

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-59/GOA

Mine code : 38KAR26022

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : **SHRI. MAHANTESH UDAPUDI, LESSEE'S SON**
Official with
Designation
- (iv) Date of Inspection : 05-FEB-20
- (v) Prev.inspection date : 22-MAY-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MUDDAPURA (ML 2361)**
- (b) **Registration NO.** : **IBM/559/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : BAGALKOT
- Village : MUDDAPURA
- Taluka : MUDHOL
- Post office : LOKAPUR
- Pin Code : 587122
- FAX No. : 08350-240060
- E-mail : pawanmins2652@gmail.com
- Phone : 0835-340060(O), 340059(R),I
- (f) Police Station : Lokapur
- (g) First opening date : 04-JUL-02
- (h) Weekly day of rest : TUE
2. Address for : Muddapur Limestone Mine of Shri B.C.Udapudi
correspondance At-Muddapur, Tq- Mudhol
Dist-Bagalkot
3. (a) Lease Number : KAR1454
- (b) Lease area : 14.67
- (c) Period of lease : 20
- (d) Date of Expiry : 02-JUL-22
4. Mineral worked : 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 :

Mining Engineer

Name : Guru Raj B.Udapudi,Full Time
Qualification : BE (Mining Engg)
Appointment/ : 01-JUN-14
Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	13-JUN-02
Plan/Scheme of Mining		Modif.of approved Mining Plan	17-NOV-04
		Mining Scheme rule 12 MCDR1988	01-FEB-08
		Mining Scheme rule 12 MCDR1988	02-MAY-12
		Modif.approved Mining Scheme	24-JUN-16
		MP review under 17(1) MCR 2016	08-FEB-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal in 2018-19.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1 stage	G1 stage	
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 proposed.	Entire mineralized area was explored by the lessee under G1 stage.	
1e	Balance reserve as on 01/04/20		5.9 million tonnes	As on 01.04.2019.
1f	General remarks of inspecting officers on geology, exploration etc		Entire mineralized area is explored by the lessee under G1 level by drilling 16 nos. of boreholes in 2015-16.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1994450 to N 1794600, E 535450 to E 535600	No change in development location.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed.	Found to be maintained	
2c	Stripping ratio or ore to OB ratio	1: 0.1	1: 0.12	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	6000 m3	7600 m3	OB waste is mainly consists of intercalated waste; BD 2.0 t/m3.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Working benches in both limestone and dolomite pits were not found to be maintained systematic and scientific manner. Violation of Rule 11(1) issued to the lessee dated 28.02.2020.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed in Limestone	Single pit in limestone.	
3b	Quantity of ROM mineral production proposed	119,984 tonnes	118,000 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	90% proposed	88% recovery acheived.	
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	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal given.	Nil	
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed	Jack hammer drilling and blasting by using slurry and ANFO.	

3k	Provision of mining machineries in mineral benches	Proposed.	Excavator, loader, tipper, rock breakers etc.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5m bench height proposed	Average bench height of 5m maintained	
3m	Total area covered under excavation/pits	4.2 Ha.	4.2 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.1	1: 0.12	15100 tonnes of OB handled during 2018-19.
3o	Total area put in use under different heads at the end of year	10.872 Ha. area proposed upto 2021-22	9.85 Ha. area were utilized under mining upto the year 2018-19.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 120,000 2015-16: 120,000 2016-17: 120,000 2017-18: 119,984 2018-19: 119,984 (in tonnes)	2014-15: 107,000 2015-16: 118,000 2016-17: 118,000 2017-18: 118,000 2018-19: 118,000 (in tonnes)	
3q	General remarks of inspecting officers on method of mining etc.		Working benches in limestone and dolomite pits were found maintained disoriented and zigzag manner. Violation of Rule 11(1) issued to the lessee dated 28.02.2020.	

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 disposal of waste was proposed to construct safety bund along the ML boundary.	Generated waste was utilized to make safety bund along the ML boundary.	No top soil and mineral reject generated during 2018-19
4b	Location of topsoil, OB and mineral reject dumps	OB proposed to make safety bund along the ML boundary.	No change.	Height of the embankment was maintained by 1m
4c	Number of dumps within lease area and outside of lease area	No proposal	No dump located within ML area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not applicable.	
4e	Number of active and alive dumps.	No proposal	No active dump.	
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	No proposal	Not applicable.	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	Generated waste was utilized to make safety bund along the ML boundary.
4i	Length of Retaining wall or garland drain all along dumps	Generated waste was proposed for construction of embankment along the safety barrier.	Embankment along the 7.5m safety barrier was constructed as per proposal.	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management		Generated waste was utilized to make embankment along the 7.5m safety barrier and for repairing of mine haul roads.	

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 such proposal given.	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	Generated top soil utilized for plantation along the ML boundary.
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. 2018-19.	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.33 Ha.	0.33 Ha.	
6d	No. of saplings planted during the year	300 nos.	333 nos. within ML area.	
6e	Cumulative no .of plants	Not specified.	Apprx. 1200 nos. within ML area along the safety barrier.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Rs. 16,650/-	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.	Environment monitoring was carried out on regular basis and parameters were found within permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Compliance of PMCP was 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	ROM dispatch	ROM dispatch after mechanical sorting and sizing.	36726.371 tonnes of BF grade ore was dispatched in the year 2018-19.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized crushing and screening.	Mechanized crushing and screening.	
7c	Different grade of mineral sorted out at mines.	Proposed for all +34% CaO.	Average quality obtained from the mine during 2018-19 was of BF grade limestone.	
7d	Any beneficiation process at mines	No proposal	Nil except dry crushing and screening.	
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 05.02.2020.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal and utilization proposed.	No top soil generation during 2018-19.	

8b	Concurrent use or storage of topsoil	Proposed for afforestation.	Nil during 2018-19.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste not proposed	Generated waste was utilized to make safety bund along the ML boundary.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Mine pit was 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. 1200 nos. saplings were planted within ML so far along the safety barrier.
8g	Survival rate	Not specified.	60 to 70%
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling arrangement on mine haul road made.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty observed in and around mines area was good.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. Submitted up to Jan 2020 A.R. Submitted up to 2018-2019.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil information furnished for mining engineer and Geologist. Manager: Shri Paramoda Kumar	Mining Engineer: Ravishankar R., and Geologist: Natarajan Manager: Shri Paramoda Kumar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining: 7.67 Ha Infrastructure and Road: 2.9 ha. Safety barrier: 2.9 Ha.	Mining: 9.85 Ha Infrastructure and Road: 2.9 ha. Safety barrier: 2.9 Ha.	Lessee advised to correct the mining area as per survey.
9d	Scrutiny of Annual return on afforestation	333 nos. within ML area	No change.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: Nil Graded ore Limestone (BF grade) closing stock: 181,046.211 tonnes	Actual also same at that time, opening stock verified with DMG stock survey report.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price: Rs. 550.50/ tonne Production cost: Rs. 308.60/ tonne	Some of the invoices were checked and sale value given was found correct.	
9h	Scrutiny of Annual return on fixed assets	Rs. 31920,068 /-	Appear to be correct	
9k	Scrutiny of Annual return on mining machineries	Excavators: 2 nos. Tippers: 3 nos. Air Compressor: 2 nos. Water Tanker: 1 no. Crushers: 2 nos.	Actual were also same at the time of inspection.	

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)	28-FEB-20			
MCDR17	Rule 35(2)	28-FEB-20			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines