

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
	Name of the inspecting officer	J.S. Hada, AMG
	Date of Inspection	13.9.2017
	Accompanying mine official	Shri Sunil Pal, Chief Geologist
1	Name of the Mine	Laindongari Iron Ore Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	14.40 Ha Protected Forest Land – 9.50 Ha Non Forest Land – 4.90 Ha
3	Mine code	30CHG08006
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4800/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Jayaswal Neco Industries Ltd. F-8, MIDC, Hingna Road, Nagpur -440016
6	Village	Barbaspur
7	Taluka/Mandal	Bhanupratappur
8	District	Kanker
9	Pin code	494670
10	State	Chhattishgarh
11	Post office	Hatkarra
12	Nearest police station	Korar
13	Nearest Railway station	Gudum
14	Date of Grant of Mining Lease	26/09/2014
15	Date of Execution	16/10/2014
16	Date of opening of Mine	24/12/2014
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
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	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

21	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
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Sanjay Kumar Sahu M/s Jayaswal Neco Industries Ltd. Rana House, Near Government ITI, Dallirajhara Road, Bhanupratappur. Date of Appointment – 09/09/2017 Phone No. 09109118929
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Pradeep Kumar M/s Jayaswal Neco Industries Ltd. Rana House, Near Government ITI, Dallirajhara Road, Bhanupratappur. E-mail- pradeepthenitian@gmail.com Date of Appointment – 28/08/2017 Phone No. 09109118931
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Sanjay Kumar Sahu, B.E (Mining) , Mining Engineer Shri Naresh Kumar Nirmalkar, M.Sc. Geology, Geologist.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	06/05/5016
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Iron Ore
28	Method of Mining(Open cast, Underground)	Open Cast
29	Category (Fully Mechanised, Others or Manual)	Category – "A" (Other than fully mechanised)
30	Captive/Non Captive	Captive
31	EC	1,80,000 tpa
32	FA	Rs 200000/- valid up to 10.10.2019 Rs 1616200/- valid up to 10.10.2019

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	14 Nos. vertical bore holes have been drilled.	Exploration work completed on 21/02/2015
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	7.43 Ha	
1c	Exploration Agency & Expenditure in lakh Rupees during the year		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. 23.00 Lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2017		Geological Reserve = 0.961 MT 111 - 954088 t 211 - 7655 t	
1f	General remarks of inspecting officer on geology, exploration etc.	Nil		

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	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Nil	Nil	
2c	Stripping ratio or ore to OB ratio (Tonnes/Cum)	1:1.10	1:0.24	
2d	Quantity of topsoil generation in m ³	No top soil generation	No top soil generation	
2e	Quantity of overburden generation in m ³	20105 m ³	21,953 m ³	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Nil		

3. Exploitation

	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	180000	93650.00	Low production due to Law and order condition.
3c	Recovery of salable/usable mineral from ROM production	162000	87650.00	
3d	Quantity of mineral reject generation	No rejects has been proposed	Nil	
3e	Grade of mineral reject generation and threshold value declared	threshold value declared Fe 45 %	threshold value declared Fe 45 %	
3f	Quantity of sub-grade mineral generation	18000	6000	
3g	Grade of sub-grade mineral generation	Below Fe 55%	Below Fe 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	Not Proposed	Not Proposed	
3j	Provision of drilling & blasting in mineral benches	Jack Hammer, 32 mm dia, Air Compressor, Excavator cum Rock breaker	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,	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	1.394 Ha	1.23 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:1.10	1:2.84	
3o	Total area put in use under different heads at the end of year	6.054 Ha	2.00 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2016-17 = 180000 2015-16 = 162000 2014-15 = 60000	2016-17 = 93650.00 2015-16 = 59663.850 2014-15 = 59700.00	

		2013-14 = 0.00 2012-13 = 0.00	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)	01	01	
b	Location of topsoil, OB & mineral reject dumps	E -522600 N- 2241700 E- 522700 N - 2241750	E -522600 N- 2241700 E- 522600 N - 2241750	
4c	Number of dumps within lease area and outside lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	E -522600 N- 2241700 E- 522700 N - 2241750	E -522600 N- 2241700 E- 522600 N - 2241750	
4e	Number of active & alive dumps	01	01	
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	yes	yes	
4i	Length of Retaining wall or garland drain all along dump	1400 X 2 X2	1400 X 2 X2	
4j	Number of settling ponds	04	04	
4k	Specific comments of inspecting officer	Nil		

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	Entire float has to be collected from the area	floats have been collected	
5b	Area under backfilling of mined out area	6.093	6.093	

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	6.970 ha X 2m	Mined out land would be flat topography hence no reclamation is required the area will be taken up for plantation	
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.	No	No	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	No proposal made	None	
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	6.970 Ha X 2m	Mined out land would be flat topography hence no reclamation is required the area will be taken for plantation	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	500 saplings / year	3500 saplings planted	
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	Manual & Mechanised	
7c	Different grade of mineral sorted out at mines	55 to 62 % Fe as graded ore & Below 55 % Fe as sub grade	55 to 62 % Fe as graded ore & Below 55 % Fe as sub grade	
7d	Any beneficiation process at mines	Not proposed	Not Proposed	
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 top soil generation	No top soil generation	
8b	Concurrent use or storage of topsoil	No top soil generation	No top soil generation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	separate dump for the OB is proposed at the northern part of the ML area	Dumping is done at earmarked area as per approved mining plan	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There will be no waste generation, however generated waste is proposed for the backfilling of the mined out area	Area will be available from 3rd year onwards	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mined out land would be flat topography hence no reclamation is required the area will be taken for plantation	Mined out land would be flat topography hence no reclamation is required the area will be taken for plantation	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	plantation of 500 saplings per year has to be done	3500 nos. of saplings has been planted	
8g	Survival rate	85 %	75%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling has to be done to control airborne dust	To control airborne dust 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	AR 2016-17 and MRs are being submitted 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	Shri Krishan Kant, Manager and Mining Engineer, Shri Naresh	Presently, Shri Sanjay Kumar Sahu, B.E. (Mining) is Mining Engineer and	

	Manager	Kumar Nirmalkar, Geologist	Manager, w.e.f.9.9.2017	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under workings -3.6 ha, Waste disposal – 0.16 ha, other purpose – 1.1 ha	Area under workings - 3.6 ha, Waste disposal – 0.16 ha, other purpose – 1.1 ha	
9d	Scrutiny of Annual return on afforestation	Planted 3500 saplings	Planted 3500 saplings	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Waste/OB Generation – 32929 t	Waste/OB Generation – 32929 t	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Closing stock: 69783.850 t	ROM Closing stock: 69783.850 t	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: 0.0 Ex-mine price – Rs 1500 per tonne	Sale Value: 0.0 Ex-mine price – Rs 1500 per tonne	Being captive mine, Ex-mine price is same as cost of production
9i	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs 35267659	Value of fixed assets: Rs 35267659	
9k	Scrutiny of Annual return on mining machineries	Front end Loader-2, Tipper-2, Jeep Tractor -1, Water tanker - 1, Electric Motor-1	Front end Loader-2, Tipper-2, Jeep Tractor -1, Water tanker - 1, Electric Motor-1	

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) has been pointed out to the lessee.

(J.S. Hada)
Assistant Mining Geologist