

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-48/GOA

Mine code : 38KAR26014

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/SHRI. P.H.PUJAR, LESSEE & K.SHIVARAM, MINES MANAGE
Official with
Designation
- (iv) Date of Inspection : 25-AUG-21
- (v) Prev.inspection date : 07-DEC-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THIMMAPUR(2272)15.641 HA**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BAGALKOT
- Village : THIMMAPUR
- Taluka : MUDHOL
- Post office :
- Pin Code :
- FAX No. : 08354-221027
- E-mail : phpujar@gmail.com
- Phone : 08354-221027
- (f) **Police Station** : LOKAPUR
- (g) **First opening date** : 28-FEB-01
- (h) **Weekly day of rest** : TUE
2. **Address for** : M/s Pavan Putra Minerals
correspondance At-Thimmapur
Po-Muddapur, Tq-Mudhol, Dist-Bagalkot
3. (a) **Lease Number** : KAR1221
- (b) **Lease area** : 15.69
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 18-JUN-20
4. **Mineral worked** : LIMESTONE Main
DOLOMITE Associated

5. Name and Address of the

Lessee : P.H.PUJAR
Bin H.U. Pujar Behind Govt.
Girls High School Ext.
Bagalkot BAGALKOT KARNATAKA
Phone:094481 24027, 221207, 223927
FAX :

Owner : P.H. PUJAR.
M/s Pavan Putra Minerals
Behind Govt. Girls High
School Bagalkot BAGALKOT
KARNATAKA
Phone: 21207, 23927.
FAX :

Agent : GURURAJ KALTI
M/s Pavan Putra Minerals
At-Thimmapur, Po-Muddapur
Tq-Bagalkot BAGALKOT
KARNATAKA
Phone:
FAX :

Mining Engineer

Name : K Shivaram, Full Time
Qualification : B.E.Mining
Appointment/ : 05-MAY-17
Termination date

Geologist

Name : Suresh R. Hegde, Full Time
Qualification : M.SC (APPLIED GEOLOGY)
Appointment/ : 01-JUL-19
Termination date

Geologist

Name : Pratik M. Ugare, Full Time
Qualification : M.Sc (APPLIED GEOLOGY)
Appointment/ : 20-APR-19 30-JUN-19
Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	29-SEP-97
Plan/Scheme of Mining		Modif.of approved Mining Plan	30-JUN-03
		Mining Scheme rule 12 MCDR1988	28-NOV-05
		Mining Scheme rule 12 MCDR1988	29-MAR-11
		Mining Scheme rule 12 MCDR1988	14-MAY-15
		MP modif under 17(3) MCR 2016	01-FEB-17
		MP review under 17(1) MCR 2016	24-JAN-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	8 Core Boreholes proposal in 2020-21.	8 nos. core boreholes drilled during 2020-21. Total meterage drilled 370m, with 46mm diameter.	Notice of exploration in Form-J submitted on 28.01.2021.
1b	Exploration over lease area for geological axis 1 or 2	G1 proposed	G1: 15.64 Ha. G2: Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified.	Exploration agency: Lessee. Expenditure: 5.98 lakhs rupees.	
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		Total reserve: 2.714 million tonnes of Limestone & 3.197 million tonnes of Dolomite. As on 01.04.2021.	Limestone quality: CaO +34% to 49.08% Dolomite quality: MgO +15% to 20.82%.
1f	General remarks of inspecting officers on geology, exploration etc			So far, entire ML area is explored by the lessee under G1 level by drilling with 26 nos. of core boreholes. Total meterage drilled 1042 m.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1791820 N to 1792080 N, E 533800 E to 534140 E	1791820 N to 1792080 N, E 533800 E to 534140 E	No change in location.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in ore proposed.	Separate benches ore maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.14	1: 0.016	Combined for Limestone & Dolomite.

2d	Quantity of topsoil generation in m3	24,572 m3	3,333.3 m3	BD 1.8 tonnes/m3
2e	Quantity of overburden generation in m3	18,394 m3	2,480 m3	BD 2.0 tonnes/m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Stripping ratio during F.Y 2020-21 was proposed to be maintained by 1:0.14; but actual stripping ratio was maintained only by 1: 0.016. Violation of rule 11(1) was issued to the lessee dated 06.09.2021.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two nos. of pits proposed.	Two nos. of pits separately for Limestone and for Dolomite.	Dimension of Dolomite pit: 400m x 150m x 18m & dimension of Limestone pit: 210m x 140m x 15m.
3b	Quantity of ROM mineral production proposed	100,000 tonnes of Limestone & 250,000 tonnes of Dolomite	63,535.5 tonnes of Limestone & 247,800 tonnes of Dolomite	
3c	Recovery of sailable/usable mineral from ROM production	75% recovery of ROM proposed for Limestone. 95% recovery proposed for Dolomite.	98% recovery of ROM during 2020-21.	Combined recovery for Limestone & Dolomite.
3d	Quantity of mineral reject generation	No proposal	2,200 tonnes of Limestone & 2,600 tonnes of Dolomite rejects.	Mineral rejects were separately stocked for future use as blending purpose.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	+34 to 38% CaO in respect of Limestone. +11 to 15% MgO in respect of Dolomite.	As reported by the lessee during inspection.

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	Mechanised	Mechanised 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	Hydraulic Shovel: 3 Nos. Tipper: 6 nos. Compressor: 2 nos. Rock drill: 2 nos.	Hydraulic Shovel: 3 Nos. Tipper: 4 nos. Compressor: 2 nos. Rock drill: 2 nos.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5m bench height proposed.	Average height 5m is maintained	
3m	Total area covered under excavation/pits	11.276 Ha. at the end of F.Y. 2024-25.	8.95 Ha. so far.	As on date of inspection.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.14	1: 0.016	Combined for Limestone & Dolomite.
3o	Total area put in use under different heads at the end of year	Area under mining: 11.27 Ha. Dump: 1.066 Ha. Mineral Storage: 0.5 Ha. Infrastructure s & Road: 0.35 Ha.	Area under mining: 8.95 Ha. Dump: 0.55 Ha. Mineral Storage: 0.5 Ha. Infrastructures & Road: 0.30 Ha.	Proposed utilizations of areas are mentioned as per the approved RMP dated 24.01.2020 (proposed up to the end of F.Y. 2024-25).

3p	Production of ROM mineral during the last five year period as applicable	Limestone: 2016-17: 35,000 2017-18: 150,000 2018-19: 150,000 2019-20: 150,000 2020-21: 100,000 (in tonnes) Dolomite: 2016-17: 100,000 2017-18: 300,000 2018-19: 300,000 2019-20: 300,000 2020-21: 250,000 (in tonnes)	Limestone: 2016-17: 34,821 2017-18: 64,325 2018-19: 116,715 2019-20: 85,980 2020-21: 63,535.5 (in tonnes) Dolomite: 2016-17: 92,178 2017-18: 146,925 2018-19: 218,205 2019-20: 261,985 2020-21: 247,800 (in tonnes)
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3q	General remarks of inspecting officers on method of mining etc.	It was reported by the lessee that due to Covid-19 pandemic and less demand of Limestone in market; Limestone production in 2020-21 was reduced by the lessee.
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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)	Separate dumping and backfilling of OB proposed in F.Y 2020-21 Stacking of top soil proposed along the safety barrier.	OB was used for backfilling and for dumping. Top soil was utilized for construction of bund along the 7.5m safety barrier.	

4b	Location of topsoil, OB and mineral reject dumps	Stacking of top soil proposed along the 7.5m safety barrier. Backfilling of waste was proposed at 50m safety barrier area from public road. Dumping of OB proposed along N 1791940 E 533700.	No changes in top soil stacking location; backfilling and waste dumping locations.	Mineral rejects were stocked separately for future use as blending purpose.
4c	Number of dumps within lease area and outside of lease area	01 no. of dump proposed within ML area.	01 no. dump present within ML area. Nil outside ML	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL proposed.	Located outside the UPL.	
4e	Number of active and alive dumps.	01 no.	01 no.	
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.	Proposed along the active dump.	Constructed as per proposal.	
4i	Length of Retaining wall or garland drain all along dumps	120m retaining wall and 130m garland drain proposed along the toe of the dump.	150m retaining wall & 130m garland drain constructed along the toe of the dump.	
4j	Number of settling ponds	One no.	One no. settling pond constructed near BP-7.	

4k	Specific comments of inspecting officer on waste dump management	4500 tonnes of waste was utilized for backfilling and only 460 tonnes waste was disposed by surface dumping during 2020-21. No deviation in respect of dumping was observed during the course of inspection. Small part of the exhausted dolomite pit (extent 0.20 Ha.); falling within the 50m safety zone from the public road was backfilled during 2020-21 as per the approved RMP proposals.
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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.	Complete extraction of mineral proposed before backfilling.	Mineral extracted before backfilling.	
5b	Area under backfilling of mined out area	0.20 Ha.	0.20 Ha. mined out area backfilled.	
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	Backfilled area yet to be fully reclaimed.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Small part of the exhausted dolomite pit (extent 0.20 Ha.); falling within 50m safety zone of the public road was backfilled during 2020-21 as per the approved RMP proposals.
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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
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) issued to the lessee dated 06/09/21.
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.26 Ha. during 2020-21	0.35 Ha.	
6d	No. of saplings planted during the year	400 nos.	400 nos. within the ML area in 2020-21.	
6e	Cumulative no .of plants	Not specified.	Apprx. 8600 nos. saplings planted along the safety barrier.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Rs.7,500/-	Rs. 21,000/- as reported by the lessee.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.20 Ha.	0.20 Ha. within 50m safety zone from the public road.	Backfilled area yet to be fully reclaimed.

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	Environmental monitoring is carried out periodically and parameters are found within stipulated limit.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Apprx. 8600 nos. saplings were planted along the safety barrier. Violation of rule 26(2) issued to the lessee dated 06.09.21 for non-submission of annual report on PMCP.
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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 & grade wise dispatch after sizing and sorting.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical sizing and sorting.	Mechanical sizing and sorting by crusher.	
7c	Different grade of mineral sorted out at mines.	Proposed for all +34% CaO in respect of Limestone.	Cement grade Limestone dispatch reported during 2020-21. Dolomite dispatch of >15% MgO.	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM/ grade wise mineral being dispatched from the mine after sizing and sorting of ores. 81565.320 tonnes of Cement grade Limestone and 243209.741 tonnes of Dolomite were dispatched form the mine during 2020-21.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization proposed.	Top soil was utilized for plantation along the safety barrier zone.	
8b	Concurrent use or storage of topsoil	Concurrent use proposed.	Used for plantation purpose.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Backfilling and separate dumping for OB/waste proposed.	Backfilling and separate dumping of OB/waste was carried out.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling of mined out pit by OB/ waste proposed.	0.20 Ha. of mined out pit was backfilled.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed during conceptual stage.	Not applicable as of now.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	Apprx. 8600 nos. saplings were planted within ML area.	
8g	Survival rate	Not specified.	70 to 80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water tanker arrangement for water sprinkling on mine roads has been made	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty around the ML area was good.

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 August 2021 & A.R. Submitted up to 2020-2021	Submitted within time limit.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information furnished as Nil.	Manager and Mining Engineer: Shri K. Shivaram. Geologist: Shri Suresh R. Hegde.	Notices of appointments of Mining Engineer and Geologist were given in Form -I. Lessee was advised to correct the AR.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining: 8.95 Ha. Dump: 0.55 Ha. Infrastructure s & Road: 0.10 Ha. Mineral stocks and Plantations: 1.98 Ha.	Area under mining: 8.95 Ha. Dump: 0.55 Ha. Infrastructures & Road: 0.30 Ha. Mineral Stocks: 0.5 Ha.	Area occupied by existing infrastructures & roads furnished incorrectly as 0.1 Ha. in the AR. Violation of Rule 45(7) issued.
9d	Scrutiny of Annual return on afforestation	100 nos.	130 nos. within ML area.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	2,200 tonnes of Limestone & 2,600 tonnes of Dolomite mineral rejects.	2,200 tonnes of Limestone & 2,600 tonnes of Dolomite mineral rejects generated.	+34 to 38% CaO in respect of Limestone reject & +11 to 15% MgO in respect of Dolomite reject; as reported by the lessee.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stocks for Limestone: 4520 tonnes & for Dolomite: 28951 tonnes. Graded ore closing Stock of Cement grade Limestone: 35403.810 tonnes. Graded ore closing Stock of Dolomite: 6746.450 tonnes.	Actual was also same at that time as per mine production and dispatch register.	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex- Mine Price for Cement grade Limestone: Rs. 458/tonne and Ex- Mine Price for Dolomite: Rs. 421/tonne Production Cost: Rs. 262/tonne	Some of the invoices were checked during inspection and sale value given was found correct.	Provisions of paying DMF & NMET are not found included in the Production Cost. Violation of Rule 45(7) issued dated 06.09.2021.
9h	Scrutiny of Annual return on fixed assets	Net closing balance is furnished as Rs. 7661,567/-	Net closing balance and estimated market values are mentioned in AR.	
9k	Scrutiny of Annual return on mining machineries	Hydraulic Shovel: 3 nos. Tipper: 4 nos. Compressor: 2 nos. Rock drill: 2 nos. Water Tanker: 1 no.	No change.	

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)	06-SEP-21			
MCDR17	Rule 26(2)	06-SEP-21			
MCDR17	Rule 35(2)	06-SEP-21			
MCDR17	Rule 45(7)(a)	06-SEP-21			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines