

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **K04**) **DR. Y.G.KALE**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : S/SHRI. GURURAJ B. UDAPUDI, M.E. & G.S.N. MURTHY, OWN
Official with
Designation
- (iv) Date of Inspection : 26/08/2016
- (v) Prev.inspection date : 13/10/2015

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), 1
- (f) Police Station : Lokapur
- (g) First opening date : 04/07/2002
- (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 : 06/01/2027
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/ : 01/06/2014
Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	13/06/2002
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	17/11/2004
	:	Mining Scheme rule 12 MCDR1988	01/02/2008
	:	Mining Scheme rule 12 MCDR1988	02/05/2012
	:	Modif.approved Mining Scheme	24/06/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was a proposal to drill 02 boreholes in the year 2012-13.	Lessee has drilled 16 boreholes in the year 2015-16.	Form j is submitted on 16.12.2015.
1b	Exploration over lease area for geological axis 1 or 2	Nil.	Entire area is explored under G-1 level.	Lessee has drilled 16 boreholes in the year 2015-16.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil.	Exploration was carried out by M/s. Geotech Exploration, Nagpur. Expenditure incurred on exploration is about 8.58 Lakhs.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Entire area is explored under G-1 level of exploration.	
1e	Balance reserve as on 01/04/20		Limestone reserves as on 01.04.2016. Classification UNFC code Quantity in tons. Proved Reserves 111 6245890 Feasibility Resources 211 5672063 Inferred Resources 333 6223639	Inferred mineral resources are estimated below the proved depth.
1f	General remarks of inspecting officers on geology, exploration etc	Nil.	Nil.	Lessee has explored entire area under G-1 level, by drilling 16 boreholes in the year 2015-16.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	During the year 2015-16 it was proposed to work in the sections D-D', E-E'and F-F' .	working has been carriedout as per the proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed work one bench in ore and no topsoil and overburden benches were proposed.	Working has been carriedout as per the proposal. And one bench was worked in the year 2015-16.	
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.16	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	5550 cum	9830 cum.	The quantity includes waste generated from dolomite area also.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One.	
3b	Quantity of ROM mineral production proposed	120000 tons of limestone.	118000 tons	
3c	Recovery of sailable/usable mineral from ROM production	90%	85%	
3d	Quantity of mineral reject generation	Nil	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	Threshold value for limestone karnataka is Cao minimum 35%Cao.	Threshold value for limestone of Karnataka is Cao minimum 35% . The ore which is produced is above the threshold value and saleable.	
3f	Quantity of sub grade mineral generation.	Nil.	Nil.	
3g	Grade of sub grade mineral generation	NA.	NA.	
3h	Manual / Mechanised method adopted for segregating from ROM	mechanized.	Crushing and screening plant is using for size separation.	
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	Drilling by jackhammer and blasting by using slurry explosive.	Drilling and Blasting is going on as per the proposals.	
3k	Provision of mining machineries in mineral benches	One excavator of 1.5cum capacity was proposed.	Lessee is using one excavator for excavation of minerals and some times same is using for loading also.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3.0 mtrs.	Benches were maintained at 3-4mtrs height. However, in general it is observed that benches of regular heights were not maintained.	
3m	Total area covered under excavation/pits	Approximately 1.8 to 2.00 Ha for the year 2015-16.	Approximately 2.00 to 2.5Ha.	Total area covered under mining is about 4.60 Ha.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.16	

3o	Total area put in use under different heads at the end of year		Area under Mining-4.6 ha, and Infrastructure-1.7ha as on 31.03.2016.
3p	Production of ROM mineral during the last five year period as applicable	2015-16 120000 tons (Ls) 2014-15 120000 tons(Ls) 2013-14 120000 tons (Ls) 2012-13 120000 tons (Ls) 2011-12 126320 tons (Ls)	2015-16 118000 tons (Ls) 2014-15 107000 tons(Ls) 2013-14 120000 tons (Ls) 2012-13 93000 tons(Ls) 2011-12 8507 tons(Ls)
3q	General remarks of inspecting officers on method of mining etc.		At places the benches of regular height are not maintained. The same has been pointed out in the violation letter.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposals for duming topsoil and mineral reject.	waste dumping was made in the 7.5m safety zone and in south western part of the lease area.	

4b	Location of topsoil, OB and mineral reject dumps	No proposals for duming topsoil and mineral reject. For the year 2015-16 waste dump was proposed outside the lease area and from 2016-17 onwards waste dumping is proposed in the 7.5m safety zone.	waste dumping was made in the 7.5m safety zone and in south-western part of the lease area.	Since the entire area is mineralized the waste duming is made in the 7.5 m safety zone.
4c	Number of dumps within lease area and outside of lease area	One outside the lease area for the year 2015-16. From 2016-17 onwards dumping is proposed in the 7.5mtr safety zone.	Dumping was made in the 7.5m safety zone and two small dumps were made in south-western part of the lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed in 7.5mtr safety zone.	Dumping of waste is made in 7.5mtr safety zone and south western part of the lease area which is outside the UPL.	
4e	Number of active and alive dumps.	Nil.	Nil.	dumping is made in the 7.5mtr safety zone.
4f	Number of dead dumps.	Nil.	Nil.	
4g	Number of dumps established.	One outside the lease area (for the year 2015-16)	Two small dumps were made in the south-western part of the lease area.	
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.	Nil.
4k	Specific comments of inspecting officer on waste dump management		The entire lease area is mineralized and dumping is made in the 7.5m safety zone.

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.	NA	NA	
5b	Area under backfilling of mined out area	Nil.	Nil.	
5d	Total area fully reclaimed and rehabilitated	Nil.	Nil.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The mineral is proved upto a depth of 50mtrs and present working reached 20 mtrs only. So no reclamation and rehabilitation proposals were made in the present plan period.

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).	Annual report on PMCP should be submitted before Ist july of every year.	The annual report on PMCP required under Rule 23 E(2) of MCDR-88 for the year 2015-16 is not submitted so far.	Violation is pointed out for the same.

6b	Area available for rehabilitation (ha) .	Nil	Nil
6c	afforestation done (ha).	0.09 ha	0.66 ha
6d	No. of saplings planted during the year	150	700
6e	Cumulative no .of plants		1550
6f	Any other method of rehabilitation	Nil.	Nil.
6g	Cost incurred on watch and care during the year		48,000
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
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	NA.	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)		Lessee is regularly monitoring ambient air quality, water quality and all are found within permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		About 141162 tons of ore is dispatched from the mine head in the year 2015-16.	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.		Crushing and screening plant is using for size separation.
7c	Different grade of mineral sorted out at mines.	Nil.	Nil.
7d	Any beneficiation process at mines .		Only dry crushing and screening plant is using for size separation.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is utilizing all the ore by blending low grade ore with high grade ore.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil.	Nil.	
8b	Concurrent use or storage of topsoil		The topsoil removed so far is utilized for plantation in the 7.5m safety zone and for plantation near the mine office.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	The waste dump was proposed over 7.5m lease boundary.	two small dumps were made in the south-western part of the lease area and some quantity was put in the 7.5m safety zone.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil.	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)		Nearly 1550 saplings were planted in 7.5 mtr safety zone and near the mine office.
8g	Survival rate	60%	50-60%
8h	Water sprinkling on roads to control airborne dust		Regular water spraying is being done on haul roads and working areas using water tanks.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Benches were systematically developed. and plantions was made around mine office and in 7.5m safety zone.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Lessee is submitting Monthly and Annual returns within time. And providing all the informations required under part-I to part-VII.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer and Geologist shown as nil and P.M.Kobri is shown as Manager.	Shri Gururaj.B.Udapudi was appointed as mining enginner from 01.06.2014 and same is not shown in the annual returns.	Lessee has advised to furnish details of mining engineer and geologist in the annual returns.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining-4.662 Ha, Infrastructure -1.767Ha and Unbokenup area-8.151 ha.	The area under mining appears more compare to area mentioned in the annual returns 2015-16.	
9d	Scrutiny of Annual return on afforestation	In the annual returns submitted for the year 2015-16 it is mentioned that the number of trees planted as 1980 and survival rate 90%.	During field visit it was observed that number of plants were appears to be less as the survival rate observed be 50-60% only.	
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	In part-VI (2) for SMS grade opening stock is shown as 138942.900 tons, Production-94000 tons, Despatch-141162.080 tons and closing stock-91780.820 tons and for BF grade OS-Nil, production-24000 tons, Despatch-Nil and CS-24000 tons.	It was observed that quantity of total dispatch indicated at Item No.2 of part VI is not tallying with Sales/Dispatch indicated in Item No-5 of Part VI.	Violation is pointedout for the same.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value shown as Rs ,250 to 420/ tons, Ex-mine price is shown as Rs,337/ton and cost of production shown as Rs,250/ton	Details provided in the Annual Returns are almost matching.
9h	Scrutiny of Annual return on fixed assets	Total value of fixed assets is shown as 1.12 crores.	
9k	Scrutiny of Annual return on mining machineries	Only Air Compressor is shown in the annual returns.	

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)	19/09/2016				
Rule 23E(2)	19/09/2016				
Rule 42(1)(C)(I)	19/09/2016				
Rule 42(1)(C)(II)	19/09/2016				
Rule 63	19/09/2016				
Rule 45(7)	19/09/2016				

Date :

(DR. Y.G.KALE)

Indian Bureau of Mines