

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/BHD/FE-1/NGP

Mine code : 30MSH05001

- (i) Name of the Inspecting : **D025**) **S. M. DORLE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Tembhare, General Manager
Official with
Designation
- (iv) Date of Inspection : 28/08/2017
- (v) Prev.inspection date : 31/07/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KHURSIPAR**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MAHARASHTRA
District : GONDIA
Village : KHURSIPAR
Taluka : AMGAON
Post office : CHIRCHARBANDH
Pin Code :
FAX No. : (0712)-234239
E-mail :
Phone : 232775(M.D.),233101,233419
- (f) Police Station :
- (g) First opening date : 19/01/1993
- (h) Weekly day of rest : SAT
2. Address for : 3RD FLOOR, UDYOG BHAVAN,
correspondance : CIVIL LINES,
NAGPUR-440 001
3. (a) Lease Number : MSH0036
- (b) Lease area : 9.32
- (c) Period of lease : 30
- (d) Date of Expiry : 30/03/2034
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : MAHARASHTRA STATE MINING CORPN. LTD.
 3RD FLOOR, UDYOG BHAVAN,
 OPP. VIKRIKAR BHAVAN, CIVIL
 LINES, NAGPUR NAGPUR
 MAHARASHTRA
 Phone:0712 2565051
 FAX :0712 2565054

Owner : M/S MAHARASHTRA STATE MINING CORPORATION LTD.
 5, ABHYANKAR NAGAR NAGPUR -
 10 NAGPUR MAHARASHTRA
 Phone:
 FAX :

Agent : SHRI C. C. SARKAR
 5, ABHYANKAR NAGAR, P. B.
 NO. 351, DISTT. - NAGPUR
 (M. S.). NAGPUR MAHARASHTRA
 Phone: 526419, 533101, 531849.
 FAX :

Manager
 Name : SHRI S. DAY
 Qualification : FOREMAN'S CERTIFICATE
 Appointment/ : 31/01/2005
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	20/03/2003
		FMCP under 23C(1)	04/11/2008
		Mining Scheme rule 12 MCDR1988	05/08/2009
		Modif.of approved Mining Plan	03/06/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Already explored
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	Already explored
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Not Applicable	
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2017 is proposed- 268111 tonnes	Actual reserves as on 01.04.2017 is- 261848 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The area was explore by MSMC and M/s Century cement in the year 1983 by drilling borehole details are given to the mining plan approved on 03.06.2016

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed Development work is on at pit No. 1 North East and South East	As per proposal	test
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed 1 bench in to soil, 3 benches in OB , 1 benches in Ore	As per proposal.	
2c	Stripping ratio or ore to OB ratio	Proposed 1:10	Actual 1:4	
2d	Quantity of topsoil generation in m3	As per proposal 285 m3	Actual 1000 m3	

2e	Quantity of overburden generation in m3	Proposed 1709 m3	Actual 11300 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			As proposal in modified mining plan quality of soil and OB generated is in higher as mentioned above

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Proposed 2 pits	As per proposal	
3b	Quantity of ROM mineral production proposed	Proposed 35600MT	Actual 5502 MT in 2016-17	
3c	Recovery of sailable/usable mineral from ROM production	Proposed 28480 MT	Actual 5502 MT	
3d	Quantity of mineral reject generation	Proposed 4984 MT	No reject generation	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Not applicable	
3f	Quantity of sub grade mineral generation.	Proposed 4984 MT	No subgrade Mineral generated	
3g	Grade of sub grade mineral generation	Proposal not given	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Proposed Manual method adopted for segregating from ROM	As per proposal	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not applicable	

3j	Provision of drilling and blasting in mineral benches	Proposal for provision of drilling & blasting in mineral benches given	As per proposal
3k	Provision of mining machineries in mineral benches	No proposal of mining machineries in mineral benches	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed height of benches in over-burden and mineral in MP/SOM	As per proposal 3m height of benches proposed
3m	Total area covered under excavation/pits	3.80 hectare total area covered under excavation/pits as per proposal	As per proposal
3n	Ore to OB ratio for the pit/mine during the year.	As per proposal Ore to OB ratio for the pit/mine during the year is 1:10	Actual Ore to OB ratio for the pit/mine during the year is 1:4
3o	Total area put in use under different heads at the end of year	As per proposal total area put in use under different heads at the end of year as follows Pit- 1.14 Hect, Waste/reject 0.20 Hectare Others- 0.51	As per proposal

3p Production of ROM mineral during the last five year period as applicable

Proposed production as per mining plan as under	Actual Production are as follows
Year 2012 - 13- 25000 MT	Year 2012 -13 - 1443.220 MT
Year 2013 - 14-25000 MT	Year 2013 - 14 - 8222.720 MT
Year 2014- 15 laps period	Year 2014- 15 - 8058.340 MT
Year-2015-16 laps period	Year-2015 -16 - 6262.900 MT
Year 2016-17	Year 2016-17 - 5502.900 MT
28480 MT	

3q General remarks of inspecting officers on method of mining etc.

The ore body is friable in nature and need not required drilling and blasting for the year 2014-15. Area has not proposed any production as there is no proposal given due to non approval of mining of lease 9.32 Ha out of which forest land surrender and not getting any clearance from the forest department.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	712 tonnes	5472 tonnea	
4b	Location of topsoil, OB and mineral reject dumps	Eastern side of lease area	As per proposal	
4c	Number of dumps within lease area and outside of lease area	4 nos of dumps (2 Nos of OB dumps, 1 Top soil and one fine)	As per proposal	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Small dump with 7.5m lease boundary	Location on shown on plan	
4e	Number of active and alive dumps.	Active 2 nos. of dump	As per proposal	
4f	Number of dead dumps.	2 Nos. of soil and Overburden	As per proposal	
4g	Number of dumps established.	2 Nos of dead dumps	As per proposals	
4h	Whether Retaining wall or garland drain all along dumps are there.	2 Nos of Garland drain	As per proposal	
4i	Length of Retaining wall or garland drain all along dumps	Not given in mining plan	106 Mts length	
4j	Number of settling ponds	Not proposed	One settling pond	
4k	Specific comments of inspecting officer on waste dump management			There are number of small dump which were stabilised by plantation

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 backfilling proposed at this stage	Not Applicable	
5b	Area under backfilling of mined out area	Not Applicable	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	Nil	NA	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	No stage of backfilling yet started
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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).	Yes	Annual report for PMCP for 2016-17 has been given	
6b	Area available for rehabilitation (ha) .	Not proposed	Not applicale	
6c	afforestation done (ha).	Proposed plantation 0.51 Hect	Actual plantation around 0.75 Hectare	
6d	No. of saplings planted during the year	Proposed 50 Nos. of plants per year	Around 150 plants planted	
6e	Cumulative no .of plants	Proposed 975 No.	around 500 No.	
6f	Any other method of rehabilitation	Nil	Not Applicable.	
6g	Cost incurred on watch and care during the year	Not proposed	Rs 13500/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Proposed	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Not Applicable	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	Not Applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Not Applicable	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Proposed in 0.51 Hectare Land	As per proposal.	
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	Not proposed	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil	Not Applicable	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The Reclamation stage is not yet started

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not proposed	5502MT mineral production no seperate gradewise sorting done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Proposed method of grade-wise mineral sorting is manual	As per proposal	
7c	Different grade of mineral sorted out at mines.	No different grade of mineral sorted out at mines proposed	As per proposal	
7d	Any beneficiation process at mines .	No beneficiation process proposed at mines	As per proposal	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No Separate grade of Iron Ore howeve lump and fines are started separately

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposal for separate removal and utilization of topsoil .	As per proposal	
8b	Concurrent use or storage of topsoil	Not proposed	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed 3560 MT overburden, waste rock, rejects and fines dumps for restoring the land to its original use when backfilling started.	Only seperate stacking is done around 5427 MT.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	for backfilling in future	As per proposal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Not applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed 50 nos of tree per year	Planted around 100 trees during the year	
8g	Survival rate	Not proposed	Around 70%	
8h	Water sprinkling on roads to control airborne dust	Yes proposed	Occasionally, when required	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Presently there is not top soil exit in the lease area however weather rock using for plantation

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 October 2017 A.R. submitted up to March 2017	It is found that most of the columns filled up correctly	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of V.M.Kolwate, Diploma in mining is employed	No degree in Mining person employed at present.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area 2.60 Ha given	Area given in return is found correct
9d	Scrutiny of Annual return on afforestation	Area given 0.75 ha	Information given in the return is found correct
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not generated	Not Generated
9f	Scrutiny of Annual return on ROM stock and/or graded ore	11107.507 Mt	Found correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs 1857 per ton	Found correct
9h	Scrutiny of Annual return on fixed assets	not given	Nil
9k	Scrutiny of Annual return on mining machineries	Mining Machinery given Compressor-2 Nos 50 HP Tipper 3 No. 110 HP Pump-2 No. 19 HP and 05HP respectively	found Correct

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 21(2)	28/09/2017	MCDR17	Rule 21(2)	28/09/2017
MCDR17	Rule 45(5)(c)	28/09/2017	MCDR17	Rule 45(5)(c)	28/09/2017
MCDR17	Rule 27(1)	28/09/2017	MCDR17	Rule 27(1)	28/09/2017

Date :

(S. M. DORLE)

Indian Bureau of Mines