

**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 : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : K. Shivaram. Mine manager & Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 07-DEC-20
- (v) Prev.inspection date : 14-MAR-19

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	Nil	Nil	10 nos. of hole were proposed in the year 2017-18 and 10 BHs were achieved.
1b	Exploration over lease area for geological axis 1 or 2	Entire area covered under G1 or G2 axis	Entire area covered under G1 or G2 axis	08 nos. of additional boreholes has proposed for the year 2020-21 in the approved RMP to know the continuity of the ore body.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal in the year 2019-20	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	Entire area covered under G1 or G2 axis	08 nos. of additional boreholes has proposed for the year 2020-21 in the approved RMP to know the continuity of the ore body.
1e	Balance reserve as on 01/04/20		2,778,053 T of Limestone 3,444,965 T of Dolomite	RMP has approved on 24.01.2020
1f	General remarks of inspecting officers on geology, exploration etc		Entire area is covered under G1 or G2 axis. Further, 08 nos. of additional boreholes has proposed for the year 2020-21 in the approved RMP to know the continuity of the ore body.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	Cross Section= As per proposal B-B' to E-E' Northing= 1791798 to 1792050 Easting = 533772 to 534211		
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No separate benches proposed in overburden and topsoil. All benches are mineral benches, only intercalated.	No separate benches proposed in overburden and topsoil. All are mineral benches only, intercalated waste observed.	
2c	Stripping ratio or ore to OB ratio	1:0.33	1:0.01	
2d	Quantity of topsoil generation in m3	4368 T	1700T	
2e	Quantity of overburden generation in m3	40,000 T	4750 T	Reported that the Rejection are stocked and utilized for bund work and road work
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development is mainly for intercalated waste and quantity observed as less than the proposal quantity. This shows better recovery of ore.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	Each for Limestone and Dolomite
3b	Quantity of ROM mineral production proposed	150,000 T & 300,000 T	85,980 T & 261,985 T	Limestone & Dolomite
3c	Recovery of sailable/usable mineral from ROM production	75% & 95%	90% & 95%	Limestone & Dolomite
3d	Quantity of mineral reject generation	No proposal	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	NIL	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual & Mechanized	Partly Manual & Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	
3j	Provision of drilling and blasting in mineral benches	Deep-Hole Drilling and Blasting with 115mm dia	Deep-Hole Drilling and Blasting with 115mm dia	
3k	Provision of mining machineries in mineral benches	Volvo 210, Kobalco220.	Volvo 210, Kobalco220.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5 m	5 m about	
3m	Total area covered under excavation/pits	8.750 Ha	8.214 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.33	1:0.01	Better recovery of ore.
3o	Total area put in use under different heads at the end of year	11.740 Ha	10.950 Ha	

3p	Production of ROM mineral during the last five year period as applicable	Limestone 2015-16 = 35000 2016-17 = 35000 2017-18 = 150000 2018-19 = 150000 2019-20 = 150000 (Total = 5,20,000 MT) Dolomite 2015-16 = 100000 2016-17 = 100000 2017-18 = 300000 2018-19 = 300000 2019-20 = 300000 (Total = 1100,000 MT)	Limestone 27150 MT 34821 MT 64325 MT 116715 MT 85980 MT (TOTAL =328,991 MT) Dolomite 77250 MT 99729 MT 146925 MT 218205 MT 261985 MT (Total = 804,094 MT)
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3q	General remarks of inspecting officers on method of mining etc.	Mining operation is observed to be carried out by deployment of HEMM (shovel & tipper combinations with deep hole drilling & blasting).
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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)	Yes	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	South-western side of the lease	South-western side of the lease	
4c	Number of dumps within lease area and outside of lease area	Lease area = 0.35 Ha Non Lease area = 0 Ha	Lease area = 0.35 Ha Non Lease area = 0 Ha	
4e	Number of active and alive dumps.	01	01	Small capacity. However, reported that dump is not accumulated in the assessment year 2019-20.

4f	Number of dead dumps.	NIL	NIL
4g	Number of dumps established.	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland Drain	Total Length of all along the buffer zone and around dump are covered.
4i	Length of Retaining wall or garland drain all along dumps	150 m	150 m
4j	Number of settling ponds	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management		Satisfactory. However, the dump formation in the assessment year is observed to be very less.

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	Mineral is not exhausted from the pit.
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		As Mineral is not exhausted from the pit. Thus, backfilling/reclamation is not envisaged.	

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).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	225 nos. for grren belt dev	500 nos	
6d	No. of saplings planted during the year	225 nos	500nos	
6e	Cumulative no .of plants		8200 saplings planted	
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year		Rs 84,000.	As reported by mine manager
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	As Mineral is not exhausted from the pit. Thus, backfilling/reclamation is not envisaged.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	As Mineral is not exhausted from the pit.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation		750nos reported	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Monitering report shown.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise &ROM	Grade wise &ROM	Manual sorting done for the ore we get in contact zone of Limestone and Dolomite within lease
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.		Manual sorting for Dolomatic Limestone	
7c	Different grade of mineral sorted out at mines.	35% to 43% CaO for Limestone 15% to 16% MgO for Dolomite	35% to 43% CaO for Limestone 15% to 16% MgO for Dolomite	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Satisfactory	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Stacking and utilising	Stacking and utilising	
8b	Concurrent use or storage of topsoil	Yes	Yes	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Separate dumps Maintained as per proposal	However, waste generation is very less.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	Nil	Waste land within the lease planted for the aesthetic beauty of surroundings
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	225 plants in 2019-20	1200 Planted (500 inside lease & 700 outside lease)	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Observed, Waste land within the lease planted for the aesthetic beauty of surroundings	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = Nov-2020 AR Submitted up to = 31st March-2020	MR Submitted up to = Nov-2020 AR Submitted up to = 31st March-2020	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME & Geologist appointed.	ME & Geologist appointed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under Pit: 8.215 Ha Dumps: 0.466 Ha Road and others : 0.10Ha Others 2.17 Ha	Under Pit: 8.215 Ha Dumps: 0.466 Ha Road and others : 0.10Ha Others 2.17 Ha	

9d	Scrutiny of Annual return on afforestation	225No's within lease area	500No's within lease area	700 nos. outside the lease reported.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Limestone -13150T Cement Grade-44803.610 te Dolomite - ROM 31035 Te Grade wise-72.19 Te	ROM Limestone -13150T Cement Grade-44803.610 te Dolomite - ROM 31035 Te Grade wise-72.19 Te	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Limestone Ex-mine price : Rs 503/te Dolomite :- Ex-mine price : Rs 410/te Production Cost : 258.60/- Per ton	Limestone Ex-mine price : Rs 503/te Dolomite :- Ex-mine price : Rs 410/te Production Cost : 258.60/- Per ton	Sample invoice checked for dolomite.
9h	Scrutiny of Annual return on fixed assets	Rs. 8139567 /-	Rs. 8139567 /-	
9k	Scrutiny of Annual return on mining machineries	Compressor- 2 No's Drill 02 Backhoe 03 Tipper 03 Water Tanker - 1 No's Wheel loader-01	Compressor- 2 No's Drill 02 Backhoe 03 Tipper 03 Water Tanker - 1 No's Wheel loader-01	

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 35(2)	22-DEC-20	08-FEB-21			
MCDR17	Rule 45(7)(a)	22-DEC-20	08-FEB-21			

Date :

(SURESH PRASAD)

Indian Bureau of Mines