

MCDR INSPECTION REPORT

**General**

SN		Details
1	Name of the Mine	Beldongri Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Lease 26.66ha.
2a	Date of Inspection	14.09.2017
3	Mine code	40MSH14002
4	IBM Registration Number under rule 45 of MCDR, 2017	5711
5	Name of the lessee, Address, phone, email and fax number	MOIL LTD, I A Katol Road, Nagpur 440013
6	Village	Beldongri village
7	Taluka/Mandal	Parseoni
8	District	Nagpur
9	Pincode	441106
10	State	Maharashtra
11	Post office	Satak
12	Nearest police station	Ramtek
13	Nearest Railway station	Ramtek
14	Date of Grant of Mining Lease	1901 01.07.1962 (Transferred to MOIL)
15	Date of Execution	1901
16	Date of opening of Mine	1901
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	Shri D. Shome, Director P&P MOIL Ltd. 1A Katol Road Nagpur (M.S.) 440013 Ph. (0) : 0712-258946 E-Mail ID: <a href="mailto:d_shome@moil.nic.in">d_shome@moil.nic.in</a> Date of appnt.:29 August 2008
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Rajesh Bhattacharaya Munsar Mine Post : Khairi Bijewada, Tah : Ramtek Dist. Nagpur (Maharashtra) Pin Code n. 441106 Ph. (0) 07114-202501 E-Mail ID: <a href="mailto:agentiii@moil.nic.in">agentiii@moil.nic.in</a> Date of appnt. : 24 December 1997
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Manoj Kumar Beldongri Mine, P.O. Satak, Tah : Parseoni, Dist : Nagpur (MS) Pin Code : 441106 Ph. (0) 07102-202022 E-Mail ID: <a href="mailto:mm.bl@moil.nic.in">mm.bl@moil.nic.in</a> Date of appnt. : 07 February 1993

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Kamlesh Fulzele Qualification : Mining Engineer, Beldongri Mine, P.O. Satak, Tah : Parseoni, Dist : Nagpur (MS) Pin Code : 441106 Ph. (0) 07102-202022 E-Mail ID: <a href="mailto:mm.bl@moil.nic.in">mm.bl@moil.nic.in</a>
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Shri A.S.Rajput Geologist (Part time)
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-494/NGP, DT:22.10.2013
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-261/NGP, DT: 24.07.2013
27	Mineral(s) granted in lease and proved for mining	Manganese
28	Method of Mining(Open cast, Underground)	Underground
29	Category (Fully Mechanised, Others than Fully Mechanised or Manual)	Mechanized
30	Captive/Non Captive	Non Captive

### **Exploration**

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	nil	nil	Two underground boreholes are proposed in scheme period. But Instead of boreholes two winzes are being done
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	nil	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	nil	nil	
1e	Balance reserves/resources as on 01.04.2017	1,68,820 T		
1f	General remarks of inspecting officer on geology, exploration etc.	Few boreholes can be drilled to prove to deposit in the deeper level.		

### **Development**

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	15m winze at -148 level	Nil	The winzing will be done in current year
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	nil	nil	
2c	Stripping ratio or ore to OB ratio	nil	nil	
2d	Quantity of topsoil generation in m <sup>3</sup>	nil	nil	
2e	Quantity of overburden generation in m <sup>3</sup>	nil	nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	It is a U/G mine, material from the Underground workings is brought into the Ore Cleaning Floor(OCF) in the lease area..		

### **3.0 Exploitation**

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	nil	nil	
3b	Quantity of ROM mineral production proposed	25064 T & 1000T from dump	24903 T + 979 T cleaned ore from dump	
3c	Recovery of salable/usable mineral from ROM production	78%	74%	
3d	Quantity of mineral reject generation	5514 T	8477 T	
3e	Grade of mineral reject generation and threshold value declared	<10 %	<10 %	
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	nil	nil	
3k	Provision of mining machineries in mineral benches	nil	nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	nil	nil	
3m	Total area covered under excavation/pits	nil	nil	
3n	Ore to OB ratio for the pit/mine during the year	nil	nil	
3o	Total area put in use under different heads at the end of year	14.85 Ha	14.85 ha.	
3p	Production of ROM mineral during last five-year period, as applicable	ROM+ from dump 2012-13 27820 T+939 2013-14 37363T+1000 2014-15- 27996T+1000 2015-16- 23238T+1000 2016-17 25064T+1000	ROM +ore from Dump 27820T +939 31719T +996 30939T +185 30056T + 1998 32401T +979	
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..		

### **4.0 Solid Waste Management-Dumping**

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	8400 T	8477 T	
4b	Location of topsoil, OB & mineral reject dumps	E 5300 TO 5450 N 5650 TO 5700	AS PER PROPOSAL	

4c	Number of dumps within lease area and outside lease area	04	04	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	North and north west side	As per proposal	
4e	Number of active & alive dumps	03	03	
4f	Number of dead dumps	01	01	
4g	Number of dumps stabilised	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there	nil	nil	Already done in the previous years.
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	Dumps management is being carried out properly and are as per the proposal .The retaining /garland drains has been already made during the previous year.		

#### **5.0 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 36)	nil	nil	
5d	Total area fully reclaimed & rehabilitated	nil	nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposal of backfilling.		

#### **6.0 Progressive Mine Closure Plan**

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be given in the format as given in Annexure-20	Yes	nil	
	Management of worked/mined out benches	nil	nil	
6b	i) Area available for rehabilitation (ha)	nil	nil	
6c	ii) Afforestation done (ha)	nil	nil	
6d	iii) No. of saplings planted during the year	nil	nil	
6e	iv) Cumulative no. of plants	nil	nil	
6f	v) Any other specific method of rehabilitation	nil	nil	
6g	vi) Cost incurred on watch & care during the year	nil	nil	

	Compliance on reclamation and rehabilitation by backfilling	nil	nil	
6h	i) Voids available for backfilling (L X B X D)	Stope block between ch.50 to -250 & ch. -50 to +150 at 148 level	yes	
6i	ii) Void filled by waste/tailings	Waste rock and sand	yes	
6j	iii) Afforestation on the backfilled area	nil	nil	
6k	iv) Rehabilitation by making water reservoir	nil	nil	
6l	v) Any other specific means	nil	nil	
	Compliance of Rehabilitation of waste land within lease	nil	nil	
6m	i) Afforestation	nil	nil	
6 n	ii) Area rehabilitated (ha)	nil	nil	
6o	iii) Method of rehabilitation	nil	nil	
6p	Compliance of Environmental monitoring (core zone & buffer zone)	All environmental parameters are within the limit	yes	
6q	General remarks of inspecting officer on PMCP compliance & progressive	Under PMCP/Closure operations, only environmental monitoring is being done in the lease area in alliance with the other lease.		

### **7.0 Mineral Conservation**

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting	As per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	yes	
7c	Different grade of mineral sorted out at mines	20-42 % Mn , five grades of different sizes		
7d	Any beneficiation process at mines	nil	nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade –wise sorting is being carried out manually, no other method is used for beneficiation.		

### **8.0 Environment**

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	nil	nil	
8b	Concurrent use or storage of topsoil	nil	nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	02	02	Mineral reject
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Used for back filling in U/G	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 done (Rule 44)	100	500	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	YES	yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	To keep the aesthetic beauty intact of the area, suppression of dust on the mine is being done by sprinkling of water.		

### 9.0 Compliance of Rule 45

SN	Item	comments	Observation of I/Officer	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Aug2017 A.R. submitted for the year 2016-17		
9b	Information on Mining Engineer, Geologist and Manager	yes	Yes found correct	
9c	Land use pattern for area under pits, reclaimed area, dumps etc.	yes	Yes found correct	
9d	Afforestation	yes	Yes found correct	
9e	Mineral reject generation (Grade & quantity)	yes	Yes found correct	
9f	ROM stock and/or graded ore	yes	Yes found correct	
9g	Sale value, Ex. Mine price & production cost	yes	Yes found correct	
9i	Fixed assets	yes	Yes found correct	
9k	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)