

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of the inspecting officer	J.S. Hada, AMG
2	Date of inspection	12.9.2017
3	Accompanying mine official	Shri Sunil Paul, Chief Geologist
4	Name of the Mine	Metabodeli Iron Ore Mines
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	25 Hectare Forest land = 25 Hectare
6	Mine code	30CHG08001
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4800/2011
8	Name of the lessee, Address, phone, email and fax number	M/s Jayaswal Neco Industries Ltd. F-8, MIDC, Industrial Area, Hingna Road Nagpur, District – Nagpur, Maharashtra. Phone Number- 07104-237276/236251/395682-84 Fax – 07104-237583/236255 E-mail – contact@necoindia.com
9	Village	Metabodeli
10	Taluka/Mandal	Pakhanjur
11	District	Kanker
12	Pin code	494665
13	State	Chhattishgarh
14	Post office	Chargaon
15	Nearest police station	Siksod
16	Nearest Railway station	Gudum
17	Date of Grant of Mining Lease	11/01/2002
18	Date of Execution	17/01/2002
19	Date of opening of Mine	05/08/2002
20	Date of first Renewal, if applicable and its period &	NA

	expiry	
21	Date of second Renewal, if applicable and its period & expiry	NA
22	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
23	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Megh Pal Singh M/s Jayaswal Neco Industries Ltd. F-8, MIDC, Industrial Area, Hingna Road Nagpur, District – Nagpur, Maharashtra. Phone Number- 07104-237276/236251/395682-84 Fax – 07104-237583/236255 Date of Appointment – 22/12/2014 E-mail – contact@necoindia.com
24	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. T. Prasanna Kumar M/s Jayaswal Neco Industries Ltd. Rana House, Near Government ITI, Dallirajhara Road, Bhanupratappur. E-mail- tembe.prasanna@necoindia.com Date of Appointment – 22/03/2017 Phone No. 09109119092
25	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Santosh Kumar Singh M/s Jayaswal Neco Industries Ltd. Rana House, Near Government ITI, Dallirajhara Road, Bhanupratappur. Date of Appointment – 23/03/2017 Phone No. 09109118924
26	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Santosh Kumar Singh M/s Jayaswal Neco Industries Ltd. Rana House, Near Government ITI, Dallirajhara Road, Bhanupratappur. E-mail- tembe.prasanna@necoindia.com Date of Appointment – 15/04/2017 Phone No. 09109118924
27	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Santosh Kumar Singh, B.E. Mining, Mining Engineer Lokesh Kumar Sahu, M.Tech. Geology Geologist
28	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	02/04/1996 (BST/Fe/MPLN-465/NGP) Modified MP- 24/8/2016 (2017-18 to 2021-22)

29	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	27/06/2013 (2012-13 to 2016-17)
30	Mineral(s) granted in lease and proved for mining	Iron Ore
31	Method of Mining(Open cast, Underground)	Open Cast
32	Category (Fully Mechanised, Others or Manual)	Other than Fully Mechanised (Category – A OTFM)
33	Captive/Non Captive	Captive
34	F.A. amount	Rs. 215225/- valid up to 09.01.2022 Rs. 3927100/- Valid up to 04.08.2022 Rs. 357500/- Valid up to 04.08.2022
35	EC	50, 000 tpa

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

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	12.11 ha	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	M/s Jayaswal Neco Industries Ltd. F-8, MIDC, Industrial Area, Hingna Road Nagpur, District – Nagpur, Maharashtra. Phone Number- 07104- 237276/236251/395682-84 Fax – 07104-237583/236255 Expenditure incurred = Rs. 56.00 Lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	6.85 Ha	

1e	Balance reserves as on 01.04.2017		Geological Reserves: 111 - 10.92 mt 122 - 1.56 mt 333 - 6.54 mt	Reserve have been re-estimated after the completion of exploration work
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration work adequate.		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	E-522745 N-2241500 E-522860 N-2241600	E-522745 N-2241500 E-522860 N-2241600	As per the plan of previous approved mining scheme.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NA	NA	
2c	Stripping ratio or ore to OB ratio	1:0.90	--	Negligible waste generation
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	Nil	Nil	Nil
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Nil		

Exploitation

	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	224000	49950.00	
3c	Recovery of saleable/usable mineral from ROM production	201600	48450.00	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	threshold value – Fe% - 45	threshold value – Fe% - 45	
3f	Quantity of sub-grade mineral generation	22400 t	1500 t	
3g	Grade of sub-grade mineral generation	Fe % Below 55%	Fe % Below 55%	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual & Mechanised	Manual & Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	None	NA	
3j	Provision of drilling & blasting in mineral benches	DTH drill 63 mm dia, Spacing 2.4m, depth 6m, burden 2.2m	Mostly soft strata, for hard boulders/portions Rock breaker is being used.	
3k	Provision of mining machineries in mineral benches	Excavator cum Rock breaker, Pay Loader, Ripper Dozer, Dumper, etc.	Excavator, Dumper/Tipper combination	

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	2.28 Ha	2.28 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.00	-----	Negligible
3o	Total area put in use under different heads at the end of year	3.6 750 Ha	3.65750 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	771750	2016-17 = 49950 2015-16 = 49010 2014-15 = 45002 2013-14 = 0.00 2012-13 = 0.00	
3q	General remarks of inspecting officer on method of mining etc.	Nil		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No topsoil generation	No topsoil generation	
b	Location of topsoil, OB & mineral reject dumps	No topsoil generation	No topsoil generation	
4c	Number of dumps within lease area and outside lease area	Nil	Nil	Negligible waste generation
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	Negligible waste generation
4e	Number of active & alive dumps	Nil	Nil	Negligible waste generation
4f	Number of dead dumps	Nil	Nil	

4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	NA	
4i	Length of Retaining wall or garland drain all along dump	No proposal	NA	
4j	Number of settling ponds	No proposal	01	
4k	Specific comments of inspecting officer			

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 32)	No topsoil generation	No topsoil generation	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Nil		

6.0 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.	-	-	Violation issued
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	NA	NA	
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	NA	NA	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)		Monitoring of Air, Water, Noise pollution is being monitored regularly.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Nil		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	55 % To 62 % iron ore is to be utilised at captive plant	Iron ore is being utilised as per the approved scheme of Mining	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual & Mechanised	mineral sorting is done as per the approved MMP	
7c	Different grade of mineral sorted out at mines	55 % To 62 % iron ore is to be processed	mineral sorting is done as per the approved MMP	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil generation	No topsoil generation	
8b	Concurrent use or storage of topsoil	No topsoil generation	No topsoil generation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	Waste generation is negligible during the plan period
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 done (Rule 41)	100 saplings	2500 saplings planted	
8g	Survival rate	Not Proposed	75%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling will be done on regular basis	Water Sprinkling is done on regular basis	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Nil		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	MR and AR 2016-17 are being submitted regularly online.	

S.N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Santosh Kumar Singh, Manager & ME, Lokesh Kumar Sahu, Geologist,	Details furnished	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under current workings – 3 ha	Area under current workings approx 3 ha	
9d	Scrutiny of Annual return on afforestation	1000 plantation done with about 50 species	Plantation outside lease area	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject Generation - 0	Mineral Reject - Negligible	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock -11705 t	Closing stock -11705 t	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price- Rs 1500 per tonne Cost of production – Rs 1500 per tonne	Ex-mine price- Rs 1500 per tonne Cost of production – Rs 1500 per tonne, Ex-mine price and cost of production same as the mine is captive.	
9i	Scrutiny of Annual return on fixed assets	Value of fixed assets- Rs 40481320	Value of fixed assets- Rs 40481320	
9k	Scrutiny of Annual return on mining machineries	Front End Loader-1 Shovel - 1 Jeep/tractor - 3 Tipper - 1 Pumps - 3 Water Tanker - 2	Front End Loader-1 Shovel - 1 Jeep/tractor - 3 Tipper - 1 Pumps - 3 Water Tanker - 2	

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

No outstanding violation. During the present inspection, violation of Rule 26 (2) was pointed out.

(J.S. Hada)
Assistant Mining Geologist