

# 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	Date of inspection	15/03/2019
3	Name of the Mine	Metabodeli Iron Ore Mine MCDR File No. CHG/KNK/Fe-1/RPR
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: 25.00 Ha. Non-Forest: 25.00 Ha. Total Lease Area: 25.00 Ha.
5	Mine Code	30CHG08001
6	IBM Registration Number under rule 45 of MCDR, 1988	4800/2011
7	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
8	Village	Metabodeli, near village Chargaon
8	Taluka / Mandal / District	Tehsil: Pakhanjur, District: Kanker
10	State	Chhattisgarh
11	Post office & PIN	Chargaon, Pin Code: 494 665
12	Nearest police station	Siksod
13	Nearest Railway station	Bhanupratappur
14	Date of Grant of Mining Lease	17/01/2002 to 16/01/2022 (20 years)
15	Date of Execution	17/01/2002
16	Date of opening of Mine	05/08/2002
17	Date of first Renewal, if applicable and its period & expiry	As per section 8A of MMDR Amendment Act, 2015, lease period has been extended for subsequent 30 years. i.e. 17/01/2022 to 16/01/2052 (30 years). Supplementary lease agreement has been made for extended period.
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	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: 17/11/2014

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri T. 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
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Krishan Kant M/s Jayaswal Neco Industries Limited Dalli-Bhanupratappur Road, At Post: Bhanupratappur, Tehsil: Bhanupratappur, District: Kanker (Chhattisgarh) - 4940669 Phone: (0) 9109118939 Email: mines.bhanupratappur@necoindia.com Date of Appointment: 02/07/2018
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri. Vinod Kumar Thakur Qualification: B.E. (Mining) Experience: +10 Years M/s Jayaswal Neco Industries Limited Dalli-Bhanupratappur Road, At Post: Bhanupratappur, Tehsil: Bhanupratappur, District: Kanker (Chhattisgarh) - 4940669 Phone: (0) 9109118925 Email: mines.bhanupratappur@necoindia.com Date of Appointment: 12/09/2018
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes, Appointed. Shri Lokesh Kumar Sahu Qualification: M. Tech. (Applied Geology) Experience: +10 Years M/s Jayaswal Neco Industries Limited Dalli-Bhanupratappur Road, At Post: Bhanupratappur, Tehsil: Bhanupratappur, District: Kanker (Chhattisgarh) - 4940669 Phone: (0) 9109118930 Email: lokesh.sahu@necoindia.com Date of Appointment: 24/03/2017
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<b>Mining Plan</b> Approved vide letter no. BST/Fe/MPLN-465/NGP Nagpur dated 02/04/1996 Proposal Period: 2002-03 to 2006-07 <b>Modified Mining Plan</b> Approved vide letter no. BST/Fe/MPLN-465/NGP/2016/41 Raipur dated 24/08/2016 Proposal Period: 2017-18 to 2021-22 <b>Modified Mining Plan</b> Approved vide letter no. KNK/Fe/MPLN-1149/2018 Raipur dated 23/05/2018 Proposal Period: 2018-19 to 2021-22
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	<b>1st Scheme of Mining</b> approved vide letter no. BST/Fe/MPLN-465/NGP Nagpur dated 24/11/2008 Proposal Period: 2007-08 to 2011-12 <b>2nd Scheme of Mining</b> approved vide letter no. BST/Fe/MPLN-465/NGP Nagpur dated 27/06/2013 Proposal Period: 2012-13 to 2016-17

