

**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. G.B.UDAPUDI, MINING ENGINEER**
Official with
Designation
- (iv) Date of Inspection : 14-DEC-19
- (v) Prev.inspection date : 25-AUG-16

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

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	G1	G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1	G1 achieved.	
1e	Balance reserve as on 01/04/20	No proposal	0.913 million tonnes of Limestone	As on 01.04.2019
1f	General remarks of inspecting officers on geology, exploration etc		6 nos. of core boreholes drilled by the lessee in the ML area 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	No change	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and ore proposed.	Separate benches in OB and ore maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.04	1:0.043	
2d	Quantity of topsoil generation in m3	1050 m3	688 m3	BD 1.6/m3
2e	Quantity of overburden generation in m3	1052 m3	600m3	BD 2.0/m3

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development was carried out as per the approved modifications in mining plan.
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Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed.	Single pit.	Dimension of existing pit: 120m x 100m x 9m
3b	Quantity of ROM mineral production proposed	50,000 tonnes	28,000 tonnes	Production reported during the months of Jan. & Feb. 2019. Production compiled from monthly returns.
3c	Recovery of saleable/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	Manual	
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 height 3m is maintained	
3m	Total area covered under excavation/pits	1.84 Ha.	1.20 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.04	1:0.043	
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: 1.20Ha. Dump: 0.07 Ha. Road: 0.04 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 50,000 2015-16: 50,000 2016-17: 50,000 2017-18: 50,000 2018-19: 50,000 (in tonnes)	2014-15: 43,000 2015-16: 50,000 2016-17: Nil 2017-18: 48,767 2018-19: 28,000 (in tonnes)	Production reported during the months of Jan. & Feb. 2019 for F.Y. 2018-19. Annual Return not submitted for 2018-19.
3q	General remarks of inspecting officers on method of mining etc.		Lessee not submitted A.R for 2018-19, violation of rule 45(5) (c) issued dated 30.12.2019.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of top soil and waste proposed.	Separate dumps maintained for top soil and waste.	
4b	Location of topsoil, OB and mineral reject dumps	Temporary waste dumping proposed along eastern boundary of ML area.	Temporary waste dump located at eastern side.	Top soil was stacked along the 7.5m safety barrier zone for plantation.
4c	Number of dumps within lease area and outside of lease area	1 no. of waste dump	1 no. of waste dump.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed within UPL	Located within UPL	Entire ML area is mineralized.
4e	Number of active and alive dumps.	01 active dump	01 active dump	Temporary waste dumping
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.	250m bund constructed along the north eastern side of ML boundary so far.	
4j	Number of settling ponds	No proposal	Nil	No deviation in respect of dump management was observed during the course of inspection dated 14.12.2019.

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 is 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 is 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	Not submitted for F.Y. 2018-19.	Violation of rule 26(2) issued dated 30.12.2019.
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.05 Ha.	So far 0.25 Ha. along north eastern side of ML boundary.	
6d	No. of saplings planted during the year	100 nos. proposed.	100 nos.	
6e	Cumulative no .of plants	550 nos. up to 2018-19	Apprx. 600 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.		Violation letter issued dated 30.12.2019 for non-submission of Annual report on PMCP for F.Y. 2018-19.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch	ROM dispatch after manual sorting and sizing.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Proposed for all +35% CaO.	No change.	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		No deviation in respect of mineral conservation was observed during the course of inspection dated 14.12.2019.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Top soil was stacked along the 7.5m safety barrier zone for plantation.	Stacked along north eastern side of ML boundary.

8b	Concurrent use or storage of topsoil	Proposed for afforestation.	Top soil used for plantation along the safety barrier zone.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed.	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. 600 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	Water sprinkling on mine roads 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
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9a	Status of submission of Monthly and Annual returns		M.R. Submitted up to Dec. 2019 A.R. Submitted up to 2017-2018	Lessee has not submitted A.R for 2018-19, violation of rule 45(5) (c) issued dated 30.12.2019.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Mining Engineer: Shri G.B. Udupudi. No Geologist was found appointed. Notice of appointment in Form I for mining engineer was not sent to the RCOM, IBM-Goa Office.	Violation of rules 46 & 55(1)(3) issued to the lessee dated 30.12.2019.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	Area under mining: 1.20Ha. Dump: 0.07 Ha. Road: 0.04 Ha.	
9d	Scrutiny of Annual return on afforestation	Nil	100 nos. during 2018-19.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation during 2018-19	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	ROM limestone stock at mines 46,699 tonnes as on Nov. 2019.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Not able to assess since AR not submitted.	
9h	Scrutiny of Annual return on fixed assets	Nil	Not able to assess since AR not submitted	
9k	Scrutiny of Annual return on mining machineries	Nil	Jack Hammer: 1 Compressor: 1 Water Tanker: 1	

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 26(2)	30-DEC-19			
MCDR17	Rule 35(2)	30-DEC-19			
MCDR17	Rule 45(5)(c	30-DEC-19			
MCDR17	Rule 46(a)	30-DEC-19			
MCDR17	Rule 55(1)(3)	30-DEC-19			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines