

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

MCDR inspection REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-59/NGP

Mine code : 40MPR01054

- (i) Name of the Inspecting : **G007**) **PRASHAY GAJBHIYE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 18-OCT-21
- (v) Prev.inspection date : 14-MAY-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JARAH-MOHAGAON**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : BALAGHAT
Village : JARAH-MOHAGAON
Taluka :
Post office :
Pin Code :
FAX No. : 07104235656
E-mail : jaipurialeo@yahoo.co.in
Phone : 07104234844
- (f) Police Station :
- (g) First opening date : 01-JAN-09
- (h) Weekly day of rest :
2. Address for :
correspondance :
3. (a) Lease Number : MPR2552
(b) Lease area : 6.16
(c) Period of lease : 20
(d) Date of Expiry : 12-OCT-28
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : JAIPURIA LEO SOFTWARE & SYSTEMS PVT. LTD
PLOT NO. F-4A, MIDC
INDUSTRIAL AREA HINGNA
ROAD, NAGPUR NAGPUR
MAHARASHTRA
Phone:07104234844
FAX :07104235656

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	22-JUL-08
Plan/Scheme of Mining		Modif.of approved Mining Plan	29-JAN-13
		Mining Scheme rule 12 MCDR1988	25-OCT-13

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not Applicable	Not Applicable	Area already explored
1b	Exploration over lease area for geological axis 1 or 2	Not Applicable.	Not Applicable.	Area already explored.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Applicable	Not Applicable	Area already explored
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Applicable	Not Applicable	Area already explored
1e	Balance reserve as on 01/04/20		97026T	97026T, Total included Mineable & Remaining resources.
1f	General remarks of inspecting officers on geology, exploration etc			Area already explored upto G1 level.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North-West Direction	North-West Direction	As per approved document development is North-West Direction.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil- NIL, OB & Mineral benches are proposed.	As per document, Top Soil- NIL OB & Mineral benches are develop.	As per document, Top Soil- NIL OB & Mineral benches are develop.
2c	Stripping ratio or ore to OB ratio	Stripping ratio is 1:4.91	Stripping ratio is 1:4.91	Proposed production 3000Ton as per EC.The stripping ratio is 1:4.91.

2d	Quantity of topsoil generation in m3	NIL	NIL	As per approved document it is not proposed.
2e	Quantity of overburden generation in m3	17974 Ton	3900 Ton	Actual OB Generation As per Previous EC.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The ore benches are proposed in 6m height.	Some area the ore benches has been found unsystematic.	Some area the ore benches has been found unsystematic.Lower benches were submerged in the water. The Violation Letter has been issued to the Lessee.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit proposed of production.	One production pit is developed as per approved document	One production pit is developed as per approved document
3b	Quantity of ROM mineral production proposed	3658 Cum	830.88 Cum	Production achieved as per previous EC.
3c	Recovery of sailable/usable mineral from ROM production	3475.10 Cum.	747.792 cum.	Actual recovery of mineral is 90%..
3d	Quantity of mineral reject generation	182.90 cum	83.088 cum	The actualy Quantity of mineral reject generation is 83.088cum
3e	Grade of mineral rejects generation and threshold value declared.	Less than 10% of Manganese.	Less than 10% of Manganese.	As per approved document threshold value is declared less than 10% of Manganese.
3f	Quantity of sub grade mineral generation.	No sub grade generation in the lease area.	No sub garde generation in the lease area.	No sub garde generation in the lease area.

3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	As per approved document is not proposed of sub grade mineral generation
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Method adopted for segregation from ROM is manual.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Applicable	Not Applicable	As per approved document is not proposed.
3j	Provision of drilling and blasting in mineral benches	As Per document are proposed drilling and blasting in mineral benches proposed.	As per proposal.	As per proposal
3k	Provision of mining machineries in mineral benches	As Per approved document are proposed to mining machineries in mineral benches.	As Per approved document are proposed to mining machineries in mineral benches.	As Per approved document are proposed to mining machineries in mineral benches.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	As per approved document 6m height ore benches and ob benches	During the inspection Benches height is 6 meter seen.	
3m	Total area covered under excavation/pits	676.22 m2	61m2	
3n	Ore to OB ratio for the pit/mine during the year.	1.491	1.491	

3o	Total area put in use under different heads at the end of year	3.9421Ha.	3.526 Ha.		
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 441 Ton (3000Ton as per EC) 2017-18 - 374 Ton (3000Ton asa per EC) 2018-19 - 11076 Ton (As per laest document) 2019-20 - 12810.9 Ton (As per Latest Document) 2020-21 - 12802.9 Ton	2016-17 - 2017-18 - 2018-19 - 2019-20 - 2020-21 -	77.967 Ton 1825.30Ton 1003.010Ton 894.850 Ton 2908.076Ton	3000 Ton production is grant latest Ec.
3q	General remarks of inspecting officers on method of mining etc.				

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dumping Top Soil Proposal - Nil Ob & Mineral reject Proposal-Yes	Ob & mineral Reject dupm area is seprated within the lease area.	Ob & mineral Reject dupm area is seprated within the lease area.
4b	Location of topsoil, OB and mineral reject dumps	South-Wset Corner of Lease area	South-West Corner Lease area	
4c	Number of dumps within lease area and outside of lease area	Within lease area 05, Out side Lease area -NIL	Within lease area 05, Out side Lease area -NIL	Within lease area 05, Out side Lease area -NIL

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed in SW area.	Location od dumps w.r.t. ultimate pit limit in SW area.	Location od dumps w.r.t. ultimate pit limit in SW area.
4e	Number of active and alive dumps.	Two Dumps, Dump No.3 & 5	Dupm No.3 & 5 active & alive dump in lease area.	Dupm No.3 & 5 active & alive dump in lease area.
4f	Number of dead dumps.	Three Dumps (1,2 &3).	Three Dumps (1,2 &3).	Three Dumps (1,2 &3).
4g	Number of dumps established.	Three Dump (1,2&4).	Three Dump (1,2&4).	Three Dump (1,2&4).
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes Proposed.	Yes working.	
4i	Length of Retaining wall or garland drain all along dumps	292*1*1 meter	292*1*1 meter	
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer on waste dump management			Dump is manage as per approved document.

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.	Not Proposed	Not Proposed	No Backfilling Proposed
5b	Area under backfilling of mined out area	Not Proposed	Not Proposed	No Backfilling Proposed

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Not Proposed	Not Proposed In Approved Document.
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Not Proposed	Not Proposed in 2020-21

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).		Not Submitted	Violation letter issued on 03/11/2021.
6b	Area available for rehabilitation (ha) .	Not	Not	Mining activities under operation.
6c	afforestation done (ha).	0.009 Hact.	0.009 Hact.	Commulative 0.037 Hact. area is afforestation done.
6d	No. of saplings planted during the year	No.of Saplings Proposed is 100 Numbers.	Sapling 100 is achived during the year.	Sapling 100 is achived during the year.
6e	Cumulative no .of plants	Nil.	400 Plants.	400 Plants done as per PMCP Report 26(2) 2020-21
6f	Any other method of rehabilitation	Not Proposed	Nil	Nil
6g	Cost incurred on watch and care during the year	Not Proposed.		

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Backfilling is not proposed	Not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Applicable.	Not Applicable.	Not Applicable.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not Applicable.	Not Applicable.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed.	Not Proposed.	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed.	Not Proposed.	Not Proposed.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Proposed.	Not Proposed.	Not Proposed.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed.	Not proposed.	Not Proposed.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed.	Not Proposed.	Not Proposed.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not Proposed.	Not Proposed.	Not Proposed.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable.	Not applicable.	Plantation is done the year of 2020-21.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise shorting within lease area is proposed	Yes. the ROM Mineral Grade wise shorting within lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	Manual.	Manual shorting process in this mine.
7c	Different grade of mineral sorted out at mines.	1. Below 25% Manganese. 2. 25% to 36 %. 3. 36 % to 45%. 4. >45%.	1. Below 25% Manganese. 2. 25% to 36 %. 3. 36 % to 45%. 4. >45%.	
7d	Any beneficiation process at mines	Not Proposed.	Not Proposed.	Not Proposed any benification at mines.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Only screening and manual shorting.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed.	Not applicable	
8b	Concurrent use or storage of topsoil	Not Proposed.	Not applicable.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	Yes, dumps are sepreated.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed.	Not applicable.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Not applicable.	Not Proposed.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100. No.of plantation are proposed in 2020-21.	100. No.of plantation are achieved in 2020-21.	

8g	Survival rate	85%.	85%.	
8h	Water sprinkling on roads to control airborne dust	Regular water sprinkling carried out using water tanker.	Regular water sprinkling carried out using water tanker.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is seen office and around area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes Return submitted time to time	Yes Return submitted time to time	Return submitted time to time.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist is appointed in partly employed	Violation letter issued on 03/11/2021 (Rule 55).	Violation letter issued on 03/11/2021 (Rule 55).
9d	Scrutiny of Annual return on afforestation	100 Trees are planted.	Yes. Trees are planted in mines area.	100 Plants , 85 % Survival rate.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	31415 Ton Over Burden is Generated.	ROM 2959 Ton. OB 31415T.	ROM 2959 Ton. OB 31415T.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1067 Ton Closing stock 2020-21.	Yes. 1067 Ton Closing stock in 2020-21.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Below 25% Mn is 5537.00 rupees per ton Ex mine price.	Sale Price 1500 Ton To 5000 T(Below 25 % Manganea	
9h	Scrutiny of Annual return on fixed assets	2281588 Rupees.	Yes fixed asset given the annual return is 2281588 rupees.	

9k	Scrutiny of Annual return on mining machineries	Nil	Manual Working in mines area.	Manual Mines.
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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)	03-NOV-21			
MCDR17	Rule 26(2)	03-NOV-21			
MCDR17	Rule 45(5) (c	03-NOV-21			
MCDR17	Rule 55(1) (3)	03-NOV-21			

Date :

(PRASHAY GAJBHIYE)

Indian Bureau of Mines