

MCDR INSPECTION REPORT (FOR ALL LEASES)

General

S. N.	Particulars	Details		
1	Name of the Mine	Dongri Buzurg Mine Balapur Hamesha		
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Lease	Forest Ha	Non Forest Ha
		Lease-I (46.25 Ha)	6.81	39.44
		Lease-II & III (53.98 Ha ----&69.50 Ha)----	34.43 59.21	19.55 10.29
		Lease-IV (4.07 Ha)	1.71	2.36
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 BHAVAN, 1A-Katol road, Nagpur Pin-44001, Ph-0712 2806100		
6	Village	Balapur Hamesha, Dongri Buzurg and Kurmuda.		
7	Taluka/Mandal	Tumsar		
8	District	Bhandara		
9	Pincode	441907		
10	State	Maharashtra		
11	Post office	Dongri Buzurg		
12	Nearest police station	Goberwahi		
13	Nearest Railway station	Dongri Buzurg		
14	Date of Grant of Mining Lease	46.25 Ha.	MMN-2299/CR-7718/IND-9, MMN-2299/CR-7718/IND-9	Dated-12/04/2002 10/11/2004.
		53.98 Ha	MMN-1004/CR-686/IND-9	Dated 16/09/2004
		69.50 Ha	MMN-2201/CR129/IND-9 Corrigendum – MMN - 22012201/CR129/IND-9	Dated-06/10/2010 Dated-09/06/2011
		4.07 Ha	MMN-2220/CR-8073/IND-9	Dated-10/06/2011
15	Date of Execution	46.25 Ha.	Dated-24-11-2003 and 08-11-2005	
		53.98 Ha	Dated-12-09-2005.	
		69.50 Ha	Dated-16-07-2012	
		4.07 Ha	Dated-09-12-2011. And 28/09/2014	
16	Date of opening of Mine	20/01/1934		
17	Date of first Renewal, if applicable and its period & expiry	46.25 Ha	MMN-2299/CR.7718/IND-9 Dated 12-04-2002	Date Of expiry – 03/03/2018
		53.98 Ha	MMN-2282/101227/(3179)/IND-9 Dated 09/10/2009	Date of expiry – 03/03/2009

		Ha	Dated 06/10/2010	Expiry – 17/02/2021
18	Date of second Renewal, if applicable and its period & expiry	53.98 Ha	MMN-1004/CR-686/IND-9 Dated 16/05/2004	Date of expiry – 30/06/2022
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, Executive Director (Tech), 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 Dy G.M.(Mines), MOIL LTD, Chikla Mine, Dist-Bhandara, State- Maharashtra. Email: agent11@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 R.U Singh, Dongri Buzurg Mine, (B.E Mining), Email: mm.db@moil.nic.in		
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Vikrant Khedikar, B.E Mining, 11 Years, Dongri Buzurg Mine, vikrant.moil@gmail.com, 05/06/2012		
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.	46.25 Ha	314 (3)/1997- MCCM(C) /MP-14 Dated: - 09/09/1998 ,	1998-99 To 2017- 18
		53.98 Ha	314 (3)/1997- MCCM(C) /MP-20 Dated: - 15/10/2003	2002-03 To 2021- 22
		70.50 Ha (69.50 Ha)	314 (3)/2003- MCCM(C) /MP-21 Dated: - 15/10/2003	2002-03 To 2021- 22
		4.07 Ha	314 (3)/2008- MCCM(CZ) /MP-11 Dated: -28/08/2008	2008-09 To 2031- 32
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	46.25 Ha	BHD/MN/MPLN-621/NGP dated 24/05/2016,	2016-17 to 2017- 18
		53.98 Ha	BHD/MN/MPLN- 621(B)/NGP Dated	2012-13 To 2016- 17
		69.50 Ha	13/05/2013	
		4.07 Ha	SOM Under Process	
27	Mineral(s) granted in lease and proved	Manganese		

28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/Non Captive	Non Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

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 (For All Leases)	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	MOIL LTD	MOIL LTD, 4576000/-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 01.04.2016	Lease		
		46.25	3917654	
		53.98 & 69.50	104999	
		4.07	0	
		Total	4022653	
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration of 2 boreholes were carried out by MOIL as per proposal.		

Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	46.25	CH-29 To CH-35	CH-29 To CH-35 CH-15 To CH-42 CH-25 To CH-40
		53.98 & 69.50	CH-14 To CH-42	
		4.07	CH-25 To CH-40	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	46.25	F/W – 14, H/W - 10	F/W – 8, H/W - 9
		53.98 & 69.50		
		4.07		
2c	Stripping ratio or ore to OB ratio	46.25	1:6	1:8 1:12 Nil
		53.98 & 69.50	1:10	
		4.07	Nil	
2d	Quantity of topsoil generation in m3	46.25	Nil	Nil 36000 m3 in 4.07 Ha Lease
		53.98 & 69.50	Nil	
		4.07	82360	
2e	Quantity of overburden generation in m3	3040898	4134490	For all leases
2f	General remarks of inspecting officer on development of nit w r t	Development work was carried as per the proposal. More quantity of overburden		

		advanced.	
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Exploitation

SN	Item	Proposals		Actual work		Remarks
3a	Number of pits proposed for production	1		1		
3b	Quantity of ROM mineral production proposed	350000 Te		281215Te		For all leases
3c	Recovery of salable/usable mineral from ROM production	80 % recovery		89 % from Bed 15% from dump		
3d	Quantity of mineral reject generation	46.25	18000 M3	13750 M3		
		53.98 & 69.50	5143	4500 M3 in 53.98		
		4.07	NIL	NIL		
3e	Grade of mineral reject generation and threshold value declared	46.25	17% to 18 %	17% to 18 %		
		53.98 & 69.50	17% to 18 %	17% to 18 %		
		4.07	-	-		
3f	Quantity of sub-grade mineral generation	46.25	-	-		
		53.98 & 69.50	-	-		
		4.07	-	-		
3g	Grade of sub-grade mineral generation	-		-		
3h	Manual / Mechanized method adopted for segregating from ROM	manual		manual		
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Sampling Done		Sampling Done		
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		
3m	Total area covered under excavation/pits	46.25 Ha	38.427 Ha	31.98 Ha (For all leases)		
		53.98 Ha & 69.50 Ha				
		4.07 Ha				
3n	Ore to OB ratio for the pit/mine during the year 2015-16	46.25 Ha	1:6	46.25 Ha	1:8	
		53.98 Ha & 69.50 Ha	1:10	53.98 Ha & 69.50 Ha	1:12	
		4.07 Ha	-	4.07 Ha	-	
3o	Total area put in use under different heads at the end of year	46.25 Ha	41.523 Ha	40.92 Ha		
		53.98 Ha & 69.50 Ha	83.44 Ha	83.20 Ha		
		4.07 Ha	2.36 Ha	2.36 Ha		

SN	Item	Proposals	Actual work	Remarks
3p	Production of ROM mineral during last five-year period, as applicable	2014-15 - 337197 2013-14 - 364994 2012-13 - 600000 2011-12 - 600000 2010-11- 570000	2014-15 - 337197 2013-14 - 364994 2012-13 - 390001 2011-12 -298993 2010-11- 303383	
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)	46.25	Yes	Yes As per the SOM	
		53.98	Yes		
		& 69.50			
		4.07	Yes		
4b	Location of topsoil, OB & mineral reject dumps	46.25	OB- West Dump –A And South Dump –B East Dump – C Mineral Reject – Mineral Stack- A, Mineral Stack –B	OB- Waste Dump-A East Dump – C Mineral Reject – Mineral Stack- A, Mineral Stack –B	
		53.98 & 69.50	OB- Purchased Land (Dump -1 and Dump-2) Mineral reject- will be stacked at the same place and utilize for future use on feasibility,	OB- Purchased Land (Dump -1 and Dump-2) Mineral reject- is stacked at the same place and utilize for future use on feasibility,	
		4.07	OB- Old dump Soil- For stabilization of old dump	OB- Old Dump Soil- For stabilization of old dump	
4c	Number of dumps within lease area and outside lease area	3 within lease area 2 outside lease		3 within lease area 2 outside lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	46.25	WD-A- 80 Mtr SD-B - 250 Mtr ED-C-100 Mtr	WD-A- 80 Mtr SD-B -250 Mtr ED-C-100 Mtr	
		53.98 & 69.50	WD-5-150 Mtr WD-6-320	WD-5-150 Mtr WD-6-320 Mtr	

