

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details						
1	Name of the Mine	Dongri Buzurg Mine						
	Date of Inspection	27/12/17						
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Lease</th> <th style="width: 25%;">Forest</th> <th style="width: 25%;">Non - forest</th> </tr> </thead> <tbody> <tr> <td>Lease-I (46.25 Ha)</td> <td>6.81</td> <td>39.44</td> </tr> </tbody> </table>	Lease	Forest	Non - forest	Lease-I (46.25 Ha)	6.81	39.44
Lease	Forest	Non - forest						
Lease-I (46.25 Ha)	6.81	39.44						
3	Minecode	40MSH05002						
4	IBM Registration Number under rule 45 of MCDR, 1988	5711/40MSH05002						
5	Name of the lessee, Address, phone, email and fax number	MOIL LTD., MOIL Bhavan,1A, Katol Road, Nagpur. Pin-44001, Ph-0712 2806100						
6	Village	Balapur Hamesha.						
7	Taluka/Mandal	Tumsar						
8	District	Bhandara						
9	Pincode	441907						
10	State	Maharashtra						
11	Post office	Dongri Buzurg						
12	Nearest police station	Gobarwahi						
13	Nearest Railway station	Dongri Buzurg						
14	Date of Grant of Mining Lease	10.04.2002 & Addendum dtd. 10.11.2004						
15	Date of Execution	Dated-24-11-2003 and 08-11-2005						
16	Date of opening of Mine	20/01/1934						
17	Date of first Renewal, if applicable and its period & expiry	04.03.1998 to 03.03.2018						
18	Date of second Renewal, if applicable and its period & expiry	4.3. 2018 to 3.3.2028 (10 years)						
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA						
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Dipankar Shome Director (Prodn & Plng), MOIL LTD, Nagpur. Email: d_shome@moil.nic.in						
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Rajesh Bhattacharya (B.E Mining), Agent and Sr. Dy G.M.(Mines), MOIL LTD, Chikla Mine, Dist-Bhandara, State- Maharashtra. Email:- agentll@moil.nic.in 26/05/2016						
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri. Umakant M. Bhujade (B.E. Mining) Dongri Buzurg Mine, Email: mm.db@moil.nic.in 08/04/2018						
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Deependra R. Pantawane (B.E. Mining) Dongri Buzurg Mine, 9 Years, Email:deependrap372@gmail.com, Date:- 22.01.2016						
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes						
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	314 (3)/1997- MCCM(C)/MP-14 Dated:- 09/09/1998						
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	BHD/MN/MPLN-621/NGP dated 24/05/2016, 2016-17 to 2017-18						
27	Mineral(s) granted in lease and proved for mining	Manganese						
28	Method of Mining(Open cast, Underground)	Open cast						

29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non Captive	Non Captive

Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	0	0	
1b	Exploration over lease area for Geological axis 1 or 2.	2	2	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	MOIL LTD	MOIL LTD, 2800000/-Rs (For All Leases)	
1d	Balance area to be explored to bring Geological axis in 1 or 2	0	0	
1e	Balance reserves as on 01.04.2017	10880612		
1f	General remarks of inspecting officer on geology, exploration etc.	Six no of boreholes are proposed to be drilled from 34 MRL to 184 MRL during the next scheme period.		

Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	CH-15 To CH-48	CH-15 To CH-48	2016-17
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Ch-28 To CH-43	Ch-28 To CH-43	
2c	Stripping ratio or ore to OB ratio	1:4	1:16	
2d	Quantity of topsoil generation in m3	0	0	
2e	Quantity of overburden generation in m3	1730178	3874603	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development work carried out as per proposal , more quantity of overburden was generated during the development work.		

Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	450000	252664	
3c	Recovery of salable/usable mineral from ROM production	80 % recovery	83 %	
3d	Quantity of mineral reject generation	25714 M3	31422 m3	
3e	Grade of mineral reject generation and threshold value declared	17% to 18 %	17% to 18 %	
3f	Quantity of sub-grade mineral generation	nil	nil	
3g	Grade of sub-grade mineral generation	nil	nil	
3h	Manual / Mechanised method adopted for segregating from ROM	manual	manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	nil	nil	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	

SN	Item	Proposals	Actual work	Remarks
3m	Total area covered under excavation/pits	23.20 Ha	23.20 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:4	1:16	
3o	Total area put in use under different heads at the end of year	36.33 Ha	36.33 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2012-13-- 600000 2013-14 -- 364994 2014-15 -- 337197 2015-16 – 350000 2016-17----450000	2012-13--390001 2013-14--364997 2014-15--337197 2015-16—281215 2016-17 252664	
3q	General remarks of inspecting officer on method of mining etc.	Winning of ore within the proposed production limits. However higher recovery of salable/usable mineral from ROM production was observed.		

Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	Yes, As per the SOM	
4b	Location of topsoil, OB & mineral reject dumps	OB- West Dump –A South Dump–B East Dump –C Mineral Reject – Mineral Stack- A Mineral Stack–B	As per proposal	
4c	Number of dumps within lease area and outside lease area	3 within lease area	As per proposal	Two dumps
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	WD-A- 80 Mtr SD-B -250 Mtr ED-C-100 Mtr	As per proposal	
4e	Number of active & alive dumps	2	2	
4f	Number of dead dumps	nil	nil	
4g	Number of dumps stabilized	nil	nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	nil	Already done, only maintenance is carried out from time to time.
4i	Length of Retaining wall or garland drain all along dump	Nil	nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	Dumping is carried out as per the proposal. A retaining wall and garland drain is also made and is maintained from time to time.		

Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposal of back filling		

Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23 E(2). Details should be given in the format as given in Annexure-20.	Yes	Yes	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	Nil	nil	No plantation work done in RY and Cumulative Afforestation is 47795 Trees. Survival Rate - 91.86%
6c	Compliance on reclamation and rehabilitation by backfilling 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	Nil	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil	nil	Cumulative for all leases Afforestation is 166602 Trees.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	There was no proposal of plantation in the RY. It was observed that more sapling were planted than proposed in the previous years.		

Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	manual	manual	
7c	Different grade of mineral sorted out at mines	25% to 35 % 35% to 46 % 46% and above Dioxide	yes	
7d	Any beneficiation process at mines	nil	nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Separate mineral dumps were available within the lease area and grade wise mineral sorting are done manually		

Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB- West Dump –A South Dump–B East Dump –C Mineral Reject – Mineral Stack- A Mineral Stack–B	As per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	nil	

8f	Baseline information on existence of plantation & additional plantation	Nil	Nil	
8g	Survival rate	80 %	80.97 %	
8h	Water sprinkling on roads to control airborne dust	yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	To keep the aesthetic beauty , 47795 saplings are planted till date all around the lease area.		

Compliance of Rule 45

SN	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Nov 2017 A.R. submitted upto 2016-17	

SN	Item	Details given in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Provided	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Provided	
9d	Scrutiny of Annual return on afforestation	Yes	Provided	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Yes	Provided	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Provided	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Yes	Provided	
9i	Scrutiny of Annual return on fixed assets	Yes	Provided	
9k	Scrutiny of Annual return on mining machineries	Yes	Provided	

Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

A) Status of Violation of earlier inspection nil

B) violation observed during the inspection nil

KEWAL KRISHAN

Sr. Mining Geologist

(Name of inspecting officer with designation and date)