

**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 : **D025**) **S. M. DORLE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 14/05/2016
- (v) Prev.inspection date : 30/11/2011

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** : 01/01/2009
- (h) **Weekly day of rest** :
2. **Address for correspondance** :
3. (a) **Lease Number** : MPR2552
- (b) **Lease area** : 6.16
- (c) **Period of lease** :
- (d) **Date of Expiry** : 12/10/2028
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	22/07/2008
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	29/01/2013
	:	Mining Scheme rule 12 MCDR1988	25/10/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	6 nos of boreholes	5 Nos. of boreholes	
1b	Exploration over lease area for geological axis 1 or 2	Proposed	Done	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Exploration agency is Mineral Exploration and Allied Geo services.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2016 is 103950 MT	As per proposal	
1f	General remarks of inspecting officers on geology, exploration etc			5 Nos of borehole drilled in 2015-16

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	At pit no. 1, 2 and 3	As per proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil	NA	
2c	Stripping ratio or ore to OB ratio	1:0.62	--	
2d	Quantity of topsoil generation in m3	250 m3	Around 250 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The development of the pit is more or less as per the approved document.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit No.1,2 and 3	As per proposal	
3b	Quantity of ROM mineral production proposed	403 MT	152 MT	
3c	Recovery of sailable/usable mineral from ROM production	90%	80%	
3d	Quantity of mineral reject generation	20 MT	25 MT	
3e	Grade of mineral rejects generation and threshold value declared.	<10% Mn	As per proposal	
3f	Quantity of sub grade mineral generation.	Nil	NA	
3g	Grade of sub grade mineral generation	NA	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	As per proposal	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	Nil	
3j	Provision of drilling and blasting in mineral benches	Proposed with Jack Hammer 32 mm dia	As per proposal	
3k	Provision of mining machineries in mineral benches	None	NA	
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	16200 m2	As per proposal	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.62	-----	
3o	Total area put in use under different heads at the end of year	3.00 Hect	As per proposal	
3p	Production of ROM mineral during the last five year period as applicable	2013-14 - 5255MT 2014-15-13006 MT 2015-16 - 403 MT	2013-14- 1809MT 2014-15 - 386 MT 2015-16 - 152 MT	
3q	General remarks of inspecting officers on method of mining etc.			Open pit mining with external dumping.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate Dumps are to be done	Separate Dumps are to be done as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	No topsoil Overburden near office	No topsoil Overburden near office	
4c	Number of dumps within lease area and outside of lease area	In lease- 4 No. OB 2 No. Soil dumps	As per proposal in lease- 4 No. OB and 2 No. Soil dumps	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Southwest corner of the lease-7.5 m limit	Near Office SW lease corner -7.5 m limit-2 No.	
4e	Number of active and alive dumps.	None	One	
4f	Number of dead dumps.	Nil	3 Nos	
4g	Number of dumps established.	None	None	

4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	None	
4i	Length of Retaining wall or garland drain all along dumps	NA	Nil	
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer on waste dump management			No topsoil, Overburden near office

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.	NA	NA	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No topsoil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No stage of backfilling

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Nil	Nil
6b	Area available for rehabilitation (ha) .	Nil	Nil
6c	afforestation done (ha).	Nil	Nil
6d	No. of saplings planted during the year	Nil	Nil
6e	Cumulative no .of plants	Nil	Nil
6f	Any other method of rehabilitation	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The plantation is being done as per proposal in near 7.5m boundary

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes proposed	As per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	As per proposal	
7c	Different grade of mineral sorted out at mines.	>10% Mn content	As per proposal	

7d	Any beneficiation process at mines .	None	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation carried out

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil	Nil	
8b	Concurrent use or storage of topsoil	No top soil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden and rejects and fines	As per proposal in mining scheme	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	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)	Nil	Planted 25 nos of plants	
8g	Survival rate	Not proposed	80%	

8h	Water sprinkling on roads to control airborne dust	Proposed	It is being done regularly	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mines area is good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto -April 2016 A.R. submitted upto -2014-2015		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given		
9d	Scrutiny of Annual return on afforestation	Given		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Mineral reject was generated only from old waste dumps	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	848.957 MT		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given		

9h Scrutiny of Annual return on fixed assets Not filled up for 2014- 2015

9k Scrutiny of Annual return on mining machineries Not filled up for 2014- 2015

Columns of annual return filled up more or less correctly

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

Date :
(S. M. DORLE)

Indian Bureau of Mines