## MCDR INSPECTION REPORT

## 1.0 GENERAL

SN	Particulars	Details		
1	Name of inspecting office &	Rajesh Das. Sr Assistant Controller of Mines		
	designation	Indian Bureau of Mines, Raipur		
2	Date of inspection	04.12.2020		
3	Name of the Mine	Metabodeli Iron Ore Mine		
4	Total Lease Area (Ha) with breakup of	25.00 Ha in forest land only		
	Non-forest and forest land			
5	Mine Code	30CHG08001		
6	IBM Registration Number under rule 45 of MCDR, 1988	4800/2011		
7	Name of the lessee, Address, phone,	M/s Jayaswal Neco Industries Limited.		
	email and fax number	Siltara Raipur (Chhattisgarh)		
		Phone-07721-264241, 264243		
	7711	email- spd.mines@necoindia.com		
8	Village	Metabodeli, near Chargaon village		
8	Taluka / Mandal / District	Tahsil-Pakhanjure, District-Kanker		
10	State	Chhattisgarh		
11	Post office & PIN	Chargaon, PIN- 494665		
12	Nearest police station	Siksod		
13	Nearest Railway station	Bhanupratappur		
14	Date of Grant of Mining Lease	11.01.2002		
15	Date of Execution	17.01.2002		
16	Date of opening of Mine	05.07.2002		
17	Date of first Renewal, if applicable and	50 Years 17.01.2002 to 16.01.2052. Supplimentary agreement		
18	its period & expiry	for extended lease period up to 16.01.2052 has been executed.		
10	Date of second Renewal, if applicable and its period & expiry	Not Applicable		
19	Date of submission of renewal	Not Applicable		
19	application if Mining Operations are	Not Applicable		
	continuing under deemed extension			
20	Name of the Nominated Owner with	Shri Meghpal Singh, Executive Director, Steel Plant		
	Address, phone, email, fax number and	Division)		
	date of appointment	Address : Siltara Growth Centre, Siltara		
	THE STATE OF THE S	Raipur(Chhattisgarh)-493111		
		Phone-07721-264241.		
		Email: - meghpal.singh@necoindia.com		
		Date of appointment—17.11.2014		
21	Name of the Mine Agent with Address,	Shri T. Prasanna Kumar, President(Mines)		
	phone, email, fax number and date of	of Address: Village-Bhanupratappur Near Santoshi Mandir		
	appointment	on Bhanupratappur Sambalpur road, Tahsil-		
		Bhanupratappur District-Kanker (Chhattisgarh)		
		PIN: 494669.		
		M. No. 9109119092		
		Email: tembe.prasanna@necoindia.com		
		Date of appointment—22.03.2017		
22	Name of the Mines Manager with	Chri Vrighankant Dinlama in Mining & First alog Minas		
22	Name of the Mines Manager with	Shri Krishankant, Diploma in Mining & First class Mines		

