

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri. H.P.Pujar, Lessee Son
Official with
Designation
- (iv) Date of Inspection : 03/09/2016
- (v) Prev.inspection date : 13/10/2014

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 : 28/02/2001
- (h) Weekly day of rest : SUN
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 : 15.64
(c) Period of lease : 20
(d) Date of Expiry : 18/06/2020
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 :

Manager

Name : Shri B.N.Tirveer
 Qualification : S.S.C & Mine foreman certificate holder
 Appointment/ : 01/01/2014
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	29/09/1997
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	30/06/2003
	:	Mining Scheme rule 12 MCDR1988	28/11/2005
	:	Mining Scheme rule 12 MCDR1988	29/03/2011
	:	Mining Scheme rule 12 MCDR1988	14/05/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	8 Boreholes has Proposed	8 Boreholes has drilled during 2015-2016	
1b	Exploration over lease area for geological axis 1 or 2	Geological Axis-1	Geological Axis-2	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	1.5 Lakhs	2.0 Lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	10.00 hecets	10.00 hect	8 Boreholes has proposed in 2016-2017, but not drilled so far
1e	Balance reserve as on 01/04/20	Reserves as on 01/04/2016 Probable (122) = 3257572 Tons Pre-Feasibility (222) = 415326 Tons	Reserves as on 01/04/2016 Probable (122) = 3265419 Tons Pre-Feasibility (222) = 415326 Tons	
1f	General remarks of inspecting officers on geology, exploration etc	Nil	Entire Lease is having same Geology and Mineralogy is changes from place to place. Hence borehole has to be drilled at closer interval to get quantity and quality. Limestone & Dolomite contact Zone is present	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Cross Section E-E' during 2015-2016 & C-C' in 2016-2017.	As per Proposal the development is worked	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no proposals for seperate Benchs	There is no proposals for seperate Benchs	
2c	Stripping ratio or ore to OB ratio	1 : 0.05	1 : 0.05	
2d	Quantity of topsoil generation in m3	388 Tons during 2015-2016 2016-2017 is Nil	1500 Tons during 2015-2016 1000 Tons during 2016-2017	For Constructing the settling tank topsoil has been removed during 2016-2017
2e	Quantity of overburden generation in m3	1417 tons	1000 tons	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	Basic Field Observation are 0.5 to 1.0m Topsoil, upto 12m work out pit for Limestone.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	
3b	Quantity of ROM mineral production proposed	34997 Tons	27150 Tons	
3c	Recovery of sailable/usable mineral from ROM production	95 %	95-97%	
3d	Quantity of mineral reject generation	1417 Tons	1000 Tons	Mineral reject/ OB are same
3e	Grade of mineral rejects generation and threshold value declared.	There is no Mineral Rejects	Nil	

3f	Quantity of sub grade mineral generation.	No Sub Grade Mineral is Generated	Nil	
3g	Grade of sub grade mineral generation	There is no Sub Grade Mineral	There is no Sub Grade Mineral	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual Mine	Manual Mine	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Beneficiation Study has been Carried out	No Beneficiation Study has been Carried out	
3j	Provision of drilling and blasting in mineral benches	Spacing - 1.0m Burden - 0.90m Depth - 1.50m	Spacing - 1.0m Burden - 0.90m Depth - 1.50m	
3k	Provision of mining machineries in mineral benches	L & T Backhoe - 1 Tractor Mounted Compressor - 1 Jack hammer - 2 Excavator - 1 Tippers - 3	L & T Backhoe - 1 Tractor Mounted Compressor - 1 Jack hammer - 2 Excavator - 1 Tippers - 3	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height & Width - 3m	Height & Width - 5-6m	
3m	Total area covered under excavation/pits	5.50 Hect	6.00 hect	Total Area includes Dolomite Pit also
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.05	1 : 0.05	

3o	Total area put in use under different heads at the end of year	Land use Pattern in Hects Mining = 5.500 Topsoil Storage =0.500 Dumping = 0.240 Mineral Stock = 0.125 Office = 0.0250 Roads = 0.200 7.5m Saftey Zone = 1.320 Afforestation = 2.100	Land use Pattern in Hects Mining = 6.000 Topsoil Storage =0.500 Dumping = 0.240 Mineral Stock = 0.125 Office = 0.024 Roads = 0.200 7.5m Saftey Zone = 1.320 Afforestation = 2.100
3p	Production of ROM mineral during the last five year period as applicable	2015-2016 = 34997 Tons 2014-2015 = 35000 Tons 2013-2014 = 35000 Tons 2012-2013 = 35000 Tons 2011-2012 = 35000 Tons	2015-2016 = 27150 Tons 2014-2015 = 10500 Tons 2013-2014 = 11034 Tons 2012-2013 = 27461 Tons 2011-2012 = 10772 Tons
3q	General remarks of inspecting officers on method of mining etc.	Manual working	Manual working

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate Dump for Topsoil & OB	Only for OB dump is formed	

4b	Location of topsoil, OB and mineral reject dumps	Topsoil on Northern Side of Lst Pit inbetween Section Line B & C OB on Safety Barrier to form Bund	No Dump has been form for Topsoil. OB has used on Safety Barrier to form Bund
4c	Number of dumps within lease area and outside of lease area	One dump Proposal inside Lease area	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Topsoil on Northern Side of Lst Pit inbetween Section Line B & C	Nil
4e	Number of active and alive dumps.	One Active Dump	Nil
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	Single	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil
4j	Number of settling ponds	Nil	One Settling pond has constructed on South side of Pit
4k	Specific comments of inspecting officer on waste dump management	Single Dump Proposed	No Dump has been formed

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 Proposal for Backfilling	Backfilled the minedout area in 7.5m Safety Barrier
5b	Area under backfilling of mined out area	Nil	0.10 hect
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Topsoil removed seperately and Dump	Topsoil removed seperately and spreadout on safety Zone for plantation
5d	Total area fully reclaimed and rehabilitated	Nil	0.010 hect has been backfilled
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Proposal for Backfilling	Backfill has done at 7.5m safety barrier

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).	To be submitted before 30th July of Every Year	Not Submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	2.10 hect	2.10 hect	
6d	No. of saplings planted during the year	210 Nos	240 Nos with in Lease area 60 Nos outside Lease area	
6e	Cumulative no .of plants	710 Nos	1220 nos with in Lease area	

6f	Any other method of rehabilitation	No Proposal	Nil
6g	Cost incurred on watch and care during the year	1.00 lakhs	1.25 lakhs
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-annually Survey	Quartely Environmental Monitoring is done by Private Consultant
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	34997 Tons	27150 Tons	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Cao = +47% Sio2= - 4% Mgo = 0.5-5.5%	Cao = +47% Sio2= - 4% Mgo = 0.5-5.5%	
7d	Any beneficiation process at mines .	Manually Sorting and Sizing is Proposed	Manually Sorting and Sizing is done	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Nil
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Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is proposal for seperately remove and utilised of topsoil	Topsoil is used for plantation	
8b	Concurrent use or storage of topsoil	Storage of topsoil	Concurrent Use	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One dump is for Top Soil	No Dump is present	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	At present there is no proposal for restoring.	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	210 - 394/ Years	980 Sapling planted upto 2014-2015 240 Sapling planted in 2015-2016
8g	Survival rate	80%	60%
8h	Water sprinkling on roads to control airborne dust	Water tanker is proposed	Water sprinkling is daily done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	The area is Plan and rocky, degraded with mining

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Submitted within the time limits	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No Mining Engineer, Geologist	Only Mines mate is working as Permit Manager	It recommended to appoint the Mining Engineer, Geologist
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining = 4.955 Hect Waste Dump =0.150 hect Office, Road =0.210 hect Afforestation = 0.325 hect	Mining area has been advance and area has to be increase. During 2015 the waste dump area is 0.240 hect but in AR it is 0.150 with less waste production of 1000 tons only.	
9d	Scrutiny of Annual return on afforestation	240 Nos within Lease area 60 Nos Outside Lease area	During Inspection 300 nos of plantation has been informed.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	8250 Tons Both Limestone & Dolomite	Proposal is 5465 tons for both Limestone & Dolomite
9f	Scrutiny of Annual return on ROM stock and/or graded ore	27150 Tons of Limestone	Production figure are matching
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production = Rs.201/ Ton Ex Mine Price = Rs.70/ Ton	Splitup is matching
9h	Scrutiny of Annual return on fixed assets	Not Given	It is recommended to give fixed assets value on coming AR
9k	Scrutiny of Annual return on mining machineries	Machineries detail given	As available in field

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
Rule 13(1)	21/09/2016				
Rule 23E(2)	21/09/2016				
Rule 27(4)	21/09/2016				
Rule 42(1)(b)(ii)	21/09/2016				
Rule 63	21/09/2016				

Date :

(G. S. KANNAN)

Indian Bureau of Mines