

I/30515/2024

**MCDR inspection REPORT**

**Goa regional office**

**Mine file No :** KAR/BGK/Fe-10

**Mine code :** 30KAR26001

- (i) Name of the Inspecting : **K07** ) **KRISHNENDU CHATTERJEE**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/SHRI. SURESH BANOTH, MM & ME AND NARAYANA S PANCHA  
Official with  
Designation
- (iv) Date of Inspection : 22-MAR-24
- (v) Prev.inspection date : 28-MAY-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **AMINAGAD ARIHANT MINERALS**
- (b) **Registration NO.** : **IBM/5563/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :  
State : KARNATAKA  
District : BAGALKOT  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. : 08351-270207  
E-mail : arihantminerals79@yahoo.coi  
Phone : 08351-270207
- (f) Police Station : AMINGAD
- (g) First opening date : 28-JUN-10
- (h) Weekly day of rest : SUN
2. Address for : Behind Ayurvedic Hospital, ILKAL  
correspondance Taluka-Hunagundi, Dist- Bagalkot  
Karnataka-587125
3. (a) Lease Number : KAR1658
- (b) Lease area : 4.86
- (c) Period of lease : 20
- (d) Date of Expiry : 27-JUN-30
4. Mineral worked : IRON ORE Main

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## 5. Name and Address of the

Lessee : RAVI SANGAPPA SARDESAI  
EXTENSION AREA BAGALKOT  
BAGALKOT KARNATAKA  
Phone:9448090383  
FAX :

Owner : RAVI SANGAPPA SARDESAI  
BAGALKOT KARNATAKA  
Phone:  
FAX :

## Mining Engineer

Name : SHRI. SURESH BANOTH, Full Time  
Qualification : B.E. (MINING)  
Appointment/ : 18-DEC-21  
Termination date

## Geologist

Name : SHRI. NARAYANA S.PANCHGAVI, Part Time  
Qualification : M.SC (APPLIED GEOLOGY)  
Appointment/ : 01-MAY-23  
Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 05-JAN-07  
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 18-MAY-15  
MP review under 17(1) MCR 2016 24-FEB-20

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## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2 nos. of DTH holes proposed in 2022-23.	Nil during 2022-23.	04 nos. of DTH boreholes drilled in Sept. 2023
1b	Exploration over lease area for geological axis 1 or 2	G1 proposed	G1: 4.86 Ha.	Entire ML is covered under G1 stage of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	By lessee	Nil during 2022-23	Exploration cost incurred in 2023-24 was Rs. 39,240/-
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 proposed over the mineralized areas.	G1 achieved	
1e	Balance reserve as on 01/04/20		53,500 tonnes of Iron Ore; average quality: +45 to 55% Fe.	As on 01.04.2023
1f	General remarks of inspecting officers on geology, exploration etc			Total, 14 nos. of boreholes have been drilled in the ML area so far; entire mineralized area is explored under G1 stage of exploration.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	From section nos. C-C' to section Nos. F-F'	No change in development area.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in ore proposed.	Separate benches in ore are maintained.	
2c	Stripping ratio or ore to OB ratio	1: 0.21	1: 0.19	

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2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	2080 m3	1858 m3	Waste B.D: 2.8 tonnes/m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Low grade, float ore mining operation; depth of the mineralization is varying from 4 to 6m. Ore is being recovered through mechanical screening and sorting.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed	Single pit.	Mining and allied activities were found restricted within the working Pit.
3b	Quantity of ROM mineral production proposed	27,000 tonnes of ROM proposed.	26,500 tonnes ROM production reported in 2022-23.	
3c	Recovery of sailable/usable mineral from ROM production	80% proposed.	81% recovery achieved during 2022-23.	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable.	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Not applicable.	

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3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed	Mechanised mine	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	No proposal	Nil	Float Iron ore mining operation is being carried out.
3k	Provision of mining machineries in mineral benches	Proposed with hydraulic excavators and dumpers combination.	Hydraulic excavators and dumpers combination adopted.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 m bench height proposed.	Bench height of 3m is found maintained.	
3m	Total area covered under excavation/pits	3.02 Ha. proposed in the approved RMP at the end of F.Y. 2024- 25.	2.85 Ha. at the end of F.Y 2022-23.	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.21	1:0.19	
3o	Total area put in use under different heads at the end of year	Area under mining: 2. 25 Ha. Road and Infrastructure : 0.50 Ha. Mineral storage: 0.27 Ha.	Area under mining: 2.70 Ha. Road and Infrastructure: 0.05 Ha. Mineral storage: 0.10 Ha.	Actual land utilization is mentioned as per the submitted AR 2022-23. Proposals are given as per the approved RMP, at the end of F.Y. 2024-25

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3p	Production of ROM mineral during the last five year period as applicable	2018-19: 30,000 2019-20: 30,000 2020-21: 28,900 2021-22: 29,000 2022-23: 27,000 (in tonnes)	2018-19: 29,000 2019-20: 14,000 2020-21: 28,500 2021-22: 28,900 2022-23: 26,500 (in tonnes)
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3q	General remarks of inspecting officers on method of mining etc.	Mechanised method of mining was observed as per approved RMP proposal. Depth of working pit was only 5 to 6m.
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## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Concurrent Backfilling of mined out areas proposed.	Waste Dumps were found build up within the pit.	Violation of rule 11(1) issued dated 03.04.2024
4b	Location of topsoil, OB and mineral reject dumps	No proposal	BHQ dump: near boundary pillar nos. A and H. Waste Fines dump: Near boundary pillar F	2 nos. of waste dumps constructed.
4c	Number of dumps within lease area and outside of lease area	No proposal within or outside the ML area.	02 nos. of dumps within ML. Nil outside ML.	One dump for BHQ boulders and another dump was for waste fines.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Dumps were located within UPL	
4e	Number of active and alive dumps.	No proposal	02 nos. of active dumps.	
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Retaining wall and garland drains were not constructed along the periphery of the dumps.	Violation of rule 11(1) issued dated 03.04.2024

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4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not constructed.
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management		Concurrent backfilling of exhausted part of pit was proposed. But during inspection it was observed that two nos. of dumps (one for BHQ boulders and another one for waste fines) were constructed at undesignated areas. No environment protective measures, like construction of retaining wall and garland drain were found undertaken by the lessee to secure the dumps. Violation of rule 11(1) issued dated 03.04.2024.

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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.	Concurrent backfilling of exhausted part of pit was proposed	Backfilling was not carried out as proposed.	Surface dumping of waste was found to be carried out.
5b	Area under backfilling of mined out area	0.27 Ha. upto F.Y. 2024-25	Around 0.005 Ha. so far.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Waste disposal by concurrent backfilling of exhausted part of pit was proposed during 2022-23 but surface dumping of waste was carried out within the working pit. Violation of rule 11(1) issued dated 03.04.2024.
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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).	Proposed.	Annual report on PMCP submitted for F.Y. 2022-23.	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.20 Ha. proposed.	0.20 Ha. within ML area.	
6d	No. of saplings planted during the year	200 nos.	200 nos. within the ML area.	
6e	Cumulative no .of plants	Not specified.	Apprx. 800 nos. within ML area.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Rs. 25,000/- during 2022-23.	Rs. 25,000/- as reported in the annual report on PMCP.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable	



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6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodic monitoring Proposed.	Environmental monitoring is carried out periodically and parameters are found within stipulated limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		PMCP compliance & progressive closure operations are found to be carried out as per the approved proposals.

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**Mineral Conservation:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting	Grade wise sorting of ROM	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical process proposed	Mechanical Crushing & Screening of ROM.	
7c	Different grade of mineral sorted out at mines.	Proposed for all +45% Fe.	51% to below 55% Fe	As per submitted annual return of F.Y 2022-23.
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Dry Crushing & Screening is being carried out within the lease area. 3049.950 tonnes of Iron Ore Lumps (51% to below 55% Fe) despatch reported during F.Y 2022-23.	

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	ML area is devoid of any top soil	
8b	Concurrent use or storage of topsoil	No proposal	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Separate dumping of waste has been carried out.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed during conceptual stage.	Not applicable as of now.	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	Plantation was carried along the ML boundary.	Apprx. 800 nos. of plantation carried out within ML area.
8g	Survival rate	70 to 80% proposed.	60 to 70%.	
8h	Water sprinkling on roads to control airborne dust	Proposed by using water tanker.	water tankers arrangement for water sprinkling on mine roads have been made.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty around the mining lease area is good. No environment protective measures, like construction of retaining wall and garland drain were found undertaken by the lessee to secure the waste dumps. Violation of rule 11(1) issued dated 03.04.2024.	

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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 March 2024 & A.R. Submitted up to 2022-2023	Annual Return of 2022-23 submitted on 24.06.2023.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer: Shri Suresh Banoth Geologist: Shri V. Venkateshwara Rao	Manager & Mining Engineer: Shri Suresh Banoth Geologist: Shri Narayana S Panchagavi	Notice of appointments in respect of Mining Engineer and Geologist are submitted as per MCDR-2017 provision.

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining: 2.70 Ha. Road and Infrastructure : 0.05 Ha. Mineral storage: 0.10 Ha.	Actual was also same at that time.
9d	Scrutiny of Annual return on afforestation	200 nos.	200 nos. within the ML area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No proposal	No mineral reject generation reported during 2022-23.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: 7,290 tonnes. Graded ore closing Stocks for LUMPS 51% to 55% Fe: 1.43 tonnes. Graded ore closing Stocks for FINES: Nil	Actual was also same at that time
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex- Mine prices for LUMPS 51% to 55% Fe: Rs. 2179/tonne. Production Cost: Rs. 1756.48/ tonne	Some of the invoices were checked during inspection and sale value given was found correct.
9h	Scrutiny of Annual return on fixed assets	Closing balance of the fixed assets is reposted as Rs. 57,42,305/-	Closing balance and estimated market values of fixed assets are mentioned in the AR.
9k	Scrutiny of Annual return on mining machineries	Back Hoe: 1 no. Dumper: 2 nos. Water Tanker: 1 no. Crusher: 1 no.	No change.

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	03-APR-24			

**Date :****(KRISHNENDU CHATTERJEE)**

Indian Bureau of Mines