27	Mineral(s) granted in lease and proved for mining	Iron Ore (Hematite)
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Category 'A Fully Mechanised'
30	Captive/Non Captive	Captive
31	Existing EC Limit and validity	<p>Iron Ore Mining of 1.0 Million Tonnes Per Annum obtained from State Level Environment Impact Assessment Authority, Ministry of Environment, Forest and Climate Change, Government of India, Naya Raipur (Chhattisgarh) vide letter no. 64/SEIAACG/Mine/Kanker/557 Naya Raipur dated 17/04/</p> <p>Mining of Iron Ore of 1.0 Million Tonnes Per Annum under Grant of Consent under section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 obtained from Regional Office of Chhattisgarh Environment Conservation Board, Jagdalpur vide letter no. 155/RO/TS/CECB/2017 Jagdalpur dated 04/05/2017.</p> <p>Mining of Iron Ore of 1.0 Million Tonnes Per Annum under Grant of Consent under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 obtained from Regional Office of Chhattisgarh Environment Conservation Board, Jagdalpur vide letter no. 156/RO/TS/CECB/2017 Jagdalpur dated 04/05/2017.</p>
32	Status of Financial Assurance	<p>Total Rs. 42,84,600/- In the form of Bank Guarantee submitted.</p> <p>BG No. 32320IGL0005716 Amount Rs. 3,57,500/- valid up to 04/08/2021</p> <p>BG No. 32320IGL0002117 Amount Rs. 39,27,100/- valid up to 04/08/2022</p>

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	<b>2018-19:</b> 10 nos. of borehole with cumulative depth of 500 meters	None of the boreholes have been drilled.	Deviation has been pointed out.
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category: 25.00 Ha	Under G1 Category: 10.0671 Ha Under G2 category: 2.0543 Ha Under G3 category: 6.8515 Ha	-

1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not mentioned in the approved document.	No exploration has been carried out during 2017-18 and 2018-19	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Under G1 Category: 25.00 Ha	Under G1 Category: 10.0671 Ha Under G2 category: 2.0543 Ha Under G3 category: 6.8515 Ha	-
1e	Balance reserves as on 01.04.2019 (in Million Tonnes)	Under (111): 6.389 Million Tonnes Under (122): 1.108 Million Tonnes Under (211): 3.015 Million Tonnes Under (222): 4.611 Million Tonnes Under (333): 2.389 Million Tonnes	Under (111): 6.389 Million Tonnes Under (122): 1.108 Million Tonnes Under (211): 3.015 Million Tonnes Under (222): 4.611 Million Tonnes Under (333): 2.389 Million Tonnes	ROM Production has been calculated from the submitted monthly returns.
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 (Range in UTM/Local Coordinate/Plot No./Location)	<p><b>2017-18:</b> In-between UTM coordinates N2215900 to N2216700 and E497500 to E498300 in diagonal shape along boundary pillar no. A and D.</p> <p><b>2018-19:</b> In-between UTM coordinates N2215900 to N2216700 and E497500 to E498300 in diagonal shape</p>	<p><b>2017-18:</b> In addition to the proposed area, at one place the quarry has been extended up to approx 80 to 90 meters towards north-west direction of the lease area near borehole no. 10.</p> <p><b>2018-19:</b> in addition to the proposed area, in most of the places the quarry has been extended up to approx 20 to 30 meters towards north-west direction</p>	Deviation has been pointed out.

		along boundary pillar no. A and D	as well as approx 300 meters along mining lease boundary in south west side of the lease area.	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Formation of separate benches of topsoil/OB and mineral has been proposed. <b>Topsoil/OB:</b> 01 no. <b>Mineral:</b> 08 nos.	Formation of separate benches of topsoil/OB and mineral has been proposed. <b>Topsoil/OB:</b> 01 no. <b>Mineral:</b> 08 nos.	Negligible quantity of topsoil present in the lease area. Same has been utilised for plantation purpose.
2c	Stripping ratio or ore to OB ratio	<b>2017-18:</b> 1:0.0 <b>2018-19:</b> 1:0.0	<b>2017-18:</b> 1:0.0 <b>2018-19:</b> 1:0.0	The entire excavated material has been utilised. Development has been proposed in the mineralised zone.
2d	Quantity of topsoil generation in m3	No topsoil present in the lease area.	Not applicable.	Negligible quantity of topsoil present in the lease area. Same has been utilised for plantation purpose.
2e	Quantity of overburden generation in m3	<b>2017-18:</b> NIL <b>2018-19:</b> NIL	<b>2017-18:</b> NIL <b>2018-19:</b> NIL	
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	01 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	<b>2017-18:</b> 9,10,476.00 Metric Tonnes	<b>2017-18:</b> 5,92,511.00 Metric Tonnes	-

		<b>2018-19:</b> 9,31,472.00 Metric Tonnes	<b>2018-19:</b> 9,31,371.00 Metric Tonnes	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No mineral reject present in the lease area. The entire generated ore/mineral will be consumed.	105690.00 Metric Tonnes	-
3e	Grade of mineral reject generation and threshold value declared	Not given in the approved document.	52 to 55 % Fe.	-
3f	Quantity of sub-grade mineral generation	<b>2017-18:</b> 91,049.00 Metric Tonnes <b>2018-19:</b> 2,32,868.00 Metric Tonnes	In record has been maintained. The entire generated sub-grade has been consumed for blending.	-
3g	Grade of sub-grade mineral generation	Not mentioned in the approved document.	Not applicable as the entire quantity of generated sub-grade ore has been consumed after blending. Below 55% Fe.	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Crushing and Screening.	Mechanised Crushing and Screening.	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed in the approved document.	Not applicable.	-
3j	Provision of drilling & blasting in mineral benches	Spacing: 3.0 m Burden: 2.4 m Depth: 6.0 m	Spacing: 3.0 m Burden: 2.4 m Depth: 6.0 m	-
3k	Provision of mining machineries in mineral benches	<ol style="list-style-type: none"> <li>1. 02 nos. of Wagon drill operated by compressor, Capacity 100 dia.</li> <li>2. 02 nos. of portable air compressor, Capacity 400 CFM</li> <li>3. 09 nos. of Excavators with 2.6 cum bucket.</li> </ol>	<ol style="list-style-type: none"> <li>1. 02 nos. of Wagon drill operated by compressor, Capacity 100 dia.</li> <li>2. 02 nos. of portable air compressor, Capacity 400 CFM</li> <li>3. 09 nos. of Excavators with 2.6 cum bucket.</li> <li>4. 01 no Rock Breaker</li> <li>5. 17 nos. of</li> </ol>	-

		<p>4. 01 no Rock Breaker</p> <p>5. 17 nos. of Hyva/Dumpers.</p> <p>6. 01 no of Truck mounted water sprinkler, Capacity 10 KL</p> <p>7. 04 nos Pay loaders</p> <p>8. 01 no. Ripper Dozer.</p> <p>9. 01 no. Ambulance.</p> <p>10.02 nos. Water Pumps, Capacity 5.00 HP</p> <p>11.02 nos. Double Decker Power Screen, Capacity 250 TPH</p> <p>12.03 nos. Crusher with screen, 150 TPH</p>	<p>Hyva/Dumpers.</p> <p>6. 01 no of Truck mounted water sprinkler, Capacity 10 KL</p> <p>7. 04 nos Pay loaders</p> <p>8. 01 no. Ripper Dozer.</p> <p>9. 01 no. Ambulance.</p> <p>10.02 nos. Water Pumps, Capacity 5.00 HP</p> <p>11.02 nos. Double Decker Power Screen, Capacity 250 TPH</p> <p>12. 03 nos. Crusher with screen, 150 TPH</p>	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	<p><b>Topsoil/OB:</b> 0.5m to 1.0 m</p> <p><b>Mineral/Ore:</b> 6.0 – 8.0 m</p>	<p><b>Topsoil/OB:</b> 0.5m to 1.0 m</p> <p><b>Mineral/Ore:</b> 6.0 – 8.0 m</p>	-
3m	Total area covered under excavation/pits	10.888 Ha. up to end of plan period.	4.687 Ha. up to end of F.Y. 2017-18	-
3n	Ore to OB ratio for the pit/mine during the year	1: 0.0	1: 0.0`	-
3o	Total area put in use under different heads at the end of year	<p><b>Pit-</b> 10.888 Ha.</p> <p><b>Waste/reject-</b> 1.413 Ha</p> <p><b>Others-</b> 1.981 Ha.</p> <p>Up to end of plan period.</p>	<p><b>Pit-</b> 10.888 Ha.</p> <p><b>Waste/reject-</b> 1.5 Ha</p> <p><b>Others-</b> 1.064 Ha.</p> <p>Up to end of F.Y. 2017-18</p>	-
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	<p><b>Yr- 2013-14:</b> 81900.00 Metric Tonnes</p> <p><b>Yr- 2014-15:</b> 45002.00 Metric Tonnes</p>	<p><b>Yr- 2013-14:</b> NIL Metric Tonnes</p> <p><b>Yr- 2014-15:</b> 45002.00 Metric Tonnes</p> <p><b>Yr- 2015-16:</b></p>	-

		<b>Yr- 2015-16:</b> 224000.00 Metric Tonnes <b>Yr- 2016-17:</b> 224000.00 Metric Tonnes <b>Yr- 2017-18:</b> 910476.00 Metric Tonnes <b>Yr- 2018-19:</b> 931472.00 Metric Tonnes	49010.00 Metric Tonnes <b>Yr- 2016-17:</b> 49950.00 Metric Tonnes <b>Yr- 2017-18:</b> 592511.00 Metric Tonnes <b>Yr- 2018-19:</b> 931371.00 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)	Separate dumping of topsoil/OB and Mineral reject has been proposed in the approved document.	a certain quantity of Sub-grade Mineral and Mineral Reject have been kept in different places in irregular and scattered manner.	Deviation has been pointed out.
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	<b>OB/Waste:</b> N2216530 to N2216580 and E498020 to E498100 <b>Mineral &amp; Sub-grade:</b> N2216480 to N2216700 and E498140 to E498280	<b>OB/Waste:</b> N2216530 to N2216580 and E498020 to E498100 <b>Mineral &amp; Sub-grade:</b> N2216480 to N2216700 and E498140 to E498280	-
4c	Number of dumps within lease area and outside lease area	Waste Dump: 01 no. within lease area.	Waste Dump: 01 no. within lease area.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	Being done as per proposal.	-
4e	Number of active & alive dumps	01 no.	01 no.	-
4f	Number of dead dumps	No dead dump proposed in the approved document.	Not Applicable.	-
4g	Number of dumps stabilised	Not proposed in the approved document.	Not applicable.	-
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal has been given for construction of	Constructed around waste dump.	-



		retaining wall and garland drain along waste dump in the approved document.		
4i	Length of Retaining wall or garland drain all along dump	Not mentioned in the approved document.	Approx 300 meters of garland drain has been constructed.	-
4j	Number of settling ponds	Proposal has been given for settling ponds.	Few have been constructed in combination with garland drain.	-
4k	Specific comments of inspecting officer	<p>In the approved Modified Mining Plan, there was a proposal given for stacking of Sub-grade Mineral in between UTM co-ordinates N2216500 to N2216700 and E498100 to E498300 whereas, in addition to the proposed area, a certain quantity of Sub-grade Mineral and Mineral Reject have been kept in different places in irregular and scattered manner. E.g. in between UTM Co-ordinates N2216100 to N2216300 and E497900 to E498100 and N22165500 to N2216700 and E497900 to 498100 without any proposal.</p> <p>A certain quantity of iron ore fines has been dumped over the existing waste dump in between UTM Co-ordinates N2216100 to N2216300 and E497900 to E498100. Deviation has been pointed out.</p>		

### **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	Full extraction of mineral from mined out area before starting backfilling before conceptual stage.	Not applicable as the mineral has not been mined out completely and the mines has not achieved conceptual stage.	-
5b	Area under backfilling of mined out area	Proposal has not been given in the approved document, as the area has not been matured for backfilling.	Not applicable.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No topsoil present in the area.	Negligible quality of topsoil present in the lease area and same has been utilised for plantation.	-
5d	Total area fully reclaimed & rehabilitated	Proposal has not been given in the approved document.	Area not matured for reclamation and rehabilitation.	-
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.	Yes, submitted on time.	NIL	-
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	0.1 Ha.  0.1 Ha. 100 nos.  200 nos.  NIL  Not mentioned in the document.	0.1 Ha.  0.1 Ha 100 nos.  200 nos.  NIL  Not record maintained.	-
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	Proposal has not been given in the approved document.	Not applicable as the area not matured for backfilling.	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Proposal has not been given in the approved document.	Not applicable as the area not matured for reclamation and rehabilitation.	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular monitoring of Ambient Air Quality, Water and Noise Vibration.	Being done as per proposal.	-
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 Crushing Screening and Sorting.	Mechanised Crushing Screening and Sorting.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Grade wise sorting through vibratory screen.	Grade wise sorting through vibratory screen.	-
7c	Different grade of mineral sorted out at mines	55 – 65% Fe	55 – 65% Fe	-
7d	Any beneficiation process at mines	Mechanised Crushing Screening and Sorting.	Mechanised Crushing Screening and Sorting.	-
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)	Proposal has not been given in the approved plan, as no topsoil present in the lease area.	Negligible quantity of topsoil has been generated during development and same has been utilised for plantation purpose.	-
8b	Concurrent use or storage of topsoil	Proposal has not been given in the approved plan, as no topsoil present in the lease area.	Negligible quantity of topsoil has been generated during development and same has been utilised for plantation purpose.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumping of OB/topsoil, Waste rock, rejects and fines have been given in the approved plan at earmarked locations.	A certain quantity of iron ore fines has been dumped over the existing waste dump in between UTM Co-ordinates N2216100 to N2216300 and E497900 to E498100.	Deviation has been pointed out.
8d	Use of overburden, waste rock, rejects and fines	OB and waste rock will be used for	Separate dumps of waste rock has	-

	dumps for restoring the land to its original use	reclamation during conceptual stage.	been made in the earmarked location for future reclamations.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phase restoration through afforestation has been given in the approved plan.	Being done as per proposal.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	100 nos. of sapling will be planted every year.	Approx 100 nos. of sapling has been 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 on roads has been proposed through water tanker.	Being done as per proposal.	-
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	M.R. Submitted upto – April 2019 A.R. submitted upto- F.Y. 2017-18	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	<b>Mining Engineer:</b> Shri Santosh Kumar Singh <b>Geologist:</b> Shri Lokesh Kumar Sahu. <b>Manager:</b> Shri Santosh Kumar Singh.	<b>Mining Engineer:</b> Shri Santosh Kumar Singh <b>Geologist:</b> Shri Lokesh Kumar Sahu. <b>Manager:</b> Shri Krishna Kant.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<b>Pit-</b> 10.888 Ha. <b>Waste/reject-</b> 1.413 Ha <b>Others-</b> 1.981 Ha. Up to end of plan period.	<b>Pit-</b> 10.888 Ha. <b>Waste/reject-</b> 1.5 Ha <b>Others-</b> 1.064 Ha. Up to end of F.Y. 2017-18	NIL
9d	Scrutiny of Annual return on afforestation	3000 nos. planted within lease area during F.Y. 2017-18	Approx 100 nos. has been planted during F.Y 2017-18	NIL

9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	105690.00 Metric Tonnes of mineral reject generated during F.Y. 2017-18 Grade: 52-55% Fe	The mentioned quantity is mineral reject. The mentioned quantity and quality may be sub-grade ore as it has been blended with high grade ore and later on dispatched to the plant.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	<b>ROM Closing Stock:</b> 26357.055 Metric Tonnes <b>Graded Ore Closing Stock:</b> 134552.48 Metric Tonnes.	<b>ROM Closing Stock:</b> 26357.055 Metric Tonnes <b>Graded Ore Closing Stock:</b> 134552.48 Metric Tonnes.	Quantity of closing stock has been obtained from the monthly returns for the month of March 2019.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	<b>Sale Value:</b> Rs. 0.0 (Captive Use) <b>Ex-mine Price:</b> <u>Lumps:</u> 60 to below 62%: Rs. 1668.00 PMT 62 to below 65%: Rs. 1439.00 PMT <u>Fines:</u> Below 55%: Rs. 1109.00 PMT 55 to below 58%: Rs. 1414.00 PMT 60 to below 62%: Rs. 1327.00 PMT <b>Production Cost:</b> Rs. 1365.00 Per Metric Tonne	<b>Sale Value:</b> Rs. 0.0 (Captive Use) <b>Ex-mine Price:</b> Incorrect price has been given in the returns, as the entire ore/mineral has been utilised for captive purpose. <b>Production Cost:</b> Rs. 1365.00 Per Metric Tonne	Deviation for different ex-mine price has been pointed out.
9i	Scrutiny of Annual return on fixed assets	Rs. 44949320.00	Rs. 44949320.00	NIL
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns.	As per proposal.	NIL

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

No Outstanding violation. No Serious violation has been observed during previous inspection.

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

Shri Rudra Narayan Mishra, Senior Mining Geologist, Date of inspection 19/04/2018.

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
<b>Rule 11(1)</b>	<p>(i) The following deviations have been found in the mine from the approved Modified Mining Plan vide BSTR/FE/MPLN-465/2016/41-Raipur dated 24/08/2016 for the period of 2017-18 to 2021-22:</p> <p><b>Exploration/Borehole:</b> During 2018-19; it was proposed to carryout 10 nos of Core Boreholes up to a cumulative depth of 500 meters; whereas, NIL boreholes have been drilled.</p> <p><b>Development:</b> In the approved Modified Mining Plan, there was a proposal given for the production and development during the year 2017-18 in-between UTM coordinates N2215900 to N2216700 and E497500 to E498300 in diagonal shape along boundary pillar no. A and D. Whereas, in addition to the proposed area, at one place the quarry has been extended upto approx 80 to 90 meters towards north-west direction of the lease area near borehole no. 10.</p> <p>(ii) The following deviations have been found in the mine from the approved Modified Mining Plan vide KNK/FE/MPLN-1149/2018-Raipur dated 23/05/2018 for the period of 2018-19 to 2021-22:</p> <p><b>Development:</b> In the approved Modified Mining Plan, there was a proposal given for the production and development during the year 2017-18 in-between UTM coordinates N2215900 to N2216700 and E497500 to E498300 in diagonal shape along boundary pillar no. A and D. Whereas, in addition to the proposed area, in most of the places the quarry has been extended upto approx 20 to 30 meters towards north-west direction as well as approx 300 meters along mining lease boundary in south west side of the lease area.</p> <p><b>Stacking of Mineral, Subgrade Mineral and Mineral Reject:</b> In the approved Modified Mining Plan, there was a proposal given for stacking of Subgrade Mineral in between UTM co-ordinates N2216500 to N2216700 and E498100 to E498300 whereas, in addition to the proposed area, a certain quantity of Subgrade Mineral and Mineral Reject have been kept in different places in irregular and scattered manner. E.g. in between UTM Co-ordinates N2216100 to N2216300 and E497900 to E498100 and N22165500 to N2216700 and E497900 to 498100 without any proposal.</p>
<b>Rule 14 (3)</b>	A certain quantity of iron ore fines has been dumped over the existing waste dump in between UTM Co-ordinates N2216100 to N2216300 and E497900 to E498100.
<b>Rule 33</b>	Updated print copy of the surface geological plan and sections have not been submitted for the year 2017-18.
<b>Rule 45(7)</b>	<p><b>Annual return for F.Y. 2017-18:</b></p> <p>(i) Part VI; Ex-mine price for the different size and grades of iron ore should be similar to the cost of production as computed in Part VII. (For Captive Use)</p> <p>(ii) Part VI: Opening Stock, Production and Closing Stock of ROM are not matching with the Opening Stock, Production and Closing Stock of the Grade Wise Processed Ore.</p>
<b>Rule 45(7)</b>	<p><b>Monthly Returns for April 2018 to February 2019:</b></p> <p>(i) Part II; Ex-mine price for the different size and grades of iron ore should be similar to the cost of production as computed for the respective month. (For Captive Use)</p> <p>(ii) Part Part II: Opening Stock, Production and Closing Stock of ROM are not matching with the Opening Stock, Production and Closing Stock of the Grade Wise Processed Ore.</p>

(Name of the Inspecting Officer and Designation and Date)

**Note:** Validation of Star Ratings has been done during inspection.

Shaival Kartikeya  
Jr. Mining Geologist  
Indian Bureau of Mines, Raipur  
Date of Inspection: 15/03/2019