

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-81/GOA

Mine code : 38KAR26063

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : **SHRI. GURURAJ B.UDAPUDI, MANAGER & MINING ENGINEER**
Official with
Designation
- (iv) Date of Inspection : 03-FEB-22
- (v) Prev.inspection date : 14-DEC-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LOKAPUR (ML 2486)**
- (b) **Registration NO.** : **IBM/559/2011**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BAGALKOT
- Village : LOKAPUR
- Taluka : MOUHOL
- Post office :
- Pin Code :
- FAX No. : 08350-243060
- E-mail : lokapurmin2486@gmail.com
- Phone : 08350-243759
- (f) **Police Station** : LOKAPUR
- (g) **First opening date** : 29-APR-05
- (h) **Weekly day of rest** : TUE
2. **Address for** : M/S LOKAPUR MINERAL INDUSTRIES
correspondance At &Po-Lokapur
Tq-Mudhol, Dist-Bagalkot, Karnataka
3. (a) **Lease Number** : KAR0018
- (b) **Lease area** : 90.9
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 22-FEB-01
4. **Mineral worked** : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : B.C.Udapudi
M/sPawan Minerals
P.O.Lokapur Dist.:Bagalkot
BAGALKOT KARNATAKA
Phone:(08350)40060(0),40059(R)
FAX :

Owner : B.C.Udapudi
M/s Pawan Minerals
P.O.Lokapur Dist.:Bagalkot
BAGALKOT KARNATAKA
Phone: 08350-240059(R)
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	20-MAR-01
Plan/Scheme of Mining		Modif.of approved Mining Plan	17-MAY-07
		Mining Scheme rule 12 MCDR1988	26-AUG-11
		MP modif under 17(3) MCR 2016	15-DEC-16
		MP review under 17(1) MCR 2016	27-JAN-21

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal in 2020-21	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1 Proposed	G1: 3.64 Ha. G2: Nil	
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 axis proposed.	G1 achieved.	
1e	Balance reserve as on 01/04/20		0.89 million tonnes of Limestone (UNFC Cat. 111)	As on 01.04.2021. Quality of Limestone +35 to 48.14% CaO.
1f	General remarks of inspecting officers on geology, exploration etc			Entire mineralized 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	1787715 N to 1787860 N, E 540850 E to 540980 E	1787715 N to 1787860 N, E 540850 E to 540980 E	No change
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in ore proposed.	Separate benches in ore maintained.	No separate OB benches; waste is mainly consists of intercalated waste within ROM.
2c	Stripping ratio or ore to OB ratio	1: 0.042 during 2020-21	1: 0.047	
2d	Quantity of topsoil generation in m3	No proposal	Nil	

2e	Quantity of overburden generation in m3	1052 m3	525 m3	BD 2.0 tonne/m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Temporary dumping of waste is proposed at eastern side on the ML boundary; however during the time of inspection it is observed that dumping of waste is carried out at western side of the ML area; violation of rule 11(1) issued dated 15.02.2022.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed.	Single pit	Dimension of pit: 110m x 95m x 10m
3b	Quantity of ROM mineral production proposed	50,000 tonnes of Limestone ROM during 2020-21	22,000 tonnes.	
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	5% intercalated waste within ROM.
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	Manual mining proposed	Manual 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	Proposed to drill by jack hammer and blasting using slurry and UNFO	No change.
3k	Provision of mining machineries in mineral benches	Jack Hammers: 2 Compressor: 1 Water Tanker: 1	Jack Hammer: 1 Compressor: 1 Water Tanker: 1
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m proposed.	Average bench height 3m is maintained
3m	Total area covered under excavation/pits	1.84 Ha.	1.04 Ha.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.042	1: 0.047
3o	Total area put in use under different heads at the end of year	Area under mining: 1.84 Ha. Dump: 0.25 Ha. Road: 0.05 Ha.	Area under mining: 1.04 Ha. Dump: 0.1 Ha. Road: 0.02 Ha.
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 50,000 2017-18: 50,000 2018-19: 50,000 2019-20: 50,000 2020-21: 50,000 (in tonnes)	2016-17: Nil 2017-18: 48,767 2018-19: 28,000 2019-20: Nil 2020-21: 22,000 (in tonnes)

3q	General remarks of inspecting officers on method of mining etc.	As stated by the lessee representative, production during 2020-21 was less than proposal due to low market demand and Covid 19 pandemic.
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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 NE side.	
4b	Location of topsoil, OB and mineral reject dumps	Temporary waste dumping proposed along eastern side of ML area.	Part of the waste found temporarily dumped at western side of the ML area.	Violation of rule 11(1) issued dated 15.02.2022.
4c	Number of dumps within lease area and outside of lease area	One no. of waste dump	One no. of small temporary waste dump.	Located western 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	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.	Top soil bund proposed.	Top soil bund constructed along the dump.	
4i	Length of Retaining wall or garland drain all along dumps	140m top soil bund/ retaining wall proposed during 2020-21.	800m bund constructed along the north eastern side of ML boundary so far.	
4j	Number of settling ponds	No proposal	Nil	

4k	Specific comments of inspecting officer on waste dump management	Temporary dumping of waste is proposed at eastern side on the ML boundary; however during the time of inspection it is observed that dumping of waste is carried out at western side of the ML area; violation of rule 11(1) issued dated 15.02.2022.
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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
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed	Not Submitted for F.Y. 2020-21.	Violation of rule 26(2) was issued to the lessee dated 15/02/22
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.05 Ha. during 2020-21.	So far 0.30 Ha. along north eastern side of ML boundary.	
6d	No. of saplings planted during the year	100 nos.	150 nos.	
6e	Cumulative no .of plants	750 nos. up to 2020-21	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 on half yearly basis and parameters are found within stipulated limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The mine was working manually and 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	Manual sorting and sizing of ROM	
7c	Different grade of mineral sorted out at mines.	Proposed for all +35% CaO.	BF and Cement grade Limestone dispatch reported during 2020-21.	

7d	Any beneficiation process at mines	No Proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			13,538 tonnes of BF grade and 3,814 tonnes of Cement grade Limestone dispatched was reported from the mine during 2020-21.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	No top soil generation during 2020-21.	Top soil was earlier stacked along the 7.5m safety barrier zone for plantation.
8b	Concurrent use or storage of topsoil	Proposed for afforestation.	Nil	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 manual 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 Feb. 2022 & A.R. Submitted up to 2020-2021	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager and Mining Engineer: Shri G.B. Udapudi. Geologist: Nil	Manager and Mining Engineer: Shri G.B. Udapudi. Geologist: Shri Srikant R. Jitta.	Appointment of Geologist in Form I submitted on 15.11.2021.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining: 1.02 Dump: 0.10 Infrastructure and Road: 0.02 (in Ha.)	Area under mining: 1.04 Ha. Dump: 0.10 Ha. Road: 0.02 Ha	
9d	Scrutiny of Annual return on afforestation	150 nos.	150 nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation during 2020-21	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: Nil Graded ore closing Stock of BF grade Limestone: 46,902.95 tonnes Cement Grade Limestone: 2,686.12 tonnes.	Actual was also same at that time. 13,538 tonnes of BF grade and 3,814 tonnes of Cement grade Limestone dispatched is reported form the mine during 2020-21.	Opening stocks of BF grade Limestone was was 44,940.95 tonnes in F.Y. 2020-21.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex- Mine Prices for BF grade Limestone: Rs. 309/tonne. Cement Grade Limestone: Rs. 263/tonne. Production Cost: Rs. 307.80/ 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. 517,670/-	Net closing balance and estimated market values are mentioned in AR.	
9k	Scrutiny of Annual return on mining machineries	Jack Hammer: 1 no. Compressor: 1 no. Water Tanker: 1 no.	Jack Hammer: 1 no. Compressor: 1 no. Water Tanker: 1 no.	

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)	15-FEB-22			
MCDR17	Rule 26(2)	15-FEB-22			
MCDR17	Rule 27(1)	15-FEB-22			
MCDR17	Rule 35(2)	15-FEB-22			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines