

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
1	Name of the Mine	Munsar Mine
	Date of Inspection	29.1.2018
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	108.64 (Total lease area of all the leases .97 Ha, 5.74 ha, 25.15 ha and 108.64 ha Forest –22.24 Ha, Non Forest -118.25 Ha)
3	Minecode	40MSH14010
4	IBM Registration Number under rule 45 of MCDR, 1988	5711
5	Name of the lessee, Address, phone, email and fax number	MOIL Limited, MOIL Bhawan, I A Katol Road, Nagpur 440013. Phone 0712 2592272
6	Village	Munsar
7	Taluka/Mandal	Ramtek
8	District	Nagpur
9	Pincode	441106
10	State	Maharashtra
11	Post office	Kandri
12	Nearest police station	Munsar
13	Nearest Railway station	Ramtek
14	Date of Grant of Mining Lease	1903
15	Date of Execution	1903
16	Date of opening of Mine	1903
17	Date of first Renewal, if applicable and its period & expiry	1962
18	Date of second Renewal, if applicable and its period & expiry	1982
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	D Shome, Director (P&P), MOIL LTD, I A Katol Road, Nagpur 440013. Phone 0712 2592272 13.09.2017
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri R Bhattacharya, Chikla mine, Moil ltd, Maharashtra mines, Tumsar thesil, Bhandara dist. 07183-220231 09.04.2017
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri D R Dekate, Munsar mine, Munsar village, Ramtek tehsil, Nagpur dist 07114 202127 01.02.2017
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Sachin Ramteke, Dy.Chief (Mines) B. E (Mining) & MBA (Marketing), Exp: 12 years, Munsar mine, Munsar village, Ramtek tehsil, Nagpur dist 11.06.2013
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Anil Singh Rajput, Manager (Geo) 06.06.2017

25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	NGP/MN/MPLN-257/NGP, Dated 06/05/2003
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NGP/MN/MPLN-257/NGP, Dated 16/04/2013
27	Mineral(s) granted in lease and proved for mining	Manganese ore
28	Method of Mining(Opencast, Underground)	Underground and dump mining
29	Category (Fully Mechanised, Others or Manual)	mechanized
30	Captive/Non Captive	Non captive

Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	nil	nil	
1b	Exploration over lease area for Geological axis 1 or 2.	nil	nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	nil		
1d	Balance area to be explored to bring Geological axis in 1 or 2	15% of the year is yet to be explored.		
1e	Balance reserves as on 01.04.2017	2396913T		
1f	General remarks of inspecting officer on geology, exploration etc.	Based on the geology of the area the balance is to be explored as per guidelines.		

Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of UG development w.r.t. lease area	-30'L Ch 800 to ch. 1400 & CH.3300 TO 3600 -130'L CH.1500 TO CH. 800 CH 3050 TO 4050 -230'L CH.1500 TO 3250	-30'L CH 2250 TO 3250 -130'L CH 2450 TO CH 2850 -230'L CH 2450 TO CH 2850	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	yes	no	OC mining not carried out
2c	Stripping ratio or ore to OB ratio	1:10	Nil	
2d	Quantity of topsoil generation in m3	nil		
2e	Quantity of overburden generation in m3	11200m3	nil	
2f	Underground development (in RMT)	2609	659.90	
	General remarks of inspecting officer on development w.r.t. type of deposit etc	Development work was carried as per the proposal except OC mining.		

Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	nil	OC mining not carried out

SN	Item	Proposals	Actual work	Remarks
3b	Quantity of ROM mineral production proposed	91680+23000clean ore from dump	29737+22285clean ore from dump	
3c	Recovery of salable/usable mineral from ROM production	60 %	61 %	
3d	Quantity of mineral reject generation	21330	7333	
3e	Grade of mineral reject generation and threshold value declared	<10 %	<10 %	
3f	Quantity of sub-grade mineral generation	12000	6932	
3g	Grade of sub-grade mineral generation	10-20 %	10-20 %	
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	NA		
3j	Provision of drilling & blasting in mineral benches	Yes	nil	The said activities were proposed in case of O/C mining but the same could not be started by the party.
3k	Provision of mining machineries in mineral benches	Yes	nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	nil	
3m	Total area covered under excavation/pits	8.0ha		
3n	Ore to OB ratio for the pit/mine during the year	1:13	nil	
3o	Total area put in use under different heads at the end of year	67.60 Ha	67.60 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	ROM +ore from dump 2012-13 – 50020+29000 2013-14 – 58350+32000 2014-15 – 58350+34000 2015-16 – 58350+33000 2016-17 – 91680+23000	ROM + ore from dump 28135+28583 23202+31227 18467+33090 23194+32388 29737+22285	Returns are being submitted jointly for all the four leases.
3q	General remarks of inspecting officer on method of mining etc.	It is an underground mine and the stoping operations are being carried out overhand flat back cut and fill method. No production from opencast proposal.		

Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	yes	yes	
4b	Location of topsoil, OB & mineral reject dumps	Ch 100 to ch 200 Ch -3600 to Ch.4800	Ch 100 to ch 200 Ch -3600 to Ch.4800	
4c	Number of dumps within lease area and outside lease area	12		

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NW	yes	
4e	Number of active & alive dumps	06		04 mineral dumps and 02 waste dumps
4f	Number of dead dumps	06		
4g	Number of dumps stabilised	06		
4h	Whether Retaining wall or garland drain all along dumps are there	nil	nil	
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	Retaining wall and garland drain are already made earlier. only maintenance is done 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 backfilling		

Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(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	500 Saplings are planted along road in the year 2016-17
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	Stope block from CH 2850 to CH 3050 at 70' level Waste rock and sand nil nil	Stope block from CH 2850 to CH 3050 at 70' level Waste rock and sand nil nil	Back filling by sand stowing

SN	Item	Proposals	Actual work	Remarks
	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	nil	nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	All the Environmental parameters are being monitored and are within the limits		
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	It is being carried out as per proposal. 500 Saplings are planted along road in the year 2016-17		

Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting	yes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	yes	
7c	Different grade of mineral sorted out at mines	14 grades of different grade and size (25% -38 % Mn)	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 with in 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)	02	yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	For back filling in underground	yes	
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	2625 Saplings	As per proposal	79320 saplings are planted till date
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	By using water tankers	As per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	To keep the aesthetic beauty ,79320 saplings are planted till date		

Compliance of Rule 45

SN	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted jointly upto Dec 2018 for all the four leases A.R. submitted jointly upto 2016-17 for all the four leases	

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

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)