

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-6/GOA

Mine code : 38KAR26010

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Mahantesh Udapudi, son of the Lessee
Official with
Designation
- (iv) Date of Inspection : 04-FEB-20
- (v) Prev.inspection date : 20-DEC-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HEBBAL (ML 2043)**
- (b) **Registration NO.** : **IBM/559/2011**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BAGALKOT
- Village : HEBBAL
- Taluka : MUDHOL
- Post office : LOKAPUR
- Pin Code : 587122
- FAX No. : 08350240060
- E-mail : pawanmineralslokapur@gmail
- Phone : 08350--240060
- (f) **Police Station** : Mudhol
- (g) **First opening date** : 15-AUG-87
- (h) **Weekly day of rest** : TUE
2. **Address for** : M/s Pawan Minerals
correspondance At-Hebbal-587122
Tq-Mudhol, Diat-Bagalkot
3. (a) **Lease Number** : KAR0138
- (b) **Lease area** : 9.75
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 30-JUL-07
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	:	Mining Scheme rule 12 MCDR1988	08-JAN-03
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	29-DEC-06
		Renewal under rule 24 MCR1960	30-MAY-07
		Mining Scheme rule 12 MCDR1988	17-OCT-13
		MP modif under 17(3) MCR 2016	19-APR-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal.	05 nos. of vertical core boreholes. Depth 30m each.	5 nos. of core boreholes drilled by the lessee during Apr. & May. 2019
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	Geotech Exploration Services, Nagpur. Total Expenditure was Rs. 1,95000/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 proposed.	G1 acheived.	
1e	Balance reserve as on 01/04/20		1.26 million tonnes	As on 01.04.2019.
1f	General remarks of inspecting officers on geology, exploration etc		Entire mineralized area was explored under G1 stage.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1789850 to N1789780, E 537100 to E 537350	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: 0.05	1:0.04	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	810 m3	500 m3	BD 2.0 t/m3

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No deviation in respect of mine development was observed during the course of inspection dated 04.02.2020.
----	---	--

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed	Single pit.	Dimension of existing pit is: 390m x 110m x 22m
3b	Quantity of ROM mineral production proposed	40,000 tonnes	25,000 tonnes	Lessee has not carried out any production and development in F.Y. 2018-19 upto Nov. 2018.
3c	Recovery of sailable/usable mineral from ROM production	95% proposed	96%	
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 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	No proposal	Nil	Manual mining operation
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m bench height proposed	3m bench height 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: 0.05	1: 0.04	
3o	Total area put in use under different heads at the end of year	Mining: 4.2 Ha. Safety barrier: 0.66 Ha.	Mining: 4.2 Ha. Safety barrier: 0.66 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 40,000 2015-16: 40,000 2016-17: 40,000 2017-18: 40,000 2018-19: 40,000 (in tonnes)	2014-15: 42,000 2015-16: 38,000 2016-17: 40,900 2017-18: 30,000 2018-19: 25,000 (in tonnes)	
3q	General remarks of inspecting officers on method of mining etc.		As submitted by the lessee that deviation in mine production during 2018-19 was mainly due to lack of demand of ore in open market.	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of top soil and waste not proposed.	Generated waste was utilized to make embankment along the safety barrier.	No top soil and mineral reject generated during 2018-19

4b	Location of topsoil, OB and mineral reject dumps	OB proposed to make embankment along the safety barrier.	No change.	Height of the embankment was 1m
4c	Number of dumps within lease area and outside of lease area	No proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	
4e	Number of active and alive dumps.	No proposal	No active dump located in the ML area.	
4f	Number of dead dumps.	No proposal	No dead dump located in the ML area.	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dumps	230m of embankment proposed along the safety barrier.	Embankment along ML boundary found to be constructed.	
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 safety barrier and for repairing of mine haul roads.	

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)	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.	Submitted for F.Y. 2018-19 on 31.01.2020.	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.17 Ha.	0.17 Ha.	
6d	No. of saplings planted during the year	150 nos.	175 nos. within ML area.	
6e	Cumulative no .of plants	Not specified.	Apprx. 300 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. 8,750/-	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 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 to be carried out twice a year.	Last season environment monitoring was not carried out by the lessee.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Violation of rule 11(1) issued to the lessee dated 24.02.2020 for not carrying out environment monitoring per conditions stipulated in the approved progressive mine closure plan.
----	---	--

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.	40035.425 tonnes of BF grade ore was despatched in the year 2018-19.
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 +34% CaO.	No change.	Average quality obtained from the mine during 2018-19 was of BF grade limestone.
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 04.02.2020.	

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	

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	Proposed in conceptual stage.	Mine pit is not matured for backfilling at present.
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. 300 nos. saplings were planted within ML so far along the safety barrier.
8g	Survival rate	Not specified.	50 to 60%
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling arrangement on haul road made.
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 manual 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 Jan. 2020 and A.R. Submitted up to 2018-2019	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No information furnished in AR.	No mining engineer and geologist found appointed.	Violation of rule 55(1)(3) issued to the lessee dated 24.02.2020.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mentioned in AR.	Mining: 4.2 Ha. Safety barrier: 0.66 Ha.	Lessee was advised to correct land use pattern as per survey.
9d	Scrutiny of Annual return on afforestation	175 nos. within ML area	No change.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation in 2018-19	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: Nil Graded ore (BF grade) closing stock: 37031.042 tonnes	Actual was also same at that time.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price: Rs. 489.95/ tonne Production cost: Rs. 294.60/ tonne	Appear to be correct.	
9h	Scrutiny of Annual return on fixed assets	Rs. 8219,725/-	Appear to be correct	
9k	Scrutiny of Annual return on mining machineries	01 no. of Air Compressor.	No change, Manual mining operation.	

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	24-FEB-20			
MCDR17	Rule 33	24-FEB-20			
MCDR17	Rule 35(2)	24-FEB-20			
MCDR17	Rule 55(1)(3)	24-FEB-20			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines