

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-67/GOA

Mine code : 38KAR26049

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/Shri Annayya G. Hugar-Lessee Rep, S. Kalyani, M.E
Official with
Designation
- (iv) Date of Inspection : 30-JUN-22
- (v) Prev.inspection date : 15-OCT-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NAGANPUR(ML2400)**
- (b) **Registration NO.** : **IBM/6703/2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BAGALKOT**
- Village : **NAGANPUR**
- Taluka : **MUDHOL**
- Post office :
- Pin Code :
- FAX No. : **08350-240158**
- E-mail : **praveenhugar82@gmail.com**
- Phone : **08350-340087, 9980730797(M**
- (f) **Police Station** : **Lokapur**
- (g) **First opening date** : **11-JUN-03**
- (h) **Weekly day of rest** : **TUE**
2. **Address for** : **M/s Shri Annadanesh Mines, Near Jaineswar Math**
correspondance **Po-Lokapur-587122**
Tq-Mudhol, Dist-Bagalkot
3. (a) **Lease Number** : **KAR1358**
- (b) **Lease area** : **3.12**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **22-MAY-23**
4. **Mineral worked** : **DOLOMITE** **Associated**
LIMESTONE **Main**

5. Name and Address of the

Lessee : GURUNATH B. HUGAR
 NEAR JAINESWAR MATH P.O.
 LOKAOUR TALUKA-MUDHOL
 BAGALKOT KARNATAKA
 Phone:
 FAX :

Owner : GURUNATH B.HUGAR
 SHRI ANNADANESH MINES NEAR
 JAINESWAR MATH PO-LOKAPUR,
 TQ-MUDHOL BAGALKOT
 KARNATAKA
 Phone: 08350-240087
 FAX :

Mining Engineer

Name : Shri Shivaprasad Kalyani, Full Time
 Qualification : Diploma-Mining Engineering
 Appointment/ : 01-NOV-21
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	26-MAR-03
Plan/Scheme of Mining		Modif.of approved Mining Plan	05-DEC-05
		Mining Scheme rule 12 MCDR1988	17-MAR-10
		Mining Scheme rule 12 MCDR1988	08-AUG-13
		MP modif under 17(3) MCR 2016	10-MAY-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2 nos. of boreholes proposed during the approved plan period ending 2022-23.	Nil.	Approved plan period not completed so far; lessee advised to complete the exploration as per approved proposals within F.Y. 2022-23.
1b	Exploration over lease area for geological axis 1 or 2	G1 proposed	G1: 2.63 Ha. G3: 0.49 Ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1	G1: 2.63 Ha.	84% of the ML area is explored under G1 stage.
1e	Balance reserve as on 01/04/20		0.918 million tonnes of Limestone (UNFC Cat. 111)	As on 01.04.2022
1f	General remarks of inspecting officers on geology, exploration etc			2.63 Ha. of the ML area was explored by the lessee under G1 level by drilling with 6 nos. of core boreholes drilled during 2015-16.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1788750 N to 1788920 N, E 537530 E to 537670 E	1788750 N to 1788920 N, E 537530 E to 537670 E	No change
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in ore proposed.	Separate benches in ore maintained.	No OB benches; waste is mainly consists of intercalated waste within ROM.
2c	Stripping ratio or ore to OB ratio	1:0.29	1:0.19	

2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	7016 m3	1240 m3	BD 2.0 tonne/m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			There is no change in the development location w.r.t. the approved proposals; only 1240m3 of waste is removed during 2021-22 against proposal of 7016m3

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed.	Single pit.	Dimension of pit: 200m x 80m x 20m.
3b	Quantity of ROM mineral production proposed	60,000 tonnes of Limestone proposed during 2021-22	12,800 tonnes.	
3c	Recovery of sailable/usable mineral from ROM production	71% recovery proposed	81% recovery acheived.	29% intercalated waste within ROM has been envisaged.
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	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized mining proposed.	Mechanized mining operation	

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	Proposed to drill by jack hammer and blasting using slurry and UNFO	No change	
3k	Provision of mining machineries in mineral benches	Excavator: 1 no. Tipper: 2 nos. Jack Hammers: 2 nos. Compressor: 1 no.	Excavator: 1 no. Tipper: 1 no. Jack Hammers: 1 no. Compressor: 1 no.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m bench height proposed.	Average height of benches are 5 to 6m.	
3m	Total area covered under excavation/pits	2.1 Ha. at the end of F.Y 2022-23.	1.68 Ha.	Actual pit extent is mentioned as per the AR 2021-22.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.29	1:0.19	
3o	Total area put in use under different heads at the end of year	Area under mining: 2.1 Ha. Dump: 0.20 Ha. Infrastructure & Road: 0.64 Ha.	Area under mining: 1.68 Ha. Dump: 0.10 Ha. Infrastructure & Road: 0.70 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 49,943 2018-19: 30,000 2019-20: 60,000 2020-21: 60,000 2021-22: 60,000 (in tonnes)	2017-18: 28,000 2018-19: Nil 2019-20: 5,500 2020-21: 4,600 2021-22: 12,800 (in tonnes)	

3q	General remarks of inspecting officers on method of mining etc.	As stated by the lessee representative, production during 2021-22 was less than proposal due to low market demand.
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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 to construct safety bund along the ML boundary and temporary dumping.	Waste disposed for construction of safety bund along the ML boundary and for temporary dumping.	
4b	Location of topsoil, OB and mineral reject dumps	Temporary waste dumping proposed along NE side of ML area.	Part of the waste found temporarily dumped at NE side of the ML area.	
4c	Number of dumps within lease area and outside of lease area	1no. of waste dump	1 no. of small temporary waste dump.	Located NE side of the ML area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed within UPL	Temporary dump was located within UPL	
4e	Number of active and alive dumps.	01 active dump proposed	01 active dump	Temporary waste 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.	Safety bund proposed.	Safety bund constructed along the dump.	
4i	Length of Retaining wall or garland drain all along dumps	116m retaining wall/safety bund proposed.	116m bund constructed along the ML boundary and dumping area.	
4j	Number of settling ponds	No proposal	Nil	

4k	Specific comments of inspecting officer on waste dump management			Waste disposed for construction of safety bund along the ML boundary and for temporary dumping located at NE side of the ML area. Safety bund is constructed along the temporary waste dump.
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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	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)	Concurrent use of top soil proposed.	No top soil generation	
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.	Submitted for F.Y. 2021-22 on dated 26.06.2022.	

6b	Area available for rehabilitation (ha) .	No proposal	Nil
6c	afforestation done (ha).	0.10 Ha. during 2021-22.	So far 0.30 Ha. along the 7.5m safety barrier area.
6d	No. of saplings planted during the year	100 nos.	100 nos.
6e	Cumulative no .of plants	600 nos. up to 2021-22	Apprx. 800 nos. within ML.
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	Rs.5,000/-	No change
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	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out periodically basis and parameters are found within stipulated limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The mine is working in small scale and therefore impact on environment is negligible.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed after sizing and sorting.	ROM dispatch after manual sizing and sorting.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sizing and sorting proposed.	Manual	
7c	Different grade of mineral sorted out at mines.	Proposed for all +35% CaO.	BF and Cement grade Limestone dispatch reported during 2021-22.	
7d	Any beneficiation process at mines	No proposal	Nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	7002 tonnes of BF grade and 3684.5 tonnes of Cement grade Limestone dispatched is reported from the mine during 2021-22.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed.	No top soil generation during 2021-22.	Top soil was earlier stacked along the 7.5m safety barrier zone for plantation.
8b	Concurrent use or storage of topsoil	Proposed for afforestation.	Top soil earlier used for plantation along the safety barrier zone.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Temporary dumping proposed for intercalated waste only.	No change.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Mine pit is not matured for backfilling.	
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	Apprx. 800 nos. saplings were planted within ML so far along the safety barrier.	
8g	Survival rate	Not specified.	70 to 80%	

8h	Water sprinkling on roads to control airborne dust	Proposed.	No change.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mines area is good and impact on environment due to mining operation is very less due to small scale mining operation.

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 June. 2022 & A.R. Submitted up to 2021-2022	Annual Return of 2021-22 submitted on 26.06.2022.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri Shivaprasad Kalyani. Geologist: Shri G Rathish George Manager: Shri Shankarayya Jadimath.	No change.	Mining Engineer and Geologist are appointed.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining: 1.68 Ha. Dump: 0.10 Ha. Infrastructure & Road: 0.70 Ha	No change	
9d	Scrutiny of Annual return on afforestation	100 nos.	100 nos. planted	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation during 2021-22	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: Nil Graded ore of BF grade Limestone: 1,511.51 tonnes Cement Grade Limestone: 9,142.27 tonnes.	Actual was also same at that time. 7,002 tonnes of BF grade and 3,684.5 tonnes of Cement grade Limestone dispatched is reported from the mine during 2021-22.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex- Mine Prices for BF grade Limestone: Rs. 343/tonne. Cement Grade Limestone: Rs. 289/tonne. Production Cost: Rs. 265.59/ tonne	Some of the invoices were checked during inspection and sale value given was found correct.	
9h	Scrutiny of Annual return on fixed assets	Net closing balance is furnished as Rs. 250,000/-	Net closing balance and estimated market values have been provided in the AR.	
9k	Scrutiny of Annual return on mining machineries	Excavator: 1 no. Tipper: 1 no. Jack Hammers: 1 no. Compressor: 1 no	Excavator: 1 no. Tipper: 1 no. Jack Hammers: 1 no. Compressor: 1 no	No change

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 27(1)	18-JUL-22			
MCDR17	Rule 34(1)	18-JUL-22			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines