

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/Fe-2/GOA

Mine code : 30KAR05001

- (i) Name of the Inspecting : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : **SHRI. PRAKASH Y. MINES MANAGER**
Official with
Designation
- (iv) Date of Inspection : 04-SEP-21
- (v) Prev.inspection date : 08-DEC-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HIREMAGI S. AIHOLLE**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : KARNATAKA
District : BAGALKOT
Village : HIREMAGI
Taluka : HUNAGUND
Post office : HIREMAGI
Pin Code : 587112
FAX No. : 08351-787740
E-mail : hrmines@doddanavarbrothers
Phone : 08351-787740
- (f) Police Station :
- (g) First opening date : 01-JUL-80
- (h) Weekly day of rest : SAT
2. Address for : Doddannavar Brothers
correspondance Corporate House,Opp Hotel Ksemainn,
Near 3rd Railway Gate, Khanapur Road, Belgaum
3. (a) Lease Number : KAR0265
(b) Lease area : 45.3
(c) Period of lease : 20
(d) Date of Expiry : 04-JUN-00
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : DODDANAVAR BROTHERS
 Corporate House, Opp Hotel
 Ksemainn Near 3rd Railway
 Gate, Khanapur Road,
 BELGAUM KARNATAKA
 Phone: 0831-2466727
 FAX : 0831-2403401

Owner : PUSHPADANT PARISAPPA DODDANNAWAR
 Corporate House, Opp Hotel
 Ksemainn Near 3rd Railway
 Gate, Khanapur Road BELGAUM
 KARNATAKA
 Phone: 0831-2466727
 FAX : 0831-2403401

Agent : RACHAPPA MALLAPPA SARADAGI
 General Manager (Mines)
 Doddanavar Brothers At-
 Hiremagi, Tq-Hungund
 BAGALKOT KARNATAKA
 Phone: +919845739350, 08351-287740
 FAX : 08351-280125

Manager
 Name : Y PRAKASH
 Qualification : Dip. In Mining Eng. and II Class Mines M
 Appointment/ : 01-SEP-15
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	16-MAR-00
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	03-DEC-04
	:	Mining Scheme rule 12 MCDR1988	28-OCT-05
	:	Modif.approved Mining Scheme	09-JUN-09
	:	Renewal under rule 24 MCR1960	26-OCT-10
	:	Mining Scheme rule 12 MCDR1988	29-APR-15
	:	MP modif under 17(3) MCR 2016	10-AUG-18
	:	MP review under 17(1) MCR 2016	29-JAN-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	6 nos.	6 nos. (215m)	6 Bore holes reported completed
1b	Exploration over lease area for geological axis 1 or 2	Geological Axis 1 or 2	6 Bore holes reported completed	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		V & S Enterprise, Amingad, KA 12 Lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	15.525 Million MT	Mineral Reserve 111 - 2.153 mill te (Hemt. Ore) & 8.332 mill. Te (Hemt. Siliceous ore)	As on 01/09/2019, As per approved Review & updation of mining plan, dtd. 29.01.2020
1f	General remarks of inspecting officers on geology, exploration etc			Exploration proposal has been ratified & updated in approved Review & updation of mining plan, dtd.29.01.2020.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North & south Pit	North & south Pit	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches for OB proposed	Separate benches for OB maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.580	1:0.7156	
2d	Quantity of topsoil generation in m3	Not proposed	Nil	

2e Quantity of overburden generation in m3 351158 Tons 154800 Tons

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc Mineral Deposit of the mine is low grade and highly disturbed & fractured. Further, Height of Benches was not maintained at per the proposal at places. Hence, violation issued.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02Nos. North & South Pit	02 Nos. North & South Pit.	
3b	Quantity of ROM mineral production proposed	600000 MT	216300 MT	MT- Matric Tonnes
3c	Recovery of sailable/usable mineral from ROM production	90%	70%	Ore Fe contents (45 to 55 Grade)
3d	Quantity of mineral reject generation	406343 MT	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	35 -45% Grade	Below 35 -45% Grade	Low Grade BHQ Below 35%,
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Proposed	Yes carried out.	
3j	Provision of drilling and blasting in mineral benches	Proposed	Yes	
3k	Provision of mining machineries in mineral benches	Proposed	Yes as per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Formation of systematic benches with 6 m height and width of 8 m.	Bench geometry and pit designs for systematic and scientific mining as proposed are not maintained at places.	Violation issued.
3m	Total area covered under excavation/pits		22.75Ha	As per AR 2020-21
3n	Ore to OB ratio for the pit/mine during the year.	1:0.580	1:0.7156	
3o	Total area put in use under different heads at the end of year	Mining - 22.75Ha Road - 1.600Ha Dump - 1.100 Ha Others -4.88Ha	Mining - 22.98Ha Road - 1.600Ha Dump - 1.100 Ha Others- 4.88Ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17- 5 Lakh 2017-18- 5 Lakh 2018-19- 6 Lakh 2019-20- 6 Lakh 2020-21-6 Lakh	2016-17 186200 2017-18 235500 2018-19 480500 2019-20 256100 2020-21 216300	ROM (te) production figure is given as mentioned in approved Mining Plan (MMP &RMP) and Annual Return submitted for

3q	General remarks of inspecting officers on method of mining etc.	Mechanized open cast method of mining being followed with shovel dumper combination. Bench geometry and pit designs for systematic and scientific mining as proposed are not maintained at places. Hence, violation issued.
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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)	Proposed	Yes	
4b	Location of topsoil, OB and mineral reject dumps	Near to pillar Nos 9 & 10	Near to pillar 10	Nos 9 & 10 Waste dump
4c	Number of dumps within lease area and outside of lease area	Lease area = 1 Non-Lease area = 0	Lease area = 1 Non-Lease area = 0	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	E 596800 & E597000 N 1775700 & N1775500	E 596800 & E597000 N 1775700 & N1775500	BETWEEN BOUNDARY PILLER NO: 9 & 10
4e	Number of active and alive dumps.	One no.	One no.	
4f	Number of dead dumps.	Two nos.	Two nos.	
4g	Number of dumps established.	One no.	One no.	
4h	Whether Retaining wall or garland drain all along dumps are there.	200m*1m*1.5m	350m*1m*1.5m	
4i	Length of Retaining wall or garland drain all along dumps	200m*1m*1.5m	230m*1m*1.5m	
4j	Number of settling ponds	No proposal	Nil	

4k	Specific comments of inspecting officer on waste dump management	Mineral Deposit of the mine is low grade and highly disturbed & fractured. Waste materials are observed to be dumped as proposed.
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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.	No proposal During the assessment year 2020-21	Nil	Mineral not exhausted fully.
5b	Area under backfilling of mined out area	No proposal During the assessment year 2020-21	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal During the assessment year 2020-21	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal During the assessment year 2020-21	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal was given in approved MP for backfilling/ reclamation during 2020-21. As mineral is not exhausted fully.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed	Submitted	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	No proposal	1.5 Ha.	
6d	No. of saplings planted during the year	2000 Nos. of sapling	2865 Nos. of sapling	
6e	Cumulative no .of plants		Total No. of sapling 33,120Nos.	Planted along Haul Road, Lease Boundary, Slope of inactive Dump
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	Rs. 20,000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Conducted Environmental monitoring (core zone & buffer zone)	Observed
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Area is not matured for backfilling. Observed plantation along Haul Road, Lease Boundary, Slope of inactive Dump.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting	Grade wise sorting	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	

7c	Different grade of mineral sorted out at mines.	Yes	Yes	Fe : 52%-55%
7d	Any beneficiation process at mines	Yes	Yes	One beneficiation plant erected outside lease area
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Dry Crushing & Screening being carried out within lease area.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
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)		3400 nos. plantation carried out	Cumulative 33120 Nos.
8g	Survival rate	70% - 80%	70% - 80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by Water tanker	Water sprinkling being carried out by water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mines area is good.

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 2020-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mine Engineer & Geologist.	Mining Engineer appointed.	Violation issued for notice of appointment of full time Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land Covered under Mining-22.75 Ha Waste Disposal-1.100 Ha Infrastructure /Road-1.600Ha Other -4.88 Ha	Land Covered under Mining-22.75 Ha Waste Disposal-1.100 Ha Infrastructure /Road-1.600Ha Other -4.88 Ha	
9d	Scrutiny of Annual return on afforestation	WITH IN LEASE- 3250 NOS, OUTSIDE LEASE- 3500 NOS.	WITH IN LEASE- 3250 NOS, OUTSIDE LEASE-3500 NOS.	As per AR 2020-21

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Proposal was given in approved MMP.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Balance ROM- 517657.320 MT Graded Ore :- Lumps-Below 55% Fe- 19402.103MT Fines below 55% Fe:- 87400.879MT	Observed in field	MT- Matric tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price Lumps-2236.12 Rs/T Fines- 981.00Rs/T Production Cost-898/ Rs/T	Sample invoice checked	Found in order
9h	Scrutiny of Annual return on fixed assets	Mentioned in AR	Rs. 192962925.05/-	
9k	Scrutiny of Annual return on mining machineries	Back Hoe-04 Front End Loader-3 Dumper-10	Back Hoe-04 Front End Loader-3 Dumper-10	

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)	16-SEP-21			
MCDR17	Rule 31(4)	16-SEP-21			
MCDR17	Rule 45(7)(a)	16-SEP-21			
MCDR17	Rule 55(1)(3)	16-SEP-21			28-SEP-21

Date :

(SURESH PRASAD)

Indian Bureau of Mines