

**MCDR INSPECTION REPORT (2023-24)****File No: - MCDR-MiFLOFE/12/2022-BNG-IBM\_RO\_BNG**

<b>S. N.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine	<b>Donimalai Iron Ore Mine (ML No 2396)</b>
2	Total Lease Area (Ha) with breakup of Non- forest and forest land	597.540 Ha as per CEC sketch, Forest land-597.540 Ha, Non-Forest-0 ha.
3	Mine code	30KAR03011
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/270/2011
5	Name of the lessee, Address, phone, email and fax number	NMDC Limited, 10-3-311/A, Castle Hills, Masab Tank, Hyderabad (Telangana)-500028. Telephone:040-23538706/07 Fax: 040-23538711 email ID: <a href="mailto:diomgeology@nmdc.co.in">diomgeology@nmdc.co.in</a>
6	Village	Donimalai
7	Taluk/Mandal	Sandur
8	District	Bellary
9	Pin code	583118
10	State	Karnataka
11	Post office	Donimalai T.S
12	Nearest police station	Sandur
13	Nearest Railway station	Ranjithpura
14	Date of Grant of Mining Lease	04.11.1968
15	Date of Execution	04.11.1968
16	Date of opening of Mine	1977
17	Date of expiry	03.11.2038, 20 Years (3 <sup>rd</sup> extension)
18	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri. Vinay Kumar, Director (Technical), NMDC Limited, 10-3-311/A, Castle Hills, Masab Tank, Hyderabad (Telangana)-500 028. Telephone:040-23538706/07 Fax: 04023538711 Date of appointment: 01-07-2024
19	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. Shivendra Bahadur Singh, Chief General Manager, NMDC Limited, Donimalai, Bellary, Karnataka. Pin-583118, Phone: Email ID: <a href="mailto:sbsingh@nmdc.co.in">sbsingh@nmdc.co.in</a> Fax:08395274624 Date of appointment: 04-07-2024
20	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri. Anil Kumar, GM (Min), NMDC Limited, P.O. Donimalai Township, Dist. Bellary (Karnataka). Mobile: 9109197659,

		e-mail: anilkumar@nmdc.co.in, Phone/fax: 08395274640 Date of appointment: 24-06-2023
21	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri. S S Prasad, DGM (Min), Qualification: B. Tech (Mining), First class mines manager certificate of competency (restricted), Total experience: 28 years NMDC Limited, P.O. Donimalai Township, Dist. Bellary (Karnataka). Mobile: 9425266456, e-mail: ssprasad@nmdc.co.in, Phone/fax: 08395274640 Date of appointment: 24-06-2023
22	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Dr. D N Subramanyam M.Sc PhD in Geology Total experience: 19 years NMDC Limited, P.O. Donimalai Township, Dist. Bellary (Karnataka). Mobile: 7892947299, e-mail: dsmani@nmdc.co.in, Phone/fax: 08395274640 Date of appointment: 29-07-2023
23	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review and updation of Mining plan was approved vide letter no 279/34/88/BNG dated 16/02/2023, for the period 2023-24 to 2027-28
24	Mineral(s) granted in lease and proved for mining	Iron Ore (Hematite)
25	Method of Mining (Opencast, Underground)	Opencast
26	Category (Fully Mechanized, Others or Manual)	Fully Mechanized 'A' Category
27	Captive/ Non captive	Non captive
28	Date of previous inspection	27.03.2024
29	Date of inspection	22.08.2024
30	Name of accompanying mine officials with designation	Shri. Rajeev Wadhwa, DGM (Geology), Shri S.S. Prasad, Mining Engineer, Dr. D N Subramanyam, Geologist and other mine officials

### Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year (2023-24)	No proposal	Nil	Nil
1b	Exploration over lease area for Geological axis 1 or	13 core boreholes proposed with total meterage of	13 core boreholes drilled with total meterage of 1032.	Violation issued under Rule 11(1) of MCDR

	2.	980.	However, the bore hole was not drilled in proposed location. It is observed during inspection that 9 nos. of exploratory boreholes proposed at 3E pit from cross section N-0 to N-6, D-4 to D-10 & 3 nos. of exploratory boreholes proposed at 2E pit from cross section M-1/20 to M-1/23 have not been carried out as per the proposal for the year 2023-24.	2017.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not mentioned	NMDC in-house (Global Exploration Center, (GEC) Raipur, M/s. NMDC Limited. Phone:07782 265347) Expenditure: Rs 1,83,65,028 /-. It is observed in Part-V (General Geology & Mining) of AR 2023-24 that the expenditure on exploration as reported in this para is not matching with the exploration cost per ton as reported later in Part-VII (Cost of Production).	Violation issued under Rule 45(7) of MCDR 2017.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G-1- 145 ha, Non mineralized area- 452.54 ha (as per the last approved mine plan document dated 16/02/2023.	G-1- 145 ha, Non mineralized area- 452.54 ha (as per the last approved mine plan document dated 16/02/2023.	Nil
1e	<b>Balance reserves as on <u>01.04.2024</u></b>	127,582,852 tons of iron ore (94,472,868 tons	Balance mineral reserves as on 01.04.2024 is	As reported by Lessee in AR 2023-24.

		with avg grade 64.63 % Fe and 33,109,984 with avg grade 63.35 % Fe) as on 1.09.2022 as per the last approved document dated 16/02/2023.	118,070,761 tons after depletion of production.	
1f	General remarks of inspecting officer on geology, exploration etc.	<p>i) It is observed during inspection that 9 nos. of exploratory boreholes proposed at 3E pit from cross section N-0 to N-6, D-4 to D-10 &amp; 3 nos. of exploratory boreholes proposed at 2E pit from cross section M-1/20 to M-1/23 have not been carried out as per the proposal for the year 2023-24. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>ii) It is observed in Part-V (General Geology &amp; Mining) of AR 2023-24 that the expenditure on exploration as reported in this para is not matching with the exploration cost per ton as reported later in Part-VII (Cost of Production). Violation issued under Rule 45(7) of MCDDR 2017.</p>		

### Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	<p><b>a) South Block (SB)</b> N 1663665 to 1665015 E 675059 to 675757</p> <p><b>b) BMMX</b> N 1662676 to 1663781 E 675420 to 675983</p> <p><b>c) 2E Deposit (North Block)</b> N 1665891 to 1666251 E 674717 to 675004</p> <p><b>d) 3E Deposit (North Block)</b> N 1667510 to 1668539 E 673596 to 674158</p>	<p>i) It is observed during inspection that the development of benches at South block (SB) pit at eastern side is lagging and is not developed systematically with 12 m bench height as proposed between section C-5 to C-8 as per proposal.</p> <p>ii) It is observed from the submitted drone data and inspection, that the development of benches at Pit 3E has not been carried out systematically maintaining bench height of 12 m as per the proposal between section D-9 to D-11.</p>	Violation issued under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and	No topsoil generation. Separate benches proposed in	i) It is observed during inspection that the development of	Violation issued under Rule 11(1) of

	mineral (Rule 15)	OB & mineral.	benches at South block (SB) pit at eastern side is lagging and is not developed systematically with 12 m bench height as proposed between section C-5 to C-8 as per proposal.  ii) It is observed from the submitted drone data and inspection, that the development of benches at Pit 3E has not been carried out systematically maintaining bench height of 12 m as per the proposal between section D-9 to D-11.	MCDR 2017.
2c	Stripping ratio or ore to OB ratio	1: 2.86 in tons proposed	The stripping ratio proposed for the year 2023-24 is 1:2.86(20,051,000 tons waste/7,000,000 tons ore) against which only 1:0.75(4,241,646 tons waste/5,666,132 tons ore) has been achieved. Less development & corresponding waste handling (4,241,646 tons/ 1,631,402 Cum) has been carried out proportionate to achieved ROM production of 5,666,132 tons	Violation issued under Rule 11(1) of MCDR 2017
2d	Quantity of topsoil generation in m3	No proposal	Nil	Nil
2e	Quantity of overburden generation in m3	7,711,923 Cum proposed.	Less development & corresponding waste handling (4,241,646 tons/ 1,631,402 Cum) has been carried out proportionate to achieved ROM	Violation issued under Rule 11(1) of MCDR 2017.

			production of 5,666,132 tons	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	i)	The stripping ratio proposed for the year 2023-24 is 1:2.86(20,051,000 tons waste/7,000,000 tons ore) against which only 1:0.75(4,241,646 tons waste/5,666,132 tons ore) has been achieved. Less development & corresponding waste handling (4,241,646 tons/ 1,631,402 Cum) has been carried out proportionate to achieved ROM production of 5,666,132 tons. Accordingly, development of benches at South block (SB) pit at eastern side is lagging and is not developed systematically with 12 m bench height as proposed between section C-5 to C-8 as per proposal. Violation issued under Rule 11(1) of MCDR 2017.	
		ii)	It is observed from the submitted drone data and inspection, that the development of benches at Pit 3E has not been carried out systematically maintaining bench height of 12 m as per the proposal between section D-9 to D-11. Violation issued under Rule 11(1) of MCDR 2017.	

### Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	4 pits proposed for production	Actual production carried out in 4 pits	SB, BMMX, 2E & 3E pits
3b	Quantity of ROM mineral production proposed	7,000,000 tons of ROM production proposed	5,666,132 tonnes of ROM production achieved.	As reported by Lessee in AR 2023-24.
3c	Recovery of salable/usable mineral from ROM production	100% proposed	100% achieved	Nil
3d	Quantity of mineral reject generation	No proposal	Nil	Nil
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	Nil
3f	Quantity of sub-grade mineral generation	No proposal	Nil	Nil
3g	Grade of sub-grade mineral generation	No proposal	Nil	Nil
3h	Manual / Mechanised method adopted for segregating	Only dry Crushing & Screening proposed	Dry Crushing & Screening carried out. The Crusher details	Crusher-1800 & 750 TPH & O/p Size 0 - 10 mm

	from ROM		are not reported under Part V (6)-Type of Machinery of AR 2023-24	(Fines) 10-40 mm (Lumps). Violation issued under Rule 45(7) of MCDR 2017.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	Deep hole Drilling and Blasting is proposed.	Deep hole Drilling and Blasting is being carried out Drilling is done with drill of 165 mm dia. & 114 mm dia. drills. and slurry explosive used in conjunction with delay detonators.	Drill-165 mm & 114 mm dia. Explosive-Slurry Explosive. (As reported in AR 2023-24)
3k	Provision of mining machineries in mineral benches	Mining Machineries proposed.	i)Excavators-8 Cum-2 nos. 9 Cum-2 nos. 5.6 Cum- 2 nos. 4 Cum- 1no. 0.72 Cum- 1no. ii)Wheel Loader- 8 Cum-1 no. iii)Dumpers-100 tons-12 nos. iv)Drill-165 mm-6 no. 114 mm- 1 no. v)Water tanker-28 KL-4 nos. vi)Dozer- 8 nos. vii)Motor Grader- 3 nos.	As reported in AR 2023-24. The Crusher details are not reported under Part V (6)-Type of Machinery of AR 2023-24. Violation issued under Rule 45(7) of MCDR 2017.
3l	Whether height of benches in overburden and mineral suitable	FOR BMMX pit – 6m bench height proposed and for South block pit (SB),	i)It is observed during inspection that the development of benches at South	Violation issued under Rule 11(1) of MCDR 2017.

	for method of mining proposed in MP/SOM	2E Pit and 3E Pit- 12 metres bench height proposed.	block (SB) pit at eastern side is lagging and is not developed systematically with 12 m bench height as proposed between section C-5 to C-8 as per proposal.  ii) It is observed from the submitted drone data and inspection, that the development of benches at Pit 3E has not been carried out systematically maintaining bench height of 12 m as per the proposal between section D-9 to D-11.	
3m	Total area covered under excavation/pits	213.92 Ha as on 01.04.2024 as per the last approved mining plan dated 16/02/2023.	214.16 Ha as on 01.04.2024	As reported in AR 2023-24.
3n	Ore to OB ratio for the pit/mine during the year	1: 2.86 in tons proposed	The stripping ratio proposed for the year 2023-24 is 1:2.86(20,051,000 tons waste/7,000,000 tons ore) against which only 1:0.75(4,241,646 tons waste/5,666,132 tons ore) has been achieved. Less development & corresponding waste handling (4,241,646 tons/ 1,631,402 Cum) has been carried out proportionate to achieved ROM production of 5,666,132 tons	Violation issued under Rule 11(1) of MCDR 2017
3o	Total area put in use under different heads at the end of year	Mining: 213.92 Ha OB dumps: 144.71 Ha Infrastructure & Roads: 24.87 Ha	Mining: 214.16 Ha OB dumps: 134.62 Ha Infrastructure & Roads: 23.7 Ha	As reported by Lessee in AR 2023-24.



		As on 01/04/2024 as per the last approve document.	(As reported by Lessee in AR 2023-24)	
3p	Production of ROM mineral during last five-year period, as applicable	<b>2019-20:</b> 6000000 <b>2020-21:</b> 2000000 <b>2021-22:</b> 7000000 <b>2022-23:</b> 7000000 <b>2023-24:</b> 7000000 <b>(In tons)</b>	<b>2019-20:</b> 0 <b>2020-21:</b> 554463 <b>2021-22:</b> 5364432 <b>2022-23:</b> 5728776 <b>2023-24:</b> 5666132 <b>(In tons)</b>	Nil.
3q	General remarks of inspecting officer on method of mining etc.	<p>i) The stripping ratio proposed for the year 2023-24 is 1:2.86(20,051,000 tons waste/7,000,000 tons ore) against which only 1:0.75(4,241,646 tons waste/5,666,132 tons ore) has been achieved. Less development &amp; corresponding waste handling (4,241,646 tons/ 1,631,402 Cum) has been carried out proportionate to achieved ROM production of 5,666,132 tons. Accordingly, development of benches at South block (SB) pit at eastern side is lagging and is not developed systematically with 12 m bench height as proposed between section C-5 to C-8 as per proposal. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>ii) It is observed from the submitted drone data and inspection, that the development of benches at Pit 3E has not been carried out systematically maintaining bench height of 12 m as per the proposal between section D-9 to D-11. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>iii) The Crusher details are not reported under Part V (6)-Type of Machinery of AR 2023-24. Violation issued under Rule 45(7) of MCDR 2017.</p>		

### Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping proposed for OB at BF3, AD-1, AD-2 & PD-1 dump.	Separate dumping carried out at BF-3 and AD-1 dump. No waste dumping carried out at PD-1. The backfilling dump (BF-3) for the year 2023-24, is proposed stagewise from 990 mRL to 1020 mRL maintaining 3 stage/lifts. It is observed from submitted drone data and inspection that the stages have not been maintained as	Violation issued under Rule 11(1) of MCDR 2017.

			per the proposal between Section M-28 to M-35. Also, it is observed at Sec M-33(N1666710, E-674233) that height has gone beyond the proposed maximum limit of 1020 mRL for the year 2023-24, till 1030 mRL	
4b	Location of topsoil, OB & mineral reject dumps	<p><b>a) BF-3</b> N 1666162 to 1666863 E 673980 to 674500</p> <p><b>b) AD -1</b> N 1666411 to 1667341 E 673950 to 674561</p> <p><b>c) AD-2</b> N 1664009 to 1664745 E 675941 to 676458</p>	The backfilling dump (BF-3) for the year 2023-24, is proposed stagewise from 990 mRL to 1020 mRL maintaining 3 stage/lifts. It is observed from submitted drone data and inspection that the stages have not been maintained as per the proposal between Section M-28 to M-35. Also, it is observed at Sec M-33(N-1666710, E-674233) that height has gone beyond the proposed maximum limit of 1020 mRL for the year 2023-24, till 1030 mRL	Violation issued under Rule 11(1) of MCDR 2017.
4c	Number of dumps within lease area and outside lease area	10 Waste dumps within Lease (AD-1, AD-2, AD-3, BF-1, BF-3, BF-4, ID-1, ID-3, ID-4 & ID-5)	10 Waste dumps within Lease (AD-1, AD-2, AD-3, BF-1, BF-3, BF-4, ID-1, ID-3, ID-4 & ID-5)	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Portion of waste dump ID-1, ID-4, ID-5, AD-2 & AD-3 within UPL as per the current exploration data	Portion of waste dump ID-1, ID-4, ID-5, AD-2 & AD-3 within UPL as per the current exploration data	Nil
4e	Number of active & alive dumps	AD-1, AD-2, AD-3, BF-3 & BF-4(5 Active dumps)	AD-1, AD-2, AD-3, BF-3 & BF-4(5 Active dumps)	Nil
4f	Number of dead dumps	ID-1, ID-3, ID-4 & ID-5, BF-1 (5 Inactive dumps)	ID-1, ID-3, ID-4 & ID-5, BF-1 (5 Inactive dumps)	Nil

4g	Number of dumps stabilized	BF-1 backfilled dump stabilized as per the last approved document	BF-1 backfilled dump stabilized	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	260 metres Retaining wall and 260 metres garland drain proposed for the year 2023-24	It is observed from the submitted drone data and inspection that the construction of 260 metres Retaining wall & 260 metres garland drain as proposed at eastern portion of waste dump AD-2, for the year 2023-24 has not been constructed.	Violation issued under Rule 11(1) of MCDR 2017.
4i	Length of Retaining wall or garland drain all along dump	260 metres Retaining wall and 260 metres garland drain proposed for the year 2023-24	It is observed from the submitted drone data and inspection that the construction of 260 metres Retaining wall & 260 metres garland drain as proposed at eastern portion of waste dump AD-2, for the year 2023-24 has not been constructed.	Violation issued under Rule 11(1) of MCDR 2017.
4j	Number of settling ponds	No proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management.	<p>i) The backfilling dump (BF-3) for the year 2023-24, is proposed stagewise from 990 mRL to 1020 mRL maintaining 3 stage/lifts. It is observed from submitted drone data and inspection that the stages have not been maintained as per the proposal between Section M-28 to M-35. Also, it is observed at Sec M-33(N-1666710, E-674233) that height has gone beyond the proposed maximum limit of 1020 mRL for the year 2023-24, till 1030 mRL. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>ii) It is observed from the submitted drone data and inspection that the construction of 260 metres Retaining wall &amp; 260 metres garland drain as proposed at eastern portion of waste dump AD-2, for the year 2023-24 has not been constructed. Violation issued under Rule 11(1) of MCDR 2017.</p>		

### Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling proposed for the year 2023-24 in BF-3.	The backfilling dump (BF-3) for the year 2023-24, is proposed stagewise from 990 mRL to 1020 mRL maintaining 3 stage/lifts. It is observed from submitted drone data and inspection that the stages have not been maintained as per the proposal between Section M-28 to M-35. Also, it is observed at Sec M-33(N-1666710, E-674233) that height has gone beyond the proposed maximum limit of 1020 mRL for the year 2023-24, till 1030 mRL.	Violation issued under Rule 11(1) of MCDR 2017.
5b	Area under backfilling of mined out area	18.84 Ha proposed at backfill dump BF-3.	18.84 Ha at BF-3	As reported by Lessee in Annual PMCP report 2023-24.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	Nil
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	The backfilling dump (BF-3) for the year 2023-24, is proposed stagewise from 990 mRL to 1020 mRL maintaining 3 stage/lifts. It is observed from submitted drone data and inspection that the stages have not been maintained as per the proposal between Section M-28 to M-35. Also, it is observed at Sec M-33(N-1666710, E-674233) that height has gone beyond the proposed maximum limit of 1020 mRL for the year 2023-24, till 1030 mRL. Violation issued under Rule 11(1) of MCDR 2017.		

### Progressive Mine Closure Plan

S. N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report	To be	Annual	Submitted within

	on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20.	submitted before 1 <sup>st</sup> of July every year.	PMCP report submitted along with AR 2023-24 on 27.06.2024	timeline.
6b	Area available for rehabilitation (ha)	0.68 ha afforestation proposed at ID-5 waste dump	0.80 ha afforestation carried out at inactive dump ID-5.	As reported by Lessee in Annual PMCP report 2023-24
6c	Afforestation done (ha)	0.68 ha afforestation proposed at ID-5 waste dump	0.80 ha afforestation carried out at inactive dump ID-5.	As reported by Lessee in Annual PMCP report 2023-24
6d	No. of saplings planted during the year	1700 nos. of saplings plantation proposed	3000 nos. of saplings planted carried out ID-5 waste dump	As reported by Lessee in AR 2023-24
6e	Cumulative no. of plants	1,35,040 nos. of cumulative plants as on 01.04.2023	1,38,040 nos. of cumulative plants as on 01.04.2024	As reported by Lessee in AR 2023-24
6f	Any other specific method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch & care during the year	Rs 6,80,000 proposed for afforestation .	As per proposal	As reported by Lessee during inspection.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	18.84 Ha proposed at backfill dump BF-3.	18.84 Ha at BF-3	As reported by Lessee in Annual PMCP report 2023-24.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings	No proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area	No proposal	Nil	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	No proposal	Nil	Nil
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	No proposal	Nil	Nil
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha)	No proposal	Nil	Nil
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Nil	Nil
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Regular Environmental Monitoring of Core and Buffer zone is proposed.	Environmental Monitoring of Core and Buffer zone is being carried out. Environmental monitoring report of Dec-23 to Feb-24 checked during inspection. All parameters within limit.	Parameters which are being Monitored: (Air, Noise, Water (Surface water & Ground water) etc.
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	i)Annual PMCP report for the 2023-24 submitted within timeline. ii)The PMCP activities carried out inside mine as per the proposal.		

<b>Mineral Conservation</b>				
<b>S.N.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual work</b>	<b>Remarks</b>
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Only dry crushing & screening proposed	Dry crushing & screening carried out. ROM production- 5,666,132 tons. Graded ore production- 5,665,560 tons Graded ore Despatch- 5,690,123 tons.	Crusher-1800 & 750 TPH
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Only Dry crushing and screening proposed. Overall ROM grade range proposed 54-65.10 % Fe proposed for year 2023-24.	<b>Fines</b> Fe 45-51% Fe 51-55% Fe 55-58% Fe 58-60% Fe 60-62% Fe 62-65% <b>Lumps</b> Fe 55-58% Fe 58-60% Fe 60-62% Fe 62-65% (Production grade range for the year 2023-24)	As reported by Lessee in AR 2023-24.
7c	Different grade of mineral sorted out at mines	Only Dry crushing and screening proposed. Overall ROM grade range proposed 54-65.10 % Fe proposed for year 2023-24.	<b>Fines</b> Fe 45-51% Fe 51-55% Fe 55-58% Fe 58-60% Fe 60-62% Fe 62-65% <b>Lumps</b> Fe 55-58% Fe 58-60% Fe 60-62% Fe 62-65% (Production grade range for the year 2023-24)	As reported by Lessee in AR 2023-24.
7d	Any beneficiation process at mines	No proposal	Nil	There is no wet mineral processing inside the mine, accordingly Feed, Concentrates-

				Processed products, by products-Co products, Tailings are not applicable, however quantity has been reported in Part-V(7(ii)) of AR 2023-24. Violation issued under Rule 45(7) of MCDR 2017.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	i)Mineral conservation activities carried out inside the mine as per the proposal. ii) There is no wet mineral processing inside the mine, accordingly Feed, Concentrates-Processed products, by products-Co products, Tailings are not applicable, however quantity has been reported in Part-V(7(ii)) of AR 2023-24. Violation issued under Rule 45(7) of MCDR 2017.		

### Environment

S. N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	Nil
8b	Concurrent use or storage of topsoil	No proposal	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping proposed for OB at BF3, AD-1, AD-2 & PD-1 dump.	Separate dumping carried out at BF-3 and AD-1 dump. No waste dumping carried out at PD-1. The backfilling dump (BF-3) for the year 2023-24, is proposed stagewise from 990 mRL to 1020 mRL maintaining 3 stage/lifts. It is observed from submitted drone data and inspection that the stages have not been maintained as per the proposal between Section M-28 to M-35. Also, it is	Violation issued under Rule 11(1) of MCDR 2017.



			observed at Sec M-33(N1666710, E-674233) that height has gone beyond the proposed maximum limit of 1020 mRL for the year 2023-24, till 1030 mRL	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	18.84 Ha proposed.at backfill dump BF-3.	18.84 Ha at BF-3	As reported by Lessee in Annual PMCP report 2023-24.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1,35,040 nos. of cumulative plants as on 01.04.2023	1,38,040 nos. of cumulative plants as on 01.04.2024	As reported by Lessee in AR 2023-24
8g	Survival rate	85% proposed within ML area	85% achieved within ML area	As reported by Lessee in AR 2023-24
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on road is proposed to control airborne dust.	Water tankers have been deployed for sprinkling on roads to control airborne dust.	No. of Water Tankers: 4 nos. Capacity: 28 KL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	i)The aesthetic beauty in and around the mine looks good. ii) The backfilling dump (BF-3) for the year 2023-24, is proposed stagewise from 990 mRL to 1020 mRL maintaining 3 stage/lifts. It is observed from submitted drone data and inspection that the stages have not been maintained as per the proposal between Section M-28 to M-35. Also, it is observed at Sec M-33(N1666710, E-674233) that height has		

		gone beyond the proposed maximum limit of 1020 mRL for the year 2023-24, till 1030 mRL		
<b>Compliance of Rule 45</b>				
<b>S. N.</b>	<b>Item</b>	<b>COMMENTS</b>		<b>Remarks</b>
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to July 2024 on 09.08.2024 ***** A.R. Submitted up to 2023-24 on 27.06.2024		Submitted within timeline.
<b>S. N.</b>	<b>Item</b>	<b>Details GIVEN in A.R. 2023-24</b>	<b>Observation of I/Officer</b>	<b>Remarks</b>
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: - Sri S.S Prasad Geologist: - Dr. D N Subramanyam Manager- Sri Anil Kumar	Appears to be correct.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining: 214.16 Ha OB dumps: 134.62 Ha Infrastructure & Roads: 23.7 Ha	Appears to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	3000 Nos. within ML area with 85 % survival rate. Cumulative within ML area-1,38,040 nos. of plants.	Appears to be correct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Appears to be correct.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	<b>ROM:</b> Opening Balance: 139,570 tons Production: 5,666,132 tons Closing Balance: 140,142 tons	Appears to be correct.	Nil

		<b>Graded Ore + (Lumps Fines):</b> Opening Balance: 125,490 tons Production: 5,665,560 tons Dispatch: 5,690,123 tons Closing Balance: 100,927 tons		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	<b>Ex. Mine price: Rs/Ton, Fines</b> Fe-45-51-1916.47 Fe-51-55 %-2490.22 Fe 55-58%-3071.14 Fe 58-60%-3329.52 Fe 60-62%-3574.45 Fe 62-65%-3728.22 (Rs/ton) <b>Lumps</b> Fe-51-55 %-2933.63 Fe 55-58%-3206.49 Fe 58-60%-3583.21 Fe 60-62%-3818.53 Fe 62-65%-4197.80 Fe 65% & above- 4683.33 (Rs/ton) <b>Cost of production:</b> 2288.47 Rs/Ton,	i) Part-VII: The cost of production per tonne under the para is not reported correctly since there is error in reported exploration cost per ton, Depreciation cost per ton, Royalty, DMF & NMET cost per ton.  ii) Part-III (Consumption of Materials)-The Royalty, DMF and NMET figures as reported under the para is not matching with the reported Royalty, DMF and NMET cost per ton as reported later in Part-VII (cost of production) considering the reported figures of this para &	Violation issued under Rule 45(7) of MCDR 2017

			the reported despatch quantity of Part VI(3(ii)). iii) Part-V (General Geology & Mining) : iii) The expenditure on exploration as reported in this para is not matching with the exploration cost per ton as reported later in Part-VII (Cost of Production). ii) The Crusher details are not reported und	
9i	Scrutiny of Annual return on fixed assets	Rs 2590432976 including Land, Industrial, Residential & Plant and machinery. Depreciation-Rs. 290010380	Part-II A (Capital Structure): The total depreciation during the year as reported under the para is not m	Violation issued under Rule 45(7) of MCDR 2017
9k	Scrutiny of Annual return on mining machineries	i)Excavators-8 Cum-2 nos. 10 Cu m-2 nos. 5.6 Cum- 2 nos. 4 Cum-1no. 0.72 Cum-1no. ii)Wheel Loader- 8 Cum-1 no. iii)Dumpers-100 tons-12 nos.	Appears to be correct.	Nil

		iv)Drill-165 mm-6 no. 114 mm- 1 no. v)Water tanker-28 KL-4 nos. vi)Dozer- 8 nos. vii)Motor Grader- 3 nos.			
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule No.	Issued on	Compliance on	Rule No.	Issued on	Compliance on
11(1)	11/09/2024	29/11/2024	45(7)	11/09/2024	14/10/2024

संदीप कुमार सिंह. /Sandeep Kumar Singh)  
वरिष्ठ सहायक खान नियंत्रक/ Senior Assistant Controller of Mines