INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT AND REGULATION DIVISION

MCDR inspection REPORT

Goa regional office

Mine file No : KAR/BGK/Fe-10 **Mine code : 30KAR26001**

(i) Name of the Inspecting Officer and ID No. : **SP01) SURESH PRASAD**

(ii) Designation : Deputy Controller Mines

(iii) Accompaning mine Official with Designation : Shri B.S. Varma. Mines Manager

(iv) Date of Inspection : 04-SEP-21

(v) Prev.inspection date : 06-OCT-20

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.co
Phone : 08351-270207

(f) Police Station : AMINGAD

(g) First opening date : 28-JUN-10

(h) Weekly day of rest : SUN

2. Address for correspondance : Behind Ayurvedic Hospital,ILKAL
Taluka-Hunagundi,Dist- Bagalkot
Karnataka-587125

3. (a) Lease Number : KAR1658
(b) Lease area : 4.85
(c) Period of lease : 20
(d) Date of Expiry : 27-JUN-30

4. Mineral worked : IRON ORE Main

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. Basavaraj,Full Time
Qualification	:	B.E. (MINING ENGINEERING)
Appointment/ Termination date	:	01-JUL-20

Geologist

Name	:	Mr.Manjunath Paltekar,Full Time
Qualification	:	M.sc (Applied Geology)
Appointment/ Termination date	:	01-SEP-18

6. Date of approval of Mining Plan/Scheme of Mining :

Fresh under rule 22 MCR1960	05-JAN-07
Mining Scheme rule 12 MCDR1988	18-MAY-15
MP review under 17(1) MCR 2016	24-FEB-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	4 no's DTH of 20 Meters each	4No's DTH of 20 Meters each	Deposit is float in nature, however, to understand more clarity in depth of the material. Proposal of 12 nos. of DTHs holes were proposed in the plan period. Of which 04 nos. of the year 2020-21 reported as carried out.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		By lessee	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Deposit is float in nature, However, to understand more clarity in depth of the material. Proposal of 12 nos. of DTHs holes were proposed in the current plan period. Of which 04 nos. of the year 2020-21 reported as carried out.	Deposit is float in nature, However, to understand more clarity in depth of the material. Proposal of 12 nos. of DTHs holes were proposed in the plan period. Of which 04 nos. of the year 2020-21 reported as carried out.	Small area of float deposit of iron ore mine. Most paart has explored by trench pits of 16 nos. as reported in the plan.
1e	Balance reserve as on 01/04/20	As per the approved RUMP:-140400 te	As on 1.4.2021(AR 2021):-108900 te.	Grade:- 45-55% Fe

1f	General remarks of inspecting officers on geology, exploration etc	Deposit is float in nature, however, to understand more clarity in depth of the material. Proposal of 12 nos. of DTHs holes were proposed in the current plan period. Of which 04 nos. of the year 2020-21 reported as carried out.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	G - G' To J - J'	G - G' To J - J'	Small area of float deposit of iron ore mine.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	N.A	N.A	Small area of float deposit of iron ore mine. With 3-4 m average depth.
2c	Stripping ratio or ore to OB ratio	1:0.21	1:0.21(As per AR te:te)	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	6200te	6000te	Used for backfilling.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The deposit is low grade float ore being recovered through sorting & screening.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	

3b	Quantity of ROM mineral production proposed	28900te	28500 te	
3c	Recovery of sailable/usable mineral from ROM production	Recovery of sailable/usable mineral from ROM production is 100%	100% reported	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable.	THV: - 45% Fe
3f	Quantity of sub grade mineral generation.	Nil	Not applicable.	
3g	Grade of sub grade mineral generation	No proposal	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical	Mechanical	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable	
3j	Provision of drilling and blasting in mineral benches	No proposal	Nil	
3k	Provision of mining machineries in mineral benches	Small capacity equipments, HEMM VOLVO - 0.9MM	HEMM VOLVO - 0.9MM	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	4mtr height of benches are proposed	Height of benches are maintained as proposed	
3m	Total area covered under excavation/pits	As in approved RUMP period 2.52 5Ha	As per AR 2.52 Ha	

3n	Ore to OB ratio for the pit/mine during the year.	1:0.21	1:0.21
3o	Total area put in use under different heads at the end of year	2.52 Ha Plant & Road 0.49 Ha	2.52 Ha Plant & Road 0.440 ha
3p	Production of ROM mineral during the last five year period as applicable	In tonnes 2016-17 - 29999 2017-18 - 29999 2018-19 - 29999 2019-20 - 29999 2020-21 - 29999	In tonnes 19500 20000 29000 14000 28500
3q	General remarks of inspecting officers on method of mining etc.		Opencast working in float ore is being carried out with small capacity machineries.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil Nil OB was Proposed & for Back Filling	Top soil Nil OB being used for Back Filling	
4b	Location of topsoil, OB and mineral reject dumps	Mineral reject :-nil N. 1776119 - 1776124 E. 597658 - 597665	Nil	Small quantity of generation of OB in float ore mining. OB being used for Back Filling
4c	Number of dumps within lease area and outside of lease area	Lease area = 0 Non-Lease area = 0	Lease area = 0 Non-Lease area = 0	OB being used for Back Filling
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	Float ore Mining. OB being used for Back Filling
4e	Number of active and alive dumps.	Nil	Nil	Float ore Mining. OB being used for Back Filling

4f	Number of dead dumps.	Nil	Nil	Float ore Mining. OB being used for Back Filling
4g	Number of dumps established.	Nil	Nil	Float ore Mining. OB being used for Back Filling
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	Float ore Mining. OB being used for Back Filling
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management		Small quantity of generation of OB in float ore mining. No specific dump were formed. OB being used for Back Filling.	

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.	Float ore Mining. OB being used for Back Filling	Float ore Mining. OB being used for Back Filling	
5b	Area under backfilling of mined out area	0.1 ha	0.1 ha	Float ore Mining. OB being used for Back Filling the area.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Float ore Mining. OB being used for Back Filling the area as proposed in the latest approved RMP.

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).	On or Before 1st July	Submitted on 05/08/2021	
6b	Area available for rehabilitation (ha) .	N.A.	N.A.	
6c	afforestation done (ha).	0.10 Ha	0.10 Ha	
6d	No. of saplings planted during the year	200 nos.	200 nos.	
6e	Cumulative no .of plants	1200 nos.	1500 nos.	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Rs 25000	Rs 25000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring of core and buffer zone	Monitoring of core and buffer zone being carried out and are within the limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Small capacity mines of float ore deposit. No R&R are proposed/ achieved except plantation along the safety barriers of width 7.5m are observed under progress.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise	Grade wise	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Lump ore of Below 55 % Fe and 55-58% Fe contents.	Lump ore of Below 55 % Fe and 55-58% Fe contents.	
7d	Any beneficiation process at mines .	No proposal	Nil except dry screening	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Dry screening with manual sorting and sizing is being carried out within the lease area.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	No top soil
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	Partly used for Road Repair/ backfilling
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	0.0334 Ha	0.0334 Ha	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	N. A	N. A	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1200 Plants	1500 Plants	Plantation along the safety barriers of 7.5 mtr width & on backfilling.
8g	Survival rate	75%	75%	
8h	Water sprinkling on roads to control airborne dust	Water tanker using for sprinkling of water to control airborne dust	Water tanker using for sprinkling of water to control airborne dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Green belt development is observed along the 7.5 mtr of lease boundary. Aesthetic beauty observed around the mines office premises.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR Submitted up to = July 2021 AR Submitted up to = 2020- 2021	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager: Shri B.S. Varma. Mining Engineer: Shri Basavaraj	Mines Manager: Shri B.S. Varma. Mining Engineer: Shri Basavaraj	However, geologist was not present during the inspection causing some health problem.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C 2.52 Ha Plants & Road 0.440 Future use 1.900 Back Filling 0.003	O/C 2.52 Ha Plants 0.440 Future use 1.900 Backfilling 0.003	

9d	Scrutiny of Annual return on afforestation	100 No's	100 No's	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Nil Grade wise Closing Balance 5576.21 Tons (Below 55% Grade)	ROM Nil Grade wise Closing Balance 5576.21 Tons (Below 55% Grade)	Observed during inspection.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine Price Lumps Below 55%Fe Rs 1988.00/T Production Cast 1399.62 Rs/T	Sample invoice checked	Found in order.
9h	Scrutiny of Annual return on fixed assets	Net closing value 8,80,000/-	Net closing value 8,80,000/-	
9k	Scrutiny of Annual return on mining machineries		Shovel - 01 nos- 09 CUM capacity Tipper 02 nos. Crusher 30TPH	

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

Date :

(**SURESH PRASAD**)

Indian Bureau of Mines