date of appointment in mines    Experience: 14+ years
Antagarh -Bhanupratappur Road Tahsil- Bhanupratappur District-Kanker (Chhattisgarh) PIN-494669 M.No9109118939 Email -mines.bhanupratappur@necoindia.com Date of appointment—02.07.2018  Shri Vinod Thakur, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine  Shri Vinod Thakur, Qualification : BE(Mining) Experience : +10years Address: Dalli-Bhanupratappur Road at Bhanupratappur District-Kanker (Chhattisgarh) PIN-494669 Email -mines.bhanupratappur@necoindia.com M-9109118925 Date of appointment—12/09/2018  Shri Lokesh Sahu  Qualification : M Tech. (Applied Geology) Experience +10years  Address: Village- Mulla, near IIT school, Tahsil Bhanupratappur, District-Kanker (Chhattisgarh) PIN 494669 Email -lokesh.sahu@necoindia.com
District-Kanker (Chhattisgarh) PIN-494669 M.No9109118939 Email -mines bhanupratappur@necoindia.com Date of appointment—02.07.2018  Shri Vinod Thakur, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine  Shri Vinod Thakur, Qualification: BE(Mining) Experience: +10years Address: Dalli-Bhanupratappur Road at Bhanupratappur District-Kanker (Chhattisgarh) PIN-494669 Email -mines bhanupratappur@necoindia.com M-9109118925 Date of appointment—12/09/2018  Shri Lokesh Sahu  Qualification: M Tech. (Applied Geology) Experience +10years  Address: Village- Mulla, near IIT school, Tahsil Bhanupratappur, District-Kanker (Chhattisgarh) PIN 494669 Email -lokesh.sahu@necoindia.com
Email -mines.bhanupratappur@necoindia.com
Date of appointment—02.07.2018  Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine  Experience: +10years Address: Dalli-Bhanupratappur Road at Bhanupratappur District-Kanker (Chhattisgarh) PIN-494669 Email -mines.bhanupratappur@necoindia.com M-9109118925 Date of appointment—12/09/2018  Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.  Address: Village- Mulla, near IIT school, Tahsil Bhanupratappur, District-Kanker (Chhattisgarh) PIN 494669 Email -lokesh.sahu@necoindia.com
Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine  23 Shri Vinod Thakur, Qualification: BE(Mining) Experience: +10years Address: Dalli-Bhanupratappur Road at Bhanupratappur District-Kanker (Chhattisgarh) PIN-494669 Email -mines.bhanupratappur@necoindia.com M-9109118925 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.  Address: Village- Mulla, near IIT school, Tahsil Bhanupratappur, District-Kanker (Chhattisgarh) PIN 494669 Email -lokesh.sahu@necoindia.com
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Email -lokesh.sahu@necoindia.com
M-9109118930
25 Date of Approval of Mining Mining Plan was approved by IBM vide letter no
Plan/Modified Mining Plan with five- BST/Fe/MPLN-465/NGP dated 02.04.1996 for years.
year period and specific condition in
approval letter if any 1st scheme of Mining for the period of 2007-08 to 2011-12
was approved by IBM vide letter No BST/Fe/MPLN 465/NGP dated 24.11.2008.
2 <sup>nd</sup> Mining Scheme for production of approximate 2.0
LTPA was approved by IBM vide letter no
BST/Fe/MPLN-465/NGP dated 27.06.2013 for the scheme period 2012-13 to 2016-17.
In compliance of New MMDR Amendment Act 2015
Modified Mining plan along with progressive Mine
closure plan was approved by IBM vide letter no
BST/FE/MPLN-465/NGP/2016/41-Raipur/331 dt.24.08.2016 for period 2017-18 to 2021-22.
dt.24.00.2010 for period 2017-10 to 2021-22.
Again Modified Mining Plan has been approved vide
letter no.Kanker /Lauh/khayo/1149/2018-Raipur /244
dated 23.05.2018 for the period 2018-19 to 2021-22.  Draft Modification of Mining Plan has been submitted to
IBM Raipur Dated
26 Date of Approval of Scheme of NA
20 Date of Approval of Scheme of IVA

	with five-year period and specific condition in approval letter, if any.	
27	Mineral(s) granted in lease and proved for mining	Iron Ore.
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	EC is granted for one Million Ton per annum iron ore production. CECB granted consent for five years which is valid upto 04.05.2023.
32	Status of Financial Assurance	The lessee has submitted Financial Assurance of Rs. 357500/- by way of bank Guarantee No 32320IGL0005716 dated 05.08.2016 which was valid upto 04.08.2021 and lodging period upto 04.08.2022.  Later on as per Rule 27 of MCDR 2017, the financial Assurance for Rs. 4284600/- was to be submitted for A category mines. The additional amount of Rs. 39,27,100/-vide BG no 32320IGL0002117 dated 22.05.2017 has been submitted which is valid up to 04.08.2022.

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

1.0 Exploration

	Explui ation	I		
SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During 2018-19, 10 no of bore hole has been proposed with a grid interval of 50 m up to a maximum 50 m depth each.	Exploration has been completed 2019-20 & 2020-21  17 Nos of Bore Hole has been drilled for covering all ML area for updating mineral reserves	
1b	Exploration over lease area for Geological axis 1 or 2.	0 ,	Broadly the exploration covered in G1 except the non-mineralised area.	Done in the year 2015- 16, 2019-2020 & 2020- 2021
1c	Exploration Agency & Expenditure in lakh	Not mentioned in the approved document.	M/s Jayaswal Neco Industries Limited by Hiring Drilling machine.	

	Rupees during the year		The total Expenditure for drilling operation- Rs 2111600/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	

1e	Balance reserves as on 01.04.2020 (in Million Tonnes)	` /	Under (111) & 122: 6.62 Million Tonnes	
		Under (211): 3.015 Million Tonnes	Under (211): 3.015 Million Tonnes	
		Uner (222): 4.611Million Tonnes	Under (222): 4.611 Million Tonnes	
		Under (333): 2.389 Million Tonnes	Under (333): 2.389 Million Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.		y pocket deposit with some adly explored in 50X50m gr	•

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.	E-497609, to E	Broadly As per	Remarks
24	lease area (Range in UTM/Local	498100 and N	proposal but the	
	Coordinate/Plot No./Location)	2216052 to 2216483	benches area not	
	Coordinate/Flot No./Location)	2210032 to 2210463	maintained as per	
21		NIII	proposal.	
2b	Separate benches in topsoil,	NIL	Not Applicable	
	overburden and mineral (Rule		since there is	
	13)		negligible top soil	
2c	Stripping ratio or ore to OB ratio	1:0.014	1:002	
2d	Quantity of topsoil generation in	NIL	NIL	
	m3			
2e	Quantity of overburden	13336	4653 tons i.e.	
	generation in m3		CUM 2327	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The bench parameters	are not maintained as	per proposals.

