

MCDR INSPECTION REPORT (2022-23)

S. N.	Particulars	Details
1	Name of the Mine	Auro Minerals Iron ore Mine
2	Total Lease Area (Ha) with breakup of non-forest and forest land	Forest Area = 32.05 Ha Non-Forest Area = 0 Ha Total Lease Area = 32.05 Ha
3	Mine code	30KAR528002
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/826/2011
5	Name of the lessee, Address, phone, email, and fax number	Minera Steel & Power Private Limited. Prestige - Minera No 6, 3rd Floor, Main Guard Cross Road, Shivajinagar, Bangalore-560001. Phone. No :- 080-25550559 Email :- mkrao@mineragroup.com
6	Village	Kallahalli
7	Taluk/Mandal	Hosapete
8	District	BALLARI
9	Pin code	583201
10	State	KARNATAKA
11	Post office	Hosapete
12	Nearest police station	Hosapete
13	Nearest Railway station	Hosapete
14	Date of Grant of Mining Lease	18-04-2022
15	Date of Execution	18-04-2022
16	Date of opening of Mine	01-09-2022
17	Date of first Renewal, if applicable and its period & expiry	Date of expiry- 17.04.2072
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	T Hanumantha Reddy S/o T P Subbi Reddy, Plot No-21 Near RTO Office, Aishwarya Colony, Bellary Cantonment, Bellary, Karnataka-583104 Mob. No: - 9448993971 Email: - threddy@mineragroup.com Date of Appointment: 14th Feb 2022
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	–
22	Name of the Mines Manager with	Shri M Ramakoteswara Rao.

	Address, phone, email, fax number and date of appointment in mines	16 th ward, Basaveshwara Extension, Hospet 583201. mrk rao@mineragroup.com 9480823455. Date of Appointment :09.06.2022.
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Prasanth Kumar Reddy D B.E Mining Mob no-9482403404. Date of appointment 17.04.2023.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Sandeep B, Geologist Mob no-9738616692. Date of appointment:02.05.2023.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	279/1109/2022/BNG dated 08-06-2022 for the period from 2022-23 to 2026-27
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Iron ore
28	Method of Mining (Opencast, Underground)	Open cast
29	Category (Fully Mechanized, Others or Manual)	Category-A fully Mechanized
30	Captive/ Non captive	Non-captive
31	Date of inspection	06-05-2023
32	Name of accompanying mine officials with designation	1. Shri M. Rama Koteswara Rao-Mines Manager 2. Shri Prasanth Kumar Reddy D-Mining Engineer 3. Shri Sandeep B- Geologist

Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for Geological axis 1 or 2.	08 Boreholes, Total Meterage 686m proposed for	8 nos. of exploratory boreholes with total meterage of	Violation issued under Rule 11(1) of MCDR 2017. Also, the record of the 3 nos. of boreholes drilled during year 2022-23 were not found

		the year 2022-23	686 metres proposed for the year 2022-23 against which only 3 boreholes with total meterage of 212 metres were carried out during year 2022-23.	maintained in "Form-J" as per provision of this rule. Violation issued under Rule 48 of MCDR 2017
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not mentioned	M/s. Minera Steel & Power private Ltd.	The mine started its operation on 1/09/2022 and is further under temporary discontinuance w.e.f 31/01/2023 due to lapse of temporary working permission of road as communicated by the Lessee during inspection.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1- 11.00 Ha G4-21.05 Ha. as per the last approved document.	G1- 11.00 Ha G4-21.05 Ha	Exploration proposals incorporated in the modified mining plan to upgrade entire potentially mineralized area to G-1 in accordance with M(EMC) Rules 2015 & rule 12(4) of MCDR 2017.
1e	Balance reserves as on 01.04.2023	46,13,530 tons of iron ore as on 01-04-2022 (Avg. grade HIO-57.36 % Fe, HSIO-38.14 % Fe)	45,58,530 tons of iron ore as on 01-04-2023 (Avg. grade HIO-57.36 % Fe, HSIO-38.14 % Fe)	After depleting production of 55,000 tons of iron ore for the year 2022-23.
1f	General remarks of inspecting officer on geology, exploration etc.	i) The mine started its operation on 1/09/2022 and is further under temporary discontinuance w.e.f 31/01/2023 due to lapse of temporary working permission of road as communicated by the Lessee during inspection ii) 8 nos. of exploratory boreholes with total meterage of 686 metres proposed for the year 2022-		

		<p>23 against which only 3 boreholes with total meterage of 212 metres were carried out during year 2022-23. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>iii) The record of the 3 nos. of boreholes drilled during year 2022-23 were not found maintained in "Form-J" as per provision of this rule. Violation issued under Rule 48 of MCDR 2017.</p> <p>iv) Exploration proposals incorporated in the modified mining plan to upgrade entire potentially mineralized area to G-1 in accordance with M(EMC) Rules 2015 & rule 12(4) of MCDR 2017.</p>
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Development

S.N	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Development proposed in Sec E-E', F-F' & G-G'	Actual development carried out within the proposed	Nil
2b	Separate benches in topsoil, overburden, and mineral (Rule 15)	Separate benches proposed in OB & mineral. (8 m bench height proposed for both OB & mineral)	Separate benches maintained in overburden and Mineral. (8m bench height maintained in both OB & mineral).	The mine started its operation on 1/09/2022 and is further under temporary discontinuance w.e.f 31/01/2023 due to lapse of temporary working permission of road as communicated by the Lessee during inspection
2c	Stripping ratio or ore to OB ratio	1: 0.37 (In tons) proposed	1: 0.53 (In tons) achieved.	ROM- 55000 Tonnes Waste - 29236 Tonnes~14618 Cum.
2d	Quantity of topsoil generation in m3	No proposal	Nil	Nil
2e	Quantity of overburden generation in m3	15,570 Cum (31,140 Tons)	14618 Cum (29,236 Tons)	The mine started its operation on 1/09/2022 and is further under temporary

				discontinuance w.e.f 31/01/2023 due to lapse of temporary working permission of road.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	<p>i)The plans and sections required under these rules shall be maintained up to date showing also the respective proposal of approved mining plan for various activities pertaining to that year, within three months in case of category 'A' mines as referred to in clause (a) of sub-rule (2) of rule 55. It was observed during inspection that the plans & sections have not been updated and maintained as per the provision of this rule. Violation issued under Rule 31(4) of MCDR 2017.</p> <p>ii) The mine started its operation on 1/09/2022 and is further under temporary discontinuance w.e.f 31/01/2023 due to lapse of temporary working permission of road as communicated by the Lessee during inspection.</p>		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1 pit proposed for production	Actual working carried out in one pit	Nil
3b	Quantity of ROM mineral production proposed	83,961 tons ROM Proposed for production.	55000 tons ROM production achieved	The mine started its operation on 1/09/2022 and is further under temporary discontinuance w.e.f 31/01/2023 due to lapse of temporary working permission
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 / Mechanized method adopted for segregating from ROM	Mechanized Method (Only Crushing & Screening)	Mechanized Method (Only Crushing & Screening)	Crushing and Screening done with Plant Capacity of 150TPH.
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 proposed.	Drilling & blasting carried out. DTH drilling of 115 mm dia. & Slurry explosives in conjunction with detonators.	Drill-115 mm-1 no. Slurry Explosives.
3k	Provision of mining machineries in mineral benches	Mining Machineries proposed.	Excavator- 1.5 Cum- 2 nos. Wheel Loader- 2.5 Cum- 1 no. Tipper-10 Cum-4 nos. Water tanker- 8KL- 1no.	As reported by the Lessee during inspection.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8m bench height proposed for both mineral & OB.	8m bench height maintained for both mineral & OB.	Nil
3m	Total area covered under excavation/pits	13.4 Ha as on 31.03.2023.	10.9 Ha	The Land use as per the updated survey have been incorporated in the modified

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				mining plan.
3n	Ore to OB ratio for the pit/mine during the year	1: 0.37 (In tons) proposed	1: 0.53 (In tons) achieved.	ROM- 55000 Tonnes Waste - 29236 Tonnes~14618 Cum.
3o	Total area put in use under different heads at the end of year	Mining: 13.4 ha Waste dump: 12.44 Infrastructure & roads: 0.37 ha (As on 31.03.2023)	Mining: 10.9 ha Waste dump: 13.53 ha Infrastructure & roads: 1.01 ha	The Land use as per the updated survey have been incorporated in the modified mining plan.
3p	Production of ROM mineral during last five-year period, as applicable	2022-23: 83,961 (In tonnes)	2022-23: 55,000 (In tonnes)	The mine started its operation on 1/09/2022 and is further under temporary discontinuance w.e.f 31/01/2023 due to lapse of temporary working permission
3q	General remarks of inspecting officer on method of mining etc.	The mine started its operation on 1/09/2022 and is further under temporary discontinuance w.e.f 31/01/2023 due to lapse of temporary working permission of road as communicated by the Lessee during inspection.		

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 (AD-1 Waste dump)	Separate dumping of OB carried out at AD-1 waste dump.	The id of the active dump AD-1 has been changed to PD-1 in line with R&R plan in the modified mining plan.
4b	Location of OB & dump.	N1682409 to N1682506 & E654243 to E654366	Waste dumping carried out within the proposed	AD-1/PD-1 waste dump.

			extent as per proposal	
4c	Number of dumps within lease area and outside lease area	Total 6 waste dumps within Lease: 4 dead dumps (ID-1, ID-2, ID-3, ID-4) & 2 Active dumps (AD-1/PD-1 & BF-1)	Total 6 waste dumps within Lease: 4 dead dumps (ID-1, ID-2, ID-3, ID-4) & 2 Active dumps (AD-1/PD-1 & BF-1)	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Portion of ID-2 within UPL, AD-1/PD-1 outside UPL.	Portion of ID-2 within UPL, AD-1/PD-1 outside UPL.	As per the current exploration data.
4e	Number of active & alive dumps	2 active dumps (AD-1/PD-1 & BF-1)	2 active dumps (AD-1/PD-1 & BF-1)	The id of the active dump AD-1 has been changed to PD-1 in line with R&R plan in the modified mining plan.
4f	Number of dead dumps	4 - Dead dumps (ID-1, ID-2, ID-3, ID-4)	4 - Dead dumps (ID-1, ID-2, ID-3, ID-4)	Nil
4g	Number of dumps stabilized	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	425 m of Retaining wall & 440 m of Garland drain Proposed along dump AD-1	The construction of 425 m Retaining Wall & 440 m garland drain were proposed along Waste dump AD-1 for the year 2022-23 against which no work has been carried out.	Violation issued under Rule 11(1) of MCDR 2017.
4i	Length of Retaining wall or	425 m of	The	Violation issued

	garland drain all along dump	Retaining wall & 440 m of Garland drain Proposed along dump AD-1	construction of 425 m Retaining Wall & 440 m garland drain were proposed along Waste dump AD-1 for the year 2022-23 against which no work has been carried out.	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 construction of 425 m Retaining Wall & 440 m garland drain were proposed along Waste dump AD-1 for the year 2022-23 against which no work has been carried out. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>ii) The mine started its operation on 1/09/2022 and is further under temporary discontinuance w.e.f 31/01/2023 due to lapse of temporary working permission of road as communicated by the Lessee during inspection.</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	No proposal	Nil	Nil
5b	Area under backfilling of mined out area	No proposal	Nil	Nil
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	No Backfilling proposals for the year 2022-23.		

Progressive Mine Closure Plan

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S.N.	Item	Proposals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	To be submitted before 1 st of July every year.	Yet be submitted on date of inspection	Nil
6b	Area available for rehabilitation (ha)	0.17 has afforestation proposed in safety zone.	The plantation proposals of 430 nos. have been proposed in 0.17 ha of the safety zone for the year 2022-23 against which no plantation has been carried out.	Violation issued under Rule 11(1) of MCDR 2017.
6c	Afforestation done (ha)	0.17 has afforestation proposed in safety zone.	The plantation proposals of 430 nos. have been proposed in 0.17 ha of the safety zone for the year 2022-23 against which no plantation has been carried out.	Violation issued under Rule 11(1) of MCDR 2017.
6d	No. of saplings planted during the year	430 nos. of saplings plantation proposed	The plantation proposals of 430 nos. have been proposed in 0.17 ha of the safety zone for the year 2022-23 against which no plantation has been carried out.	Violation issued under Rule 11(1) of MCDR 2017.
6e	Cumulative no. of plants	Not mentioned	The plantation proposals of 430 nos. have been proposed in 0.17 ha of the safety zone for the year 2022-23 against which no plantation has been carried out.	Violation issued under Rule 11(1) of MCDR 2017.
6f	Any other specific method of rehabilitation	No Proposal	Nil	Nil
6g	Cost incurred on watch & care during the year	Rs 50,000/- proposed for plantation in safety zone.	The plantation proposals of 430 nos. have been proposed in 0.17 ha of the safety zone for the year 2022-23 against which no plantation has been carried out.	Violation issued under Rule 11(1) of MCDR 2017.
6h	Compliance on	No Proposal	Nil	Nil

	reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)			
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)	Environment monitoring proposed in buffer zone and core Zone.	Environmental monitoring carried out. Environmental Monitoring report of March-23(Air, Water, Noise, Soil) checked	Nil

			during inspection. Parameters within limit.	
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	<p>i) The construction of 425 m Retaining Wall & 440 m garland drain were proposed along Waste dump AD-1 for the year 2022-23 against which no work has been carried out. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>ii) The plantation proposals of 430 nos. have been proposed in 0.17 ha of the safety zone for the year 2022-23 against which no plantation has been carried out. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>iii) The mine started its operation on 1/09/2022 and is further under temporary discontinuance w.e.f 31/01/2023 due to lapse of temporary working permission of road as communicated by the Lessee during inspection.</p>		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Only dry crushing & Screening Proposed	Crushing Plant -150TPH, Screening Plant 200TPH	Nil
7b	Method of grade-wise mineral sorting i.e., manual, or mechanical	Only dry crushing & screening proposed.	Lumps 55-58% Fe, 58-60% Fe. Fines 51-55 % Fe. 55-58% Fe 58-60% Fe	Dry Crushing and Screening Method Product Size: 0-10mm 10-40mm.
7c	Different grade of mineral sorted out at mines	Only dry crushing & screening proposed.	Lumps 55-58% Fe, 58-60% Fe. Fines 51-55 % Fe. 55-58% Fe 58-60% Fe	Dry Crushing and Screening Method Product Size: 0-10mm 10-40mm.
7d	Any beneficiation process at mines	No Proposal	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation	The mine started its operation on 1/09/2022 and is further under temporary discontinuance w.e.f 31/01/2023 due to lapse of temporary working		

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	&beneficiation issues	permission of road as communicated by the Lessee during inspection.
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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)	OB generated proposed to be dumped at waste dump AD-1/PD-1	OB generated dumped at waste dump AD-1/PD-1	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	Nil
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)	No Proposal	Nil	Nil
8g	Survival rate	60% proposed within lease area.	The plantation proposals of 430 nos. have been proposed in 0.17 ha of the safety zone for the year 2022-23 against which no plantation has been carried out.	Violation issued under Rule 11(1) of MCDR 2017.

8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on roads to control airborne dust	Water sprinkling is carried out to control airborne dust with 8 KL, 1 no of water sprinkler	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The plantation proposals of 430 nos. have been proposed in 0.17 ha of the safety zone for the year 2022-23 against which no plantation has been carried out. Violation issued under Rule 11(1) of MCDR 2017.		
Compliance of Rule 45				
S. N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to April-2023 on 06.04.2023. ***** A.R for the year 2022-23 yet to be submitted on date of inspection.		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	AR 2022-23 yet to be submitted on date of inspection	AR 2022-23 yet to be submitted on date of inspection	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AR 2022-23 yet to be submitted on date of inspection	AR 2022-23 yet to be submitted on date of inspection	Nil
9d	Scrutiny of Annual return on afforestation	AR 2022-23 yet to be submitted on date of inspection	AR 2022-23 yet to be submitted on date of inspection	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	AR 2022-23 yet to be submitted on date of inspection	AR 2022-23 yet to be submitted on date of inspection	Nil

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9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR 2022-23 yet to be submitted on date of inspection	AR 2022-23 yet to be submitted on date of inspection	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	AR 2022-23 yet to be submitted on date of inspection	AR 2022-23 yet to be submitted on date of inspection	Nil
9i	Scrutiny of Annual return on fixed assets	AR 2022-23 yet to be submitted on date of inspection	AR 2022-23 yet to be submitted on date of inspection	Nil
9k	Scrutiny of Annual return on mining machineries	AR 2022-23 yet to be submitted on date of inspection	AR 2022-23 yet to be submitted on date of inspection	Nil
