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MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/331/BNG

Mine code : 30KAR03011

- (i) Name of the Inspecting : **S19**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri. Rajeev Wadhwa, DGM (Geo), Shri. S S Prasad, Mini
Official with
Designation
- (iv) Date of Inspection : 28/12/2023
- (v) Prev.inspection date : 14/09/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DONIMALAI**
- (b) **Registration NO.** : **IBM/270/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : DONIMALA TOWNSHIP
Taluka : SANDUR
Post office : DONIMALAI TOWNSHIP
Pin Code : 583118
FAX No. : 08395-274687
E-mail : diommining@nmhc.co.in, kior
Phone : 08395-274649,274624, 94498'
- (f) Police Station : SANDUR
- (g) First opening date : 18/10/1972
- (h) Weekly day of rest : SUN
2. Address for : SRI.D.K.MOHANTHY, DIRECTOR(PRODUCTION)
correspondance : NMDC LTD, MASAB TANK, HYDERABAD,
ANDHRAPRADESH - 500028. P-040- 23538711
3. (a) Lease Number : ML No 2396
- (b) Lease area : 597.54
- (c) Period of lease : 50
- (d) Date of Expiry : 03/11/2038
4. Mineral worked : IRON ORE Main

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5. Name and Address of the

Lessee : NATIONAL MINERAL DEV. CORPN. LTD
 10-3-311/A, CASTLE HILLS,
 MASAB TANK, HYDERABAD
 TELANGANA
 Phone:3538706
 FAX :3538705

Owner : D. K. Mohanty, Director (Production)
 NMDC Limited, 10-3-311/A
 Castle Hills, Masab Tank,
 Hyderabad(Telangana)-
 500028. HYDERABAD TELANGANA
 Phone: 040-23538706/07
 FAX : 04023538711

Agent : Sanjeev Sahi
 Karnataka. Pin-583118
 BELLARY KARNATAKA
 Phone:
 FAX : 08395274624

Mining Engineer

Name : S S PRASAD,DGM,Full Time
 Qualification : B E MINING , FCC
 Appointment/ : 24/06/2023
 Termination date

Geologist

Name : Dr.D N SUBRAMANYAM,Full Time
 Qualification : PhD in Geology
 Appointment/ : 29/07/2023
 Termination date

Manager

Name : ANIL KUMAR , GM
 Qualification : BTech Mining, FCC
 Appointment/ : 24/06/2023
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	05/06/1989
		Mining Scheme rule 12 MCDR1988	25/07/1995
		Renewal under rule 22 MCR1960	29/05/2000
		Mining Scheme rule 12 MCDR1988	20/10/2004
		Modif.approved Mining Scheme	16/03/2007
		Renewal under rule 22 MCR1960	18/08/2008
		Mining Scheme rule 12 MCDR1988	18/09/2012
		MS modif under MCR 1960	17/02/2014
		MP modif under 17(3) MCR 2016	08/09/2016
		MP modif under 17(3) MCR 2016	16/05/2017
		MP review under 17(1) MCR 2016	03/12/2020
		MP review under 17(1) MCR 2016	16/02/2023

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	18 nos. of exploratory boreholes proposed with total meterage of 1290 metres for the year 2022-23.	It was observed that only 7 nos. of boreholes with total meterage 749.5 metres have been carried out in the year 2022-23 against the proposed exploratory drilling of 18 borehole with total of 1290 metres.	Violation issued under Rule 11(1) of MCDR 2017.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned	NMDC in-house (Global Exploration Center, (GEC) Raipur, M/s. NMDC Limited. Part-V of AR 2022-23: It is observed during site inspection that 'No of Holes' and meterage details have not been reported correctly under Part(V)(1). Accordingly, the 'Expenditure on Exploration' also needs to be verified	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

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1e	Balance reserve as on 01/04/20	127,582,852 tons of iron ore (94,472,868 tons with avg grade 64.63 % Fe and 33109984with avg grade 63.35 % Fe) as on 1.09.2022 as per the last approved document dated 16/02/2023.	Balance mineral reserves as on 01.04.2023 is 123,736,893 tons of iron ore.The details of Mineral Reserves & Resources under different UNFC code are not reported correctly under Part-V (2) of AR 2022-23 as per the last approved mine plan document dated 16/02/2023.	Violation issued under Rule 45(7) of MCDR 2017.
1f	General remarks of inspecting officers on geology, exploration etc		i) It was observed that only 7 nos. of boreholes with total meterage 749.5 metres have been carried out in the year 2022-23 against the proposed exploratory drilling of 18 borehole with total of 1290 metres. Violation issued under Rule 11(1) of MCDR 2017.	ii)Part-V of AR 2022-23: It is observed during site inspection that ''No of Holes'' and meterage details have not been reported correctly under Part(V)(1). Accordingly, the ''Expenditure on Exploration'' also needs to be verified. ii)The details of Mineral Reserves & Resources under different UNFC code are not reported correctly under Part-V (2) as per the last approved mine plan document dated 16/02/2023. Violation issued under Rule 45(7) of MCDR 2017.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	<p>a) South Block N 1663660 to 1665040 E 675070 to 675770</p> <p>b) BMMX N 1662670 to 1663790 E 675420 to 676600</p> <p>c) 2E Deposit (North Block) N 1665880 to 1666130 E 674770 to 674980</p> <p>d) 3W Deposit (North Block) N 1667420 to 1668020 E 673520 to 673940</p> <p>e) 3E Deposit (North Block) N 1667470 to 1668380 E 673620 to 674120</p>	<p>i) 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-6 to C-11 as per proposal.</p> <p>ii) 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-6 to D-10. Also, at Section P of Pit 3W, the excavation has been carried out beyond the proposed vertical limit of 945 mRL till 935 mRL</p>	Violation issued under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No topsoil generation. Separate benches proposed in OB & mineral.	<p>i) 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-6 to C-11 as per proposal.</p> <p>ii) 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-6 to D-10. Also, at Section P of Pit 3W, the excavation has been carried out beyond the proposed vertical limit of 945 mRL till 935 mRL</p>	Violation issued under Rule 11(1) of MCDR 2017.

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2c	Stripping ratio or ore to OB ratio	1: 3.03 (in tons) proposed	1: 1.97(in tons) achieved.The stripping ratio proposed for the year 2022-23 is 1:3.03 against which 1:1.97 has been achieved. Less development & corresponding waste handling (11,301,864 tons/4,346,871Cum) has been carried out proportionate to achieved ROM production of 5,728,776 tons	ROM- 5,728,776 tons. Wwaste-4,346,871 Cum~11,301,864 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	21,251,000 tons corresponding to 7,000,000 tons ROM production proposed.	Less development & corresponding waste handling (11,301,864 tons/4,346,871Cum) has been carried out proportionate to achieved ROM production of 5,728,776 tons	Violation issued under Rule 11(1) of MCDR 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		i)The stripping ratio proposed for the year 2022-23 is 1:3.03 against which 1:1.97 has been achieved. Less development & corresponding waste handling (11,301,864 tons/4,346,871Cum) has been carried out proportionate to achieved ROM production of 5,728,776 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-6 to C-11 as per proposal. Violation issued under Rule 11(1).	ii) 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-6 to D-10. Also, at Section P of Pit 3W, the excavation has been carried out beyond the proposed vertical limit of 945 mRL till 935 mRL. Violation issued under Rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	5 pits proposed for production.	Actual production carried out from 5 pits.i) 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-6 to C-11 as per proposal. a) South Block N 1663660 to 1665040 E 675070 to 675770 b) BMMX N 1662670 to 1663790 E 675420 to 676600 c) 2E Deposit (North Block) N 1665880 to 1666130 E 674770 to 674980 d) 3W Deposit (North Block) N 1667420 to 1668020 E 673520 to 673940 e) 3E Deposit (North Block) N 1667470 to 1668380 E 673620 to 674120	Violation issued under Rule 11(1) of MCDR 2017.
3b	Quantity of ROM mineral production proposed	7,000,000 tons proposed	5,728,776 tonnes achieved	As reported in AR 2022-23.
3c	Recovery of sailable/usable mineral from ROM production	100% proposed	100% achieved	NIL
3d	Quantity of mineral reject generation	No proposal of Mineral Reject generation.	Nil. There are no Mineral rejects generation proposal as per the approved document whereas 12000 tonnes of iron ore with average grade 45 % have been reported in Part-V (3) as Mineral Reject which is not correct.	Violation issued under Rule 45(7) of MCDR 2017.

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3e	Grade of mineral rejects generation and threshold value declared.	No proposal of Mineral Reject generation.	Nil. There are no Mineral rejects generation proposal as per the approved document whereas 12000 tonnes of iron ore with average grade 45 % have been reported in Part-V (3) as Mineral Reject which is not correct.	Violation issued under Rule 45(7) of MCDR 2017.
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 from ROM	Only dry Crushing & Screening proposed	Dry Crushing & Screening carried out.	Crusher-1800 & 750 TPH & Screen-800 & 550 TPH capacity. O/p Size 0 - 10 mm (Fines) 10-40 mm (Lumps)
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	NIL	NIL
3j	Provision of drilling and 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 152 mm dia. & 100 mm dia. drills. and slurry explosive used in conjunction with delay detonators.	Drill-152 mm & 100 mm dia. Explosive-Slurry Explosive. (As reported in AR 2022-23)
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-11 nos. iv) Drill-152 mm-1 no. 100 mm- 1 no. v) Water tanker-28 KL-3 nos. vi) Dozer- 8 nos. vii) Motor Grader- 3 nos.	As reported in AR 2022-23.

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	FOR BMMX pit - 6m bench height proposed and for South block pit, 2E Pit, 3W Pit, 3E Pit- 12 metres bench height proposed.	i)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-6 to C-11 as per proposal. ii)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-6 to D-10. Also, at Section P of Pit 3W, the excavation has been carried out beyond the proposed vertical limit of 945 mRL till 935 mRL	Violation issued under Rule 11(1) of MCDR 2017.
3m	Total area covered under excavation/pits	210.52 Ha of mining as per the last approved mining plan dated 16/02/2023.	The land use (area in ha) as given in Part-I (12) under 12(ii) of AR 2022-23, i.e., Covered under current(O/C) workings have not been reported correctly in accordance with approved land use pattern of the last approved mine plan document dated 16/02/2023.	Violation issued under Rule 45(7) of MCDR 2017.
3n	Ore to OB ratio for the pit/mine during the year.	1: 3.03 (in tons) proposed	1: 1.97(in tons) achieved.The stripping ratio proposed for the year 2022-23 is 1:3.03 against which 1:1.97 has been achieved. Less development & corresponding waste handling (11,301,864 tons/4,346,871Cum) has been carried out proportionate to achieved ROM production of 5,728,776 tons	ROM- 5,728,776 tons. Wwaste-4,346,871 Cum-11,301,864 tons. Violation issued under Rule 11(1) of MCDR 2017.

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3o	Total area put in use under different heads at the end of year	Mining- 210.52 Ha O/B Dumps- 138.96 Ha Infrastructure & roads-25.72 ha (As per the last approved document dtd. 16/02/2023)	Mining- 204.71 Ha O/B Dumps- 138.96 Ha Infrastructure & roads- 25.72 ha. The land use (area in ha) as given in Part-I (12) under 12(ii) of AR 2022-23, i.e., Covered under current(O/C) workings have not been reported correctly in accordance with approved land use pattern of the last approved mine plan document dated 16/02/2023.	As reported in AR 2022-23.Violation issued under Rule 45(7) of MCDR 2017.
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 6,000,000 2019-20: 6,000,000 2020-21: 2,000,000 2021-22: 7,000,000 2022-23: 7,000,000 (in tonnes)	2018-19: 2,012,260 2019-20: 0 2020-21: 554,463 2021-22: 5,316,479 2022-23: 5,728,776 (in tonnes)	NIL
3q	General remarks of inspecting officers on method of mining etc.	i) 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-6 to C-11 as per proposal. Violation issued under Rule 11(1) of MCDR 2017.	ii) 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-6 to D-10. Also, at Section P of Pit 3W, the excavation has been carried out beyond the proposed vertical limit of 945 mRL till 935 mRL.Violation issued under Rule 11(1) of MCDR 2017.	iii) The land use (area in ha) as given in Part-I (12) under 12(ii) of AR 2022-23, i.e., Covered under current(O/C) workings have not been reported correctly in accordance with approved land use pattern of the last approved mine plan document dated 16/02/2023.Violation issued under Rule 45(7) of MCDR 2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed. (BF-3, BF-4, BF-5 & PD-3). BF-3,4 &5 are backfilling dumps.	Separate dumping of OB carried at backfilling dumps BF-3& BF-4.No waste dumping carried out at BF-5 &PD-3. The 12 m systematic stages/lifts have not been maintained at Backfilling dump (BF-4) between section M-18 to M-21 from 995 to 1030 mRL as per 2022-23 waste dumping proposal.	Violation issued under Rule 11(1) of MCDR 2017.
4b	Location of topsoil, OB and mineral reject dumps	a) BF-3 N 1666200 to 1666800 E 673900 to 674500 b) BF-4 N 1665700 to 1666300 E 675300 to 674700 c) BF-5 N 1666800 to 1668300 E 673400 to 673900 d) PD-3 N 1668000 to 1668500 E 673300 to 673600	Separate dumping of OB carried at backfilling dumps BF-3 & BF-4.No waste dumping carried out at BF-5 & PD-3. The 12 m systematic stages/lifts have not been maintained at Backfilling dump (BF-4) between section M-18 to M-21 from 995 to 1030 mRL as per 2022-23 waste dumping proposal.	Violation issued under Rule 11(1) of MCDR 2017.
4c	Number of dumps within lease area and outside of 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 and 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

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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 established.	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.	No Retaining wall & garland drain construction proposals for the year 2022-23	120 metres Retaining wall & 100 metres garland drain constructed along waste dump during year 2022-23. The Retaining wall, garland drain & Plantation details etc have not been provided for the year 2022-23 in the attached PMCP table of Part-I of AR 2022-23 and is not in line with data as submitted to this office vide letter no DNM/ENV/DIOM/11A/2609 dtd 30.06.2023.	Violation issued under Rule 45(7) of MCDR 2017.
4i	Length of Retaining wall or garland drain all along dumps	No Retaining wall & garland drain construction proposals for the year 2022-23	120 metres Retaining wall & 100 metres garland drain constructed along waste dump during year 2022-23. The Retaining wall, garland drain & Plantation details etc have not been provided for the year 2022-23 in the attached PMCP table of Part-I of AR 2022-23 and is not in line with data as submitted to this office vide letter no DNM/ENV/DIOM/11A/2609 dtd 30.06.2023.	Violation issued under Rule 45(7) of MCDR 2017.
4j	Number of settling ponds	No proposal	NIL	NIL

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4k	Specific comments of inspecting officer on waste dump management	i)The 12 m systematic stages/lifts have not been maintained at Backfilling dump (BF-4) between section M-18 to M-21 from 995 to 1030 mRL as per 2022-23 waste dumping proposal. Violation issued under Rule 11(1) of MCDR 2017.	ii)The Retaining wall, garland drain & Plantation details etc have not been provided for the year 2022-23 in the attached PMCP table of Part-I of AR 2022-23 and is not in line with data as submitted to this office vide letter no DNM/ENV/DIOM/11A/2609 dtd 30.06.2023. Violation issued under Rule 45(7) of MCDR 2017.
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Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling proposed for the year 2022-23 in BF-3, Bf-4 & BF-5 backfill dumps.	Separate dumping of OB carried at backfilling dumps BF-3 & BF-4. No waste dumping carried out at BF-5.The 12 m systematic stages/lifts have not been maintained at Backfilling dump (BF-4) between section M-18 to M-21 from 995 to 1030 mRL as per 2022-23 waste dumping proposal.	Violation issued under Rule 11(1) of MCDR 2017.
5b	Area under backfilling of mined out area	51.40 Ha proposed cumulative	42.52 Ha achieved cumulative. Separate dumping of OB carried at backfilling dumps BF-3 & BF-4. No waste dumping carried out at BF-5.The 12 m systematic stages/lifts have not been maintained at Backfilling dump (BF-4) between section M-18 to M-21 from 995 to 1030 mRL as per 2022-23 waste dumping proposal.	Violation issued under Rule 11(1) of MCDR 2017.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NIL	NIL

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5d	Total area fully reclaimed and rehabilitated	No proposal	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The 12 m systematic stages/lifts have not been maintained at Backfilling dump (BF-4) between section M-18 to M-21 from 995 to 1030 mRL as per 2022-23 waste dumping proposal. Violation issued under Rule 11(1) of MCDR 2017.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted before 1st of July Every year.	Annua PMCP report for the year 2022-23 submitted within timeline. The Retaining wall, garland drain & Plantation details etc have not been provided for the year 2022-23 in the attached PMCP table of Part-I of AR 2022-23 and is not in line with data as submitted to this office vide letter noDNM/ENV/DIOM/11A/2609 dtd 30.06.2023.	Violation issued under Rule 45(7) of MCDR 2017.
6b	Area available for rehabilitation (ha) .	5 Ha proposed for afforestation on dump.	4.8 ha afforestation carried out on dump & 1.2 ha on safety zone (Total 6 Ha)	As reported in Annual PMCP report 2022-23.
6c	afforestation done (ha).	5 Ha proposed for afforestation on dump.	4.8 ha afforestation carried out on dump & 1.2 ha on safety zone (Total 6 Ha)	As reported in Annual PMCP report 2022-23.
6d	No. of saplings planted during the year	12000 nos. of saplings plantation proposed	15000 nos. of saplings gap plantation carried out on dump & safety zone	As reported in AR 2022-23.
6e	Cumulative no .of plants	1,74,000 nos. of plants cumulative proposed.	1,35,040 nos. cumulative plants as on 1.04.2023	As reported in AR 2022-23.

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6f	Any other method of rehabilitation	No proposal	NIL	NIL
6g	Cost incurred on watch and care during the year	Rs 54.55 lakhs proposed for afforestation (dump management)	As per proposal	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	51.40 Ha proposed cumulative. (BF-3, BF-4 & BF-5)	42.52 Ha achieved cumulative. Separate dumping of OB carried at backfilling dumps BF-3 & BF-4. No waste dumping carried out at BF-5.The 12 m systematic stages/lifts have not been maintained at Backfilling dump (BF-4) between section M-18 to M-21 from 995 to 1030 mRL as per 2022-23 waste dumping proposal.	Violation issued under Rule 11(1) of MCDR 2017.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	51.40 Ha proposed cumulative. (BF-3, BF-4 & BF-5)	42.52 Ha achieved cumulative. Separate dumping of OB carried at backfilling dumps BF-3 & BF-4. No waste dumping carried out at BF-5.The 12 m systematic stages/lifts have not been maintained at Backfilling dump (BF-4) between section M-18 to M-21 from 995 to 1030 mRL as per 2022-23 waste dumping proposal.	Violation issued under Rule 11(1) of MCDR 2017.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on 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

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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 rehabilitation (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 and 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-22to Feb-23 checked. All parameters within limit.	Parameters which are being Monitored: (Air, Noise, Water (Surface water & Ground water) etc.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		i) The Retaining wall, garland drain & Plantation details etc have not been provided for the year 2022-23 in the attached PMCP table of Part-I of AR 2022-23 and is not in line with data as submitted to this office vide letter no DNM/ENV/DIOM/11A/2609 dtd 30.06.2023.Violation issued under Rule 45(7) of MCDR 2017.	ii) The 12 m systematic stages/lifts have not been maintained at Backfilling dump (BF-4) between section M-18 to M-21 from 995 to 1030 mRL as per 2022-23 waste dumping proposal.Violation issued under Rule 11(1) of MCDR 2017.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Only dry Crushing & Screening proposed	Dry Crushing & Screening carried out.	Crusher-1800 & 750 TPH& Screen-800 & 550 TPH capacity. O/p Size 0 - 10 mm (Fines) 10-40 mm (Lumps)

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Only Dry crushing and screening proposed.	Fines Fe-51-55 % Fe 55-58% Fe 58-60% Fe 60-62% Fe 62-65% Fe 65%& above Lumps Fe 55-58% Fe 58-60% Fe 60-62% Fe 62-65% Fe 65%& above(Production grade range for the year 2022-23)	As reported in AR 2022-23.
7c	Different grade of mineral sorted out at mines.	Only Dry crushing and screening proposed.	Fines Fe-51-55 % Fe 55-58% Fe 58-60% Fe 60-62% Fe 62-65% Fe 65%& above Lumps Fe 55-58% Fe 58-60% Fe 60-62% Fe 62-65% Fe 65%& above (Production grade range for the year 2022-23)	As reported in AR 2022-23.
7d	Any beneficiation process at mines	No proposal	NIL	NIL

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	i)Mineral conservation activities carried out inside the mine as per the proposal. ii)Every holder of a mining lease shall monitor his mining and allied activities as per the template of star rating in the format specified in this behalf by the Indian Bureau of Mines from time to time, and shall submit online its self-assessment report before the 1st day of July every year for the previous financial year, along with the digital images of mining lease area under rule 34A.	In case of non-filing of template as stated in subrule (2), the holder of mining lease shall be liable to pay an amount of ten thousand rupees per day for such delay to the authorized officer of the Indian Bureau of Mines. The SDF template for year 2022-23 has been submitted on 3rd July 2023 which is after the due date. In the instant case the SDF is submitted 2 days late from the due date of submission. Violation issued under Rule 35. (2) & (4B) of MCDR 2017.
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Environment :

Sl.No.	Item	Propasals	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 of OB proposed. (BF-3, BF-4, BF-5 & PD-3). BF-3,4 &5 are backfilling dumps.	Separate dumping of OB carried at backfilling dumps BF-3 & BF-4.No waste dumping carried out at BF-5 & PD-3. The 12 m systematic stages/lifts have not been maintained at Backfilling dump (BF-4) between section M-18 to M-21 from 995 to 1030 mRL as per 2022-23 waste dumping proposal.	Violation issued under Rule 11(1) of MCDR 2017.

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	51.40 Ha proposed cumulative for backfilling by Overburden/waste rock. (BF-3, BF-4 & BF-5)	42.52 Ha achieved cumulative in backfilling by waste. Separate dumping of OB carried at backfilling dumps BF-3 & BF-4. No waste dumping carried out at BF-5. The 12 m systematic stages/lifts have not been maintained at Backfilling dump (BF-4) between section M-18 to M-21 from 995 to 1030 mRL as per 2022-23 waste dumping proposal.	Violation issued under Rule 11(1) of MCDR 2017.
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 and additional plantation done (Rule 41)	1,74,000 nos. of plants cumulative proposed.	1,35,040 nos. cumulative plants as on 1.04.2023	As reported in AR 2022-23.
8g	Survival rate	85% proposed within ML area	85% achieved within ML area	As reported in AR 2022-23.
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: 8 KL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The 12 m systematic stages/lifts have not been maintained at Backfilling dump (BF-4) between section M-18 to M-21 from 995 to 1030 mRL as per 2022-23 waste dumping proposal. Violation issued under Rule 11(1) of MCDR 2017.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to November 2023 on 9/12/2023 ***** A.R. Submitted up to 2022-23 on 30.06.2023	M.R. Submitted up to November 2023 on 9/12/2023 ***** A.R. Submitted up to 2022-23 on 30.06.2023	Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: - Sri S.S Prasad Geologist: - Sri V. Kausha Manager- Sri Anil Kumar	Appears to be correct. Geologist- Dr. D N Subramanyam, DOA- 29.07.2023.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining- 204.71 Ha O/B Dumps- 138.96 Ha Infrastructure & roads-25.72 ha.	The land use (area in ha) as given in Part-I (12) under 12(ii), i.e., Covered under current(O/C) workings have not been reported correctly in accordance with approved land use pattern of the last approved mine plan document dated 16/02/2023.	Violation issued under Rule 45(7) of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	15000 nos. with 85 % survival rate within ML area.	The Retaining wall, garland drain & Plantation details etc have not been provided for the year 2022-23 in the attached PMCP table in Part-I and is not in line with data as submitted to this office vide letter no DNM/ENV/DIOM/11A/2609 dtd 30.06.2023	Violation issued under Rule 45(7) of MCDR 2017.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	12000 tons with avg Fe grade 45 %.	There are no Mineral rejects generation proposal as per the approved document whereas 12000 tonnes of iron ore with average grade 45 % have been reported in Part-V (3) as Mineral Reject which is not correct.	Violation issued under Rule 45(7) of MCDR 2017.

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9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: O/s - 137,437.54 tons, Production - 5,728,776 tons, C/s - 139,570.54 tons Graded Ore O/s- 159,609.21 tons Production- 5,726,643 tons Despatch- 5,760,761.25 tons C/s- 125,490.96 tons.	Appears to be correct	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price:Rs/Ton, Fines Fe-51-55 %- 1790.79 Fe 55-58%- 2852.22 Fe 58-60%- 2993.23 Fe 60-62%- 3038.23 Fe 62-65%- 3093.54 Fe 65%& above- 4742 (Rs/ton) Lumps Fe 55-58%- 3114.38 Fe 58-60%- 3397.14 Fe 60-62%- 3703.07 Fe 62-65%- 4025.13 Fe 65%& above- 4683.33 (Rs/ton) Cost of production: 2087.67 Rs/Ton,	Part-VII: There is error in reported cost per tonne of production since there is error in the reported depreciation cost/ton, which is to be arrived from Part-II A (Capital Structure) & Exploration cost/ton which is arrived from Part-V (1)- Exploration.	Violation issued under Rule 45(7) of MCDR 2017.

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9h	Scrutiny of Annual return on fixed assets	Rs 1893985400 including Land, Industrial, Residential & Plant and machinery.	Part-II A(Capital Structure): The entire land under mine lease is forest, accordingly the value and depreciation under land to be 'Nil/0' & is not reported correctly. The value of fixed asset also needs to be corrected accordingly.	Violation issued under Rule 45(7) of MCDR 2017.
9k	Scrutiny of Annual return on mining machineries	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-11 nos. iv)Drill-152 mm-1 no. 100 mm- 1 no. v)Water tanker-28 KL-3 nos. vi)Dozer- 8 nos. vii)Motor Grader- 3 nos	Appears to be correct	NIL

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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
MCDR17 Rule 11(1)	11/01/2024		MCDR17 Rule 45(7)	11/01/2024	15/02/2024
MCDR17 Rule 35(2)	11/01/2024				
MCDR17 Rule 45(7)(a)	11/01/2024	15/02/2024			

Date :**(SANDEEP KUMAR SINGH)**

Indian Bureau of Mines