

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	S. Kartikeya, Jr. Mining Geologist, Indian Bureau of Mines, Raipur
2	Accompany with Mine Officials	Shri Tembe Prasanna Kumar, President (Mines) and Agent (Mines) Shri Santosh Kumar Singh, Manager (Mines)
3	Date of inspection	13/11/2019
4	Name of the Mine	Laindongri Iron Ore Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	14.40 Ha. Forest: 9.50 Ha. Non-Forest: 4.90 Ha. Total Lease Area: 14.40 Ha.
6	Mine Code	30CHG08006
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 Limited F-8, MIDC Industrial Area, Hingna Road, Nagpur, District Nagpur (Maharashtra) – 440 016 Phone: 07104- 237276 / 237471 / 237472 / 236251 Fax: 07104- 237583 / 236255 Email: spd.mines@necoindia.com / contact@necoindia.com
9	Village	Barbaspur
10	Taluka / Mandal / District	Tehsil: Bhanupratappur, District: Kanker
11	State	Chhattisgarh
12	Post office & PIN	Hatkarra, Pin Code: 494670
13	Nearest police station	Korar
14	Nearest Railway station	Bhanupratppur
15	Date of Grant of Mining Lease	16/10/2014 to 15/10/2044 (30 years)
16	Date of Execution	16/10/2014
17	Date of opening of Mine	24/12/2014
18	Date of first Renewal, if applicable and its period & expiry	Not applicable. As per section 8A of MMDR Amendment Act, 2015, Lease period has been extended for 50 years. Supplementary Lease Agreement for extended period has not been made.
19	Date of second Renewal, if applicable and its period & expiry	Not Applicable
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Megh Pal Singh, COO & Executive Director M/s Jayaswal Neco Industries Limited F-8, MIDC Industrial Area, Hingna Road, Nagpur, District Nagpur (Maharashtra) – 440 016 Phone: 07104- 237276 / 237471 / 237472 / 236251 Fax: 07104- 237583 / 236255 Email: meghpal.singh@necoindia.com Date of Appointment: 22/12/2014

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22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Tembe Prasanna Kumar, President (Mines) M/s Jayaswal Neco Industries Limited Dalli-Bhanupratappur Road, At Post: Bhanupratappur, Tehsil: Bhanupratappur, District: Kanker (Chhattisgarh) - 4940669 Phone: (0) 9109119092 Email: tembe.prasanna@necoindia.com Date of Appointment: 22/03/2017
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Santosh Kumar Singh M/s Jayaswal Neco Industries Limited Dalli-Bhanupratappur Road, At Post: Bhanupratappur, Tehsil: Bhanupratappur, District: Kanker (Chhattisgarh) - 4940669 Phone: (0) 9109118924 Email: mines.bhanupratappur@necoindia.com Date of Appointment: 02/07/2018
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Santosh Kumar Singh Qualification: B.E. (Mining) Experience: +27 Years M/s Jayaswal Neco Industries Limited Dalli-Bhanupratappur Road, At Post: Bhanupratappur, Tehsil: Bhanupratappur, District: Kanker (Chhattisgarh) - 4940669 Phone: (0) 9109118924 Email: mines.bhanupratappur@necoindia.com Date of Appointment: 02/07/2018
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes, Appointed. Shri Naresh Nirmalkar Qualification: M.Sc. (Geology) Experience: +14 Years M/s Jayaswal Neco Industries Limited Dalli-Bhanupratappur Road, At Post: Bhanupratappur, Tehsil: Bhanupratappur, District: Kanker (Chhattisgarh) - 4940669 Phone: (0) 9109118927 Email: naresh.nirmalkar@necoindia.com Date of Appointment: 24/03/2017
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no.KNK/FE/MPLN-1027/NGP Nagpur dated 11/06/2009 Proposal Period: 2014-15 to 2018-19 Modified Mining Plan approved vide letter no. KNK/FE/MPLN-1027/NGP/2015 Nagpur dated 06/05/2016 Proposal Period: 2015-16 to 2018-19 Final Mine Closure Plan approved vide letter no. KNK/FE/FMCP-1200/2018 Raipur dated 03/05/2019 Proposal Period: 2019-20 to 2020-21
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Not applicable
28	Mineral(s) granted in lease and proved for mining	Iron Ore