		4.07	-	-	
4e	Number of active & alive dumps	4		4	For all leases
4f	Number of dead dumps	2		2	Only for 53.98 and 69.50
4g	Number of dumps stabilized	2		2	Only for 53.98 and 69.50
4h	Whether Retaining wall or garland drain all along dumps are there	2		2	Third in process
4i	Length of Retaining wall or garland drain all along dump	Nil		140 Mtrs	
4j	Number of settling ponds	Nil		Nil	
4k	Specific comments of inspecting officer on waste dump management	Previously dumping was carried on purchased land outside the lease area which has been stopped after the enactment of MCR 2016.			

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	46.25	No plantation work done in RY and Cumulative Afforestation is 47795 Trees. Survival Rate - 73.39% Area covered – 7.06 Ha	Cumulative for all leases Afforestation is 166602 Trees. Survival Rate -80.97% Area covered – 67.47 Ha
		53.98 & 69.50	20000 Nos Planted from 2013 to 2015 1.27 Lakhs incurred in 15-16 for watch and care. No Plantation work done in RY and	

SN	Item	Proposals	Actual work	Remarks
			Afforestation is 118807 Trees planted. Survival Rate - 88.56% Area covered – 60.41 Ha	
		4.07	Nil	Active
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	46.25	Nil	Nil
		53.98 & 69.50	Nil	Nil
		4.07	Nil	Nil
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	46.25	Nil	No plantation work done in RY and Cumulative Afforestation is 47795 Trees. Survival Rate - 73.39% Area covered – 7.06 Ha
		53.98 & 69.50	4000	20000 Nos Planted 2013 to 2015 1.27 Lakhs incurred in 15-16 for watch and care. No Plantation work done in RY and Cumulative Afforestation is 118807 Trees planted. Survival Rate - 88.56% Area covered – 60.41 Ha
		4.07	Nil	Nil
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	25% to 35 % 35% to 46 % 46% and above Dioxide	
7d	Any beneficiation process at mines	NA	NA	
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 were done manually.		

Environment

SN	Item	Proposals		Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	46.25	Nil	Nil	
		53.98 & 69.50	Nil	Nil	
		4.07	Soil- For stabilization of old dump	For Plantation as per in point no 6d.	
8b	Concurrent use or storage of topsoil	Nil		Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	46.25	OB- West Dump –A And South Dump –B East Dump – C Mineral Reject – Mineral Stack- A, Mineral Stack –B	OB- Waste Dump-A East Dump – C Mineral Reject – Mineral Stack- A, Mineral Stack -B	
		53.98& 69.50	Yes	As per SOM	
		4.07	Yes (Soil)	For Plantation as per in point no 6d.	
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		Active leases	
8f	Baseline information on existence of plantation & additional plantation	Nil		Nil	
8g	Survival rate			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	Stabilization of old matured dumps were done by plantation using top soil removed. Dust suppression measures in			

Compliance of Rule 45

SN	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Nov-16 A.R. submitted upto 2015-16	

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	Production as mentioned in Part IV,V & VI is not matching	Violation letter for violation of Rule 45 issued on 16/01/2017
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Constituent analysis as per part V (c) shows very high Mn content ore but in the mineral reserves, grade is mentioned as medium grade lump	
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: -

During the inspection violation of Rules 12(3), 28, 45 & 46 were observed and the same has been communicated to the lessee vide letter no.MAH/CDN/LST-20/NGP Dt. 16.01.2017. Earlier to the inspection, violation of Rule 23(F) of MCDR'1988 was pointed out on 15/02/2016 but the same has been complied by the lessee by submitting Bank Guarantee.

Nagpur, 22nd February'2017

(Arun Kumar)
Deputy Controller of Mines