3.0 Exploitation

0.0 L	Apioitution			
SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	

3b	Quantity of ROM mineral production proposed	2019-20:-950222 Tons	2019-2020: - 950148.96 Tons till Oct 2020- 489204.00 Tonnes	
3c	Recovery of saleable/usable mineral from ROM production	2019-20 :- 950222 Tons	2019-2020: - 950148.96 Tons till Oct 2020- 489204.00 Tonnes	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	As per approved document 237555 tons subgrade fines will be generated.	•	

3g	Grade of sub-grade mineral generation	As per approved document the grade of subgrade fines is not mentioned.	Below 55 % Fe	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method by Screening and Crushing.	Mechanised method by Screening and Crushing.	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	As per approved document the beneficiation study has not been proposed	Not Proposed	
3ј	Provision of drilling & blasting in mineral benches	As per approved document the provision of drilling & blasting is mentioned.	Not required at present since the formation is easily excavated by excavators due to softness of ore.	
3k	Provision of mining machineries in mineral benches	1. DTH/Wagon Drill: 03 nos. Capacity 63 mm dia. 2. Portable air compressure 400 CFM -3 Nos 3. Excavators cum Rock Breaker: 06 nos. Capacity 2.6 cum bucket 4. Dumpers: 14 nos. Capacity 25 Tone 5. Water tanker: 01 nos. Capacity 10000 liters 6. Pay loader 1 No	1. Excavators cum Rock Breaker: 06 nos. Capacity 2.6 cum bucket 2. Dumpers: 8 nos. Capacity 25 Tone 3. Water tanker: 01 nos. Capacity 10000 liters 4. Pay loader 1 No 5 Double decor Power screen 250 TPH 2. Crusher (primary And secondary 150 TPH ) 2	

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7Explosive van 8. Double decor Power screen 250 TPH 2. Crusher ( primary And secondary 150 TPH ) 2 As per approved Mod. Approved Mining plan the height of benches is 6 m in both Ore and O.B.	The height of benches has been maintained 8-10 m in Ore and and width is less than height.	
3m	Total area covered under excavation/pits	10.88 Ha for the plan period	7.5 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.05	1:0.01	
30	Total area put in use under different heads at the end of year	Pit- 10.88 Ha for the plan period Waste/reject-0.15 Others-1.064	Pit- 7.5 Ha Waste/reject-0.15 Others-1.129	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	2015-16: 224000 MT 2016-17: 224000 MT 2017-18: 910476 MT	2015-16: 49010 MT 2016-17: 49950 MT 2017-18: 592511 MT	EC granted for 0.05 MTPA
		2018-19: 931472 MT 2019-20- 950222 MT	2018-19: 850871 MT 2019-20: 950148.96 MT	EC for one MTPA
3q	General remarks of inspecting officer on method of mining etc.	combination but during mi	open cast method using ine visit it was observed to bosal and width of bench is less	that the bench

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	1 11		
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local	Top soil-Nil Mineral reject-NIL Waste dump: 498051 to 498080 E	Broadly as per proposal	

	Coordinate/Plot No./Location)	2216530 to 2216570 N	
4c	Number of dumps within lease area and outside lease area.	One number of dump within lease area.	One number of dump within lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	498051 to 498080 E 2216530 to 2216570 N	Broadly as per proposal
4e	Number of active & alive dumps	1	1
4f	Number of dead dumps	Nil	Not Applicable
4g	Number of dumps stabilised	NIL	Not Applicable
4h	Whether Retaining wall or garland drain all along dumps are there	Not mentioned in the approved document.	Constructed Garland drain around waste dump
4i	Length of Retaining wall or garland drain all along dump	Not mentioned in the approved document.	Retaining wall constructed.
4j	Number of settling ponds	Not proposed in approved document	Four nos. of settling pond have been made.
4k	Specific comments of inspecting officer waste dump management	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		NA	
5b	Area under backfilling of mined out area	Not proposed in approved document	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)		No top soil has been generated.	

5d	Total area fully reclaimed &	Not proposed in NIL
	rehabilitated	approved document
5e	General remarks of inspecting officer on backfilling, reclamation etc	Not matured for backfilling.
	on ouckning, reclamation etc	

6.0 Progressive Mine Closure Plan

<u>6.0</u>	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.	As per 26(2) of MCDR 2017 the annual report has to be submitted	Submitted on 01.07.2020.	
6b	Management of worked/mined out be	enches		
	i) Area available for rehabilitation (ha)	As per approved document rehabilitation is not proposed for the year 2019-20	NIL	
	ii) Afforestation done (ha)	NIL	NIL	
	iii) No. of saplings planted during the year	NIL	NIL	
	iv) Cumulative no. of plants	NIL	NIL	
	v) Any other specific method of rehabilitation	NIL	NIL	
	i) Cost incurred on watch & care during the year	NIL	NIL	
6c	Compliance on reclamation and rehal	pilitation by backfilling		
	i) Voids available for backfilling (L X B X D)	0.00	0.00	
	ii) Void filled by waste/tailings	0.00	0.00	
	iii) Afforestation on the backfilled area	0.00	0.00	
	iv) Rehabilitation by making water reservoir	0.00	0.00	
	v) Any other specific means	0.00	0.00	
6d	Compliance of Rehabilitation of waste land within lease	0.00	0.00	

	i) Afforestation	0.00	1600
	ii) Area rehabilitated (ha)	0.00	1.00
	iii) Method of rehabilitation		
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for Compliance of Environmental monitoring in core and buffer zone	

6	f	General remarks of inspecting officer	Broadly as per proposal
		on PMCP compliance & progressive	

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	As per approved document the grade wise sorting by crushing and screening is planned to dispatch to end user	The grade wise sorting has been done by Mechanised screening and crushing.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical by analysing stack on daily basis.	
7c	Different grade of mineral sorted out at mines	Mechanical	Lumps Fe-60 to 62 Lumps Fe 62 to 65 Fines- below 55 Fines 55 to 58 Fines 60 to 62	
7d	Any beneficiation process at mines	As per approved document the beneficiation process at mines is not proposed	NA	

7e	General remark	ks o	of inspecting	Broadly entire mineral is used by blending.
	officer o	n	Mineral	
	conservation d	& b	peneficiation	
	issues			

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	As per approved document the Top soill is negligible.	•	
8b	Concurrent use or storage of topsoil	Not Applicable.	Not Applicable.	
8c		As per approved document the separate dump and fines has been proposed.	waste generated	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use		NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	_	Not Required.	
8f	existence of plantation &	Proposed in Safety zone area of 0.1 Ha and 100 saplings for 2019-20.		

8g	Survival rate	Not mentioned specifically.	d 50%
8h	Water sprinkling on roads to control airborne dust	Yes proposed.	Being done on regular basis
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
	Status of submission	M.R. Submitted on 08.11. 2020 for October 2020.	
	of Monthly and Annual returns	A.R. submitted upto- 2018-19 on 29.06.2020	

S. N. 9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details GIVEN in A.R.  Mining Engineer & Manager: Shri Krishnakant,Geologist Shri Lokesh Kumar Sahu	Observation of I/Officer	Remarks
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<ul> <li>(i) Covered under current (O/C) Workings 7.5ha.</li> <li>(ii) Used for waste disposal 0.150ha.</li> <li>(iii) Occupied by plant, buildings, residential, welfare buildings &amp; roads 0.349 ha.</li> <li>(iv) Other Purpose (Mineral storage, subgrade storage, internal road, mineral separation plant, garland drain) 0.780 ha.</li> </ul>		
9d	Scrutiny of Annual return on afforestation	About 1600 No of plants have been planted in safety zone area		
9e	Scrutiny of Annual return on mineral reject generation	NIL		

	(Grade & quantity)		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	As per Annual Return for the year 2019-20 the ROM stock – 11850.015 Tons and graded ore stock-12628.30 tons and below 55% 42505.98 TONS	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Rs 1348/-	
9i	Scrutiny of Annual return on fixed assets	As per annual Return the total fixed assets is Rs. 56620527/-	
9k	Scrutiny of Annual return on mining machineries	Yes Given	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - The earlier violations pointed out taken compliance. During present inspection for processing of Modified Mining Plan following violations pointed out:

Rule	Nature of Violation observed		
11(1)	Mining operations should have been undertaken in accordance with the approved Mining Plan.  The Modified Mining Plan was approved vide letter no. कांकेर/लौह/खयो-1149/रायपुर dated 23.05.2018 and following deviation was observed during inspection  1. It was proposed that subgrade generation in 2019-20 is 237555 tons but actually 330326 tons subgrade generation reported which is more than 39% of proposal and the quantity of subgrade reported is found dump in lease area.  2. It was observed that there is working deviation w.r.t the proposal given and bench width is more than bench height and bench height is more than 8-10 meters in many places whereas proposal is given for 6 meter bench height.		
37(1)	The existing protective measures taken around waste dump 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 and extending outside lease boundary and no retaining wall constructed. A proper protective measure should be taken to prevent the escape of the material from the existing waste dumps.		