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29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Category 'A' Fully Mechanised
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	Iron Ore 0.180 Million Tonnes Per Annum obtained from State Level Environment Impact Assessment Authority Chhattisgarh, Ministry of Environment, Forest, and Climate Change, Government of India, Naya Raipur vide letter no. 1187/SEIAACG/IRON ORE/KANKER/2060 Naya Raipur dated 20/12/2016
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 26,59,800/- vide BG. No. 0713619BG0000060 dated 03/05/2019 Validity: 03/05/2019 to 31/03/2021

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

1.0 Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration has been proposed in the approved Final Mine Closure Plan during F.Y. 2019-20 to 2020-21	Not applicable	-
1b	Exploration over lease area for Geological axis 1 or 2.	-do-	-do-	The entire lease area has been explored under G1 level during previous plan period.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	-do-	-do-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	-do-	-do-	-
1e	Balance reserves as on 01.04.2019 (in Million Tonnes)	Under (222): 0.016143 Million Tonnes	Under (222): 0.016143 Million Tonnes	-
1f	General remarks of inspecting officer on geology, exploration etc.	Closing Stock as on 31/03/2019 Below 55% Fe: 11834.00 Metric Tonnes Above 55 to Below 58% Fe: 23.00 Metric Tonnes Above 60% to Below 62% Fe: 30.00 Metric Tonnes		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	No excavation has been proposed in the approved Final Mine Closure	Various small pits have been observed within lease area for mineral/ore production of float	Occurrence of ore/mineral has been observed

		Plan.	ore as well as in-situ ore.	in small pockets
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	No excavation has been proposed during the period of Final Mine Closure Plan.	-do-	-
2c	Stripping ratio or ore to OB ratio	-do-	Not applicable.	-
2d	Quantity of topsoil generation in m3	No topsoil will be generated during Final Mine Closure Plan.	Not applicable.	
2e	Quantity of overburden generation in m3	90 Metric Tonnes of waste will be generated during screening of earlier produced ROM.	Screening is being done and generated waste has been utilised for ground restoration.	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	NIL		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	No excavation has been proposed during the period of Final Mine Closure Plan.	Various small pits have been observed within lease area for mineral/ore production of float ore as well as in-situ ore.	-
3b	Quantity of ROM mineral production proposed	-do-	Not applicable	-
3c	Recovery of salable/usable mineral from ROM production	-do-	Not applicable	-
3d	Quantity of mineral reject generation	-do-	Not applicable	-
3e	Grade of mineral reject generation and threshold value declared	-do-	Not applicable	-
3f	Quantity of sub-grade mineral generation	-do-	Not applicable	-
3g	Grade of sub-grade mineral generation	-do-	Not applicable	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Screening has been proposed to screening of earlier produced ROM	Being done as per proposal.	-

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3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study has been proposed in the mine during the period of Final Mine Closure Plan.	Not applicable.	-
3j	Provision of drilling & blasting in mineral benches	No drilling and blasting have been proposed in the approved document during the period of Final Mine Closure Plan.	No drilled and blasting is being done.	-
3k	Provision of mining machineries in mineral benches	<ol style="list-style-type: none"> 1. Excavator 03 no. with 1.0 CuM bucket capacity. 2. Rock breaker 01 no. 3. Hyva/Dumpers 06 nos. 4. Truck mounted water tanker 01 no with 10000 liters capacity. 5. Pay loader (tyre mounted) 01no. 6. Ripper dozer 01 no. 7. Crusher 01 no. with 150 Tonnes Per Hour capacity 8. Ambulance 01 no. 	<ol style="list-style-type: none"> 1. Excavator 03 no. with 1.0 CuM bucket capacity. 2. Rock breaker 01 no. 3. Hyva/Dumpers 06 nos. 4. Truck mounted water tanker 01 no with 10000 liters capacity. 5. Pay loader (tyre mounted) 01no. 6. Ripper dozer 01 no. 7. Crusher 01 no. with 150 Tonnes Per Hour capacity 8. Ambulance 01 no. 	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No excavation has been proposed during the period of Final Mine Closure Plan.	Not applicable.	-
3m	Total area covered under excavation/pits	6.370 Ha. up to end of the period of Final Mine Closure Plan.	6.370 Ha. up to end of F.Y. 2018-19.	Area covered under excavation /pits has been obtained from the approved FMCP.

3n	Ore to OB ratio for the pit/mine during the year	Stripping ratio is not mentioned in the approved FMCP.	Not applicable.	No mining/excavation has been proposed during FMCP
3o	Total area put in use under different heads at the end of year	Pit- 6.370 Ha. Waste/reject- 1.110 Ha. Others- 1.386 Ha.	Pit- 6.370 Ha. Waste/reject- 1.110 Ha. Others- 1.386 Ha.	Area covered under different heads has been obtained from the approved FMCP.
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2014-15: 60000.000 Metric Tonnes Yr- 2015-16: 162000.000 Metric Tonnes Yr- 2016-17: 180000.000 Metric Tonnes Yr- 2017-18: 162000.000 Metric Tonnes Yr- 2018-19: 162000.00 Metric Tonnes	Yr- 2014-15: 59700.000 Metric Tonnes Yr- 2015-16: 59663.850 Metric Tonnes Yr- 2016-17: 93650.000 Metric Tonnes Yr- 2017-18: 113280.000 Metric Tonnes Yr- 2018-19: 9568.000 Metric Tonnes	-
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 36, 37)	Proposal has been given in the approved FMCP for separate dumping of screen reject/Mineral reject and waste in the earmarked location within lease area and the earlier mined out area.	Being done as per proposal.	-
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	In between UTM co-ordinates Mineral: N2241635 to N2241695 and	In between UTM co-ordinates Mineral: N2241635 to N2241695 and E522785 to	Average grade of the fine is below the threshold

		E522785 to E522865 Waste: (1) N2241620 to N2241695 and E522630 to E522732 (2) N2241695 to N2241730 and E522600 to E522647 Mineral Reject (Fines): (1) N2241575 to N2241625 and E522662 to E522690 (2) N2241680 to N2241713 and E522705 to E522745 (3) N2241718 to N2241750 and E522637 to E522670	E522865 Waste: (1) N2241620 to N2241695 and E522630 to E522732 (2) N2241695 to N2241730 and E522600 to E522647 Mineral Reject (Fines): (1) N2241575 to N2241625 and E522662 to E522690 (2) N2241680 to N2241713 and E522705 to E522745 (3) N2241718 to N2241750 and E522637 to E522670	value of iron ore, hence this may be considered as waste.
4c	Number of dumps within lease area and outside lease area	Mineral: 01 no. Waste: 02 nos. Mineral Reject (Fines): 03 nos.	Mineral: 01 no. Waste: 02 nos. Mineral Reject (Fines): 03 nos.	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	No excavation has been proposed during the period of Final Mine Closure Plan.	Not applicable.	-
4e	Number of active & alive dumps	No active and alive dumps are proposed in the approved FMCP.	Not applicable	-
4f	Number of dead dumps	05 nos.	05 nos.	-
4g	Number of dumps stabilised	05 nos.	05 nos.	All are under stabilization.
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal has not been given in the approved document for construction of garland drain and retaining wall along waste dumps.	Garland drain and retaining wall have already been constructed along existing waste dumps. The present protective measures taken around waste dumps are insufficient to prevent the escaping of the waste	Deviation has been pointed out.

			material.	
4i	Length of Retaining wall or garland drain all along dump	Not mentioned in the approved FMCP.	Not applicable	-
4j	Number of settling ponds	-do-	-do	-
4k	Specific comments of inspecting officer	The existing protective measures taken around waste dumps are insufficient and it has been found that the waste material was escaping and washing away from the dumps and was contaminating the nearby area. A proper protective measure should be taken to prevent the escape of the material from the existing waste dumps.		

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	No excavation has been proposed during the period of Final Mine Closure Plan.	Mineable quantity of the mineral has already been mined out during earlier plan period.	-
5b	Area under backfilling of mined out area	In-between UTM co-ordinates N2241497 to N2241548 and E522820 to E522885 Area: 0.105 Ha.	Backfilling has been done in-between UTM co-ordinates N2241497 to N2241548 and E522820 to E522885 Area: 0.105 Ha.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No topsoil will be generated during FMCP period.	Not applicable.	
5d	Total area fully reclaimed & rehabilitated	8.866 Ha. up to end of FMCP period.	Reclamation and rehabilitation is under progress.	-
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 23. Details should be given in the format as given in Annexure-20.	Submitted before due date.	Cross verified during inspection and found as per proposal.	-

