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MCDR inspection REPORT

Goa regional office

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

Mine code : 30KAR05001

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/Shri Amit Goli- Manager, Surendra Gouda BV-ME
Official with
Designation
- (iv) Date of Inspection : 24-AUG-23
- (v) Prev.inspection date : 12-DEC-22

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

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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

Mining Engineer

Name : SHRI. SURENDRA GOUDA B.V.,Full Time
 Qualification : DIPLOMA IN MINING ENGINEERING
 Appointment/ : 01-AUG-23
 Termination date

Geologist

Name : SHRI. M.ABDUL KADAR,Full Time
 Qualification : M.SC (GEOLOGY)
 Appointment/ : 01-AUG-23
 Termination date

Manager

Name : SHRI. AMIT GHOO LI
 Qualification : B.TECH
 Appointment/ : 08-JUN-23
 Termination date

Manager

Name : Y PRAKASH
 Qualification : Dip. In Mining Eng. and II Class Mines M
 Appointment/ : 01-SEP-15 08-JUL-23
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Renewal under rule 22 MCR1960 16-MAR-00
 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

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	4 nos. in F.Y 2022-23; meterage of 172m	
1b	Exploration over lease area for geological axis 1 or 2	G1 proposed	G1: 23.15 Ha. Non-mineralized: 7.18 Ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	By lessee	By lessee. Expenditure reported: Rs. 974,070/-	
1e	Balance reserve as on 01/04/20		9.51 million tonnes of Iron Ore; average quality: +35 to 58% Fe.	As on 01.04.2023
1f	General remarks of inspecting officers on geology, exploration etc			Total, 63 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	597100 to 597200E 1776600 to 1776700N	597100 to 597200E 1776630 to 1776700N	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and ore proposed.	Separate benches in OB and ore are maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.70	1:0.64	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	188,033 m3	111,360 m3	B.D 2.0 tonnes/m3

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Striping ratio is found maintained as per records. Development of mine pit was found as per approved document.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 Nos. North & South Pit	02 Nos. North & South Pit	
3b	Quantity of ROM mineral production proposed	0.60 million tonnes of ROM (Iron Ore 0.079 million tonnes and 0.52 million tonnes of mineral reject)	0.348 million tonnes of ROM (Iron Ore 0.061 million tonnes and 0.287 million tonnes of mineral reject)	
3c	Recovery of sailable/usable mineral from ROM production	100% proposed.	100% recovery achieved during 2022-23.	Blending of mineral reject with Iron Ore.
3d	Quantity of mineral reject generation	0.52 million	0.287 million tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	35 to 45% Fe	39% Fe	
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 method	Mechanised method	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	

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3j	Provision of drilling and blasting in mineral benches	Proposed to drill by deep hole driller and blasting using slurry explosive.	No change. Dia: 112 mm.	Wagon Drill of 112 mm used for drilling and Slurry explosive and Milli second detonators (Control Blasting) have been used for blasting.
3k	Provision of mining machineries in mineral benches	Proposed with hydraulic excavators, rock breaker and dumpers.	Hydraulic excavators, rock breaker and dumpers combination adopted.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 m bench height proposed.	Bench height of 5 to 6m is found maintained.	
3m	Total area covered under excavation/pits	23.65 Ha. proposed in the approved RMP at the end of F.Y. 2024-25.	23.10 Ha. at the end of F.Y 2022-23.	Actual pit extent is mentioned as per the AR 2022-23.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.70	1:0.64	
3o	Total area put in use under different heads at the end of year	Area under mining: 23.65 Ha. Waste Dump: 1.52 Ha. Road and Infrastructure : 1.22 Ha.	Area under mining: 23.10 Ha. Waste Dump: 1.30 Ha. Road and Infrastructure: 1.40 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. 2025-26
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 0.59 2019-20: 0.60 2020-21: 0.60 2021-22: 0.60 2022-23:0.60 (in million tonnes Limestone)	2018-19: 0.480 2019-20: 0.256 2020-21: 0.216 2021-22: 0.313 2022-23:0.348 (in million tonnes Limestone)	
3q	General remarks of inspecting officers on method of mining etc.			Mechanised method of mining is observed as per approved RMP proposal.

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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)	Separate dumping of mineral reject and OB proposed.	Mineral reject and OB are separately stacked	
4b	Location of topsoil, OB and mineral reject dumps	Waste dump has been proposed at the S-W corner of ML area near to BP-Nos 9 & 10	Waste dump is located near to BP-Nos 9 & 10	Mineral reject stack is located near BP-7.
4c	Number of dumps within lease area and outside of lease area	1 no. waste dump proposed within ML area.	No change.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL proposed.	Located outside UPL	
4e	Number of active and alive dumps.	01 no. of active dumps proposed	01 no. of active dump	
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.	Proposed.	Retaining wall and garland drains constructed along the periphery of the dump.	
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall: 100m proposed. Garland drain: 50m proposed.	Retaining wall: 800m constructed Garland drain: 80m constructed.	
4j	Number of settling ponds	1 no. proposed	4 nos. constructed so far.	
4k	Specific comments of inspecting officer on waste dump management			Dumping of the OB and mineral reject is found as per proposal.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	Nil as the mine pit was not matured for backfilling.	
5b	Area under backfilling of mined out area	No proposal	Nil	
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	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine pit was not matured for backfilling since mineral persists at the bottom of mine workings.

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	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.05 Ha. proposed.	0.07 Ha. along the safety zone areas.	
6d	No. of saplings planted during the year	1500 nos.	2065 nos. within the ML area.	
6e	Cumulative no .of plants	Not specified.	Apprx. 12000 nos. within ML area.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Rs. 50,000/-	Rs. 1.2 lakhs as stated by the management representatives.	

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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
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

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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

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 of ROM	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical process proposed	Mechanical process for Crushing & Screening. Sorting Manual as well as Mechanical	
7c	Different grade of mineral sorted out at mines.	Proposed for +35% to below 45% Fe and +45 Fe	Below 45% Fe; 45% to 51% Fe, 51% to 55% Fe and 55 to 58% Fe.	As per submitted annual return of F.Y 2022-23.
7d	Any beneficiation process at mines .	No proposal	Nil	Beneficiation plant has been installed adjacent to the ML area for improvement of grade of the ore.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Dry Crushing & Screening 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	Top soil not generated in the year 2021 22.	

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8b	Concurrent use or storage of topsoil	No proposal.	ML area is devoid of any top soil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of Mineral Reject and OB proposed.	Separate dumping of mineral reject and OB 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.	
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 is carried along the ML boundary.	Apprx. 12000 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 area is good. Mine development is found as per approved document. Plantation is observed in the barrier zone and around the lease area.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Feb 2024 & A.R. Submitted up to 2022-2023	Annual Return of 2022-23 submitted on 22.06.2023.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri Prakash Y. Mining Engineer: Shri Amit Goli Geologist: Shri Nagraj Rao	Manager: Shri Amit Goli Mining Engineer: Shri Surendra Gouda BV Geologist: Md. Abdul Khader	Notice of appointments in respect of Manager, Mining Engineer and Geologist are submitted as per MCDR-2017 provision.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining: 23.10 Ha. Waste Dump: 1.30 Ha. Road and Infrastructure : 1.40 Ha.	No change.	
9d	Scrutiny of Annual return on afforestation	2065 nos.	2065 nos. within the ML area.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	287,200 tonnes	Mineral reject stacked near BP-7.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: 732248.32 tonnes. Graded ore closing Stocks for LUMPS 45% to 51% Fe: 9500 tonnes. 51% to 55% Fe: 42346.46 tonnes. Graded ore closing Stocks for FINES 45% to 51% Fe:10500 tonnes. 51% to 55% Fe: 59489.1 tonnes. 55% to 58% Fe: 5341.86 tonnes.	Actual was also same at that time.	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex- Mine prices for LUMPS 45% to 51% Fe: Rs. 1507/ tonne; 51% to 55% Fe: Rs. 2432.22/tonne. Ex- Mine prices for FINES 45% to 51% Fe: Rs. 839/ tonne; 51% to 55% Fe: Rs. 1245/tonne; 55% to 58% Fe: Rs. 1530.85/ tonne Production Cost: Rs. 833/ 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. 200173,844/-	Mentioned in the AR.
9k	Scrutiny of Annual return on mining machineries	Loader: 2 nos. Back Hoe: 3 nos. Dumper: 10 nos. Water Tanker: 1 no. Air Compressor: 1 no.	Mentioned in the AR.

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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

Date :**(KRISHNENDU CHATTERJEE)**

Indian Bureau of Mines