C)

Indian Bureau of Mines