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	F.Y. (2019-20) 8.866 Ha. - 10600 nos. 10600 nos. By plantation Not mentioned in the approved FMCP	8.866 Ha. 10524 nos. 10524 nos. By plantation No record has been maintained.	Reclamation and rehabilitation is still on progress.
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	No void areas are present within lease area.	Not applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	8.866 Ha. 0.105 Ha. By plantation.	8.866 Ha. 0.105 Ha. By plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular Environmental Monitoring as per MoEF Guidelines.	Being done as per proposal.	All the parameters are within the prescribed limit.
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	Mechanised screening of earlier produced ROM has been proposed in the approved document.	Mechanised screening of earlier produced ROM is being done.	-

7b	Method of grade-wise mineral sorting i.e. manual or mechanical	-do-	-do-	-
7c	Different grade of mineral sorted out at mines	Mechanised screening of earlier produced ROM has been proposed in the approved document.	+10 mm size ore are being recovered from the earlier produced ROM through mechanised screening.	-
7d	Any beneficiation process at mines	No beneficiation study has been proposed in the approved FMCP.	Not applicable.	-
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 36)	No topsoil will be produced during FMCP period.	Not applicable.	-
8b	Concurrent use or storage of topsoil	-do-	-do-	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumping of screen reject/waste rock is proposed in the approved document.	Separate dumping is being done as per proposal.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposal has been given in the approved document for ground restoration through waste rock.	Being done as per proposal.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation and rehabilitation has been proposed in the Final Mine Closure Plan by backfilling and plantation.	Being done as per proposal.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	F.Y. 2019-20: 10600 nos. of saplings will be planted over the backfilled area.	10524 nos. of sapling are planted within lease area.	-
8g	Survival rate	Not mentioned in the approved document.	Approx 70%	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling through truck/tractor mounted/attached water sprinkler has been proposed in the approved document.	Being done as per proposal.	-

8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	NIL
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9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – November 2019 A.R. submitted upto- F.Y. 2018-19	NIL

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	Mining Engineer: Shri Snatosh Kumar Singh Geologist: Shri Naesh Kumar Nirmalkar Manager: Shri Santosh Kumar Singh	Mining Engineer: Shri Snatosh Kumar Singh Geologist: Shri Naesh Kumar Nirmalkar Manager: Shri Santosh Kumar Singh	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 6.370 Ha. Waste/reject- 1.110 Ha. Others- 1.40 Ha.	Pit- 6.370 Ha. Waste/reject- 1.110 Ha. Others- 1.386 Ha.	-
9d	Scrutiny of Annual return on Afforestation	3000 nos. with 60% survival rate.	3000 nos. with 60% survival rate.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral reject: Not mentioned Grade: Not Given	Mineral reject: Not mentioned Grade: Not Given	No mineral is present in the mine.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock: ROM: 900.520 Metric Tonnes Graded Ore: 11889.24 Metric Tonnes As on 01/04/2019	Closing Stock: ROM: NIL Metric Tonnes Graded Ore: 2753.152 Metric Tonnes As on 30/11/2019	Updated closing stock has been obtained from the monthly returns from the month of November 2019
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: NIL Ex-Mine Price: Rs. 950.00 Per Metric Tonne Cost of Production: Rs. 950.00 Per Metric Tonne	Sale Value: NIL Ex-Mine Price: Rs. 950.00 Per Metric Tonne Cost of Production: Rs. 950.00 Per Metric Tonne	-

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9i	Scrutiny of Annual return on fixed assets	Rs. 35267659.00	Rs. 35267659.00	-
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns.	Cross verified from the log books.	-

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

No outstanding violations have been found.

Date of Last Inspection, Name and Designation of the Inspecting Officer:

Shri Rajesh Kumar Das, Sr. Asstt. Controller of Mines, Date of Inspection: 08/04/2019

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
Rule 37(2)	The existing protective measures taken around Waste and Reject Dumps are insufficient and it has been found that the waste materials were escaping and was washing away from the dumps and was contaminating the nearby drainage system. A proper protective measure should be taken to prevent the escape of the material from the existing dumps.

(Name of the Inspecting Officer and Designation and Date)

Shaival Kartikeya
Jr. Mining Geologist
Indian Bureau of Mines, Raipur
Date of Inspection: 13/11/2019