

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

MCDR INSPECTION REPORT

Goa regional office

Mine file No : KNT/BJP/LST-68/GOA

Mine code : 38KAR26050

- (i) Name of the Inspecting : **G001**) **GUMNA RAM**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Vijay Raikar, Lessee son
Official with
Designation
- (iv) Date of Inspection : 24/08/2016
- (v) Prev.inspection date : 28/05/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SULIKERI (ML 2391)**
- (b) **Registration NO.** : **IBM/694/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BAGALKOT
Village : SULIKERI
Taluka : BADAMI
Post office :
Pin Code :
FAX No. : 08354-222126
E-mail : raikarmines@gmail.com
Phone : 9480533560
- (f) Police Station : BAGALKOT
- (g) First opening date : 01/04/2003
- (h) Weekly day of rest : TUE
2. Address for : Smt. V.S.Raikar
correspondance : C/o-Vijayalaxmi Jewellers
Vallabhai Chowk, Bagalkot-587101
3. (a) Lease Number : KAR1477
- (b) Lease area : 10.55
- (c) Period of lease : 20
- (d) Date of Expiry : 12/03/2023
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : VIJAYALAXMI S.RAIKAR
 C/o Vijayalaxmi Jewellers
 Vallabhai Chowk BAGALKOT
 KARNATAKA
 Phone:0835-2420456
 FAX :

Owner : SMT. V.S.RAIKAR
 C/o- Vijayalaxmi Jewellers
 Vallabhai Chowk Bagalkot
 BAGALKOT KARNATAKA
 Phone: 08354-220456
 FAX :

Mining Engineer

Name : Bandi Prabhakar Reddy, Full Time
 Qualification : Diploma in Mining Engg & Second Class Ma
 Appointment/ : 01/01/2012
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	01/10/2002
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	12/04/2006
	:	Modif.of approved Mining Plan	29/12/2006
	:	Mining Scheme rule 12 MCDR1988	02/07/2009
	:	Mining Scheme rule 12 MCDR1988	26/08/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	--	--	--
1b	Exploration over lease area for geological axis 1 or 2	It was proposed to drill 18 numbers of DTH boreholes, each up to 60m depth during present scheme period from 2013-14 to 2017-18.	No such exploratory boreholes have been drilled & reported so far.	Violation under provision of rule 13(1) of MCDR,88 pointed out to lessee for drilling of exploratory borehole.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	It was proposed to drill 18 numbers of DTH boreholes, each up to 60m depth during present scheme period from 2013-14 to 2017-18.	The part of mining lease area is still remain for exploration & lessee proposed details exploratory borehole in present scheme period but so far not done.	Violation under provision of rule 13(1) of MCDR,88 pointed out to lessee for drilling of exploratory borehole.
1e	Balance reserve as on 01/04/20	--	The reserves & remaining resources available as on 01.4.2013 is as follows-UNFC code-111,121&122-896403T(L/s) & 1890805T(Dol.) and Remaining resources-1081980T (L/s) & 2042084T(Dol.)	

1f	General remarks of inspecting officers on geology, exploration etc	It was proposed to drill 18 numbers of DTH boreholes, each up to 60m depth during present scheme period.	The part of lease area is still remain for exploration, lessee proposed additional expository boreholes but so far not done .	Violation under provision of rule 13(1) of MCDR,88 pointed out to lessee for drilling of additional exploratory borehole.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed for development as earmarked in plate no.6C &6D.	The mining operations has been carried out as proposed & partly done.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to make seperate benches in O/B & mineral.	Done as proposed.	
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.01 (Dol.) & L/s-NIL	
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	5115m3	227m3 (about 500T)	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	--	--	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Single pit.	Single pit.	
3b	Quantity of ROM mineral production proposed	1,57,906T(D) & 26,322T(L/s) (2015-16)	1,09,000T(D) & 0T (L/s)	
3c	Recovery of sailable/usable mineral from ROM production	NA	The maximum usable/saleable mineral is utilising by proper blending & sizing and sorting.	
3d	Quantity of mineral reject generation	Not proposed.	NIL	The generated subgrade/mineral rejects is being utilising by proper blending, sizing & sorting.
3e	Grade of mineral rejects generation and threshold value declared.	NA	NIL	
3f	Quantity of sub grade mineral generation.	Not proposed.	NIL	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method with Jack hammer drilling & blasting.	Mining operations is being carried out as proposed.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NIL	
3j	Provision of drilling and blasting in mineral benches	Jack hammer drilling & blasting proposed.	Jack hammer drilling & blasting is using.	

3k	Provision of mining machineries in mineral benches	EX-100 Excavator-02 of 0.9m3 bucket capacity.	HEMM is being used as proposed above.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not proposed.	The height of benches is optimum.	The height & width of benches is inadequate in few places and advised to lessee to maintain optimum height & width.
3m	Total area covered under excavation/pits	-	The total excavated lease area is about 4Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.004 (Dol.) & NIL (L/s)	
3o	Total area put in use under different heads at the end of year	--	The present land used details are as follows.-	
3p	Production of ROM mineral during the last five year period as applicable	2012-13=1,11,111T(D)) & 27778T(L/s) 2013-14=1,57,833T(D)) & 26322T (L/s) 2014-15=1,57,896T(D)) & 26307T (L/s) 2015-16=1,57,908T(D)) & 26312T (L/s) 2016-17=1,57,906T(D)) & 26322T (L/s)	2012-13=1,11,140T(D) & 0T(L/s) 2013-14=68,992T(D) & 0T(L/s) 2014-15=79,500T(D) & 0T(L/s) 2015-16=1,09,000T(D) & 0T(L/s) 2016-17=45,000T(D) & 0T(L/s) up to August,16.	
3q	General remarks of inspecting officers on method of mining etc.	--	--	--

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It was proposed to dump the O/B/intercalated waste as earmarked on plate no.6C.	The overburden/intercalated waste dumped as earmarked ground above.	
4b	Location of topsoil, OB and mineral reject dumps	It was proposed to dump the intercalated waste as earmarked ground in NW of ML.	Done as proposed partly due to less production achieved.	
4c	Number of dumps within lease area and outside of lease area	Single dump	Single dump	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NW of mining lease as earmarked in plate no6C &6D.	done as proposed.	
4e	Number of active and alive dumps.	Single active dump	Single active dump	
4f	Number of dead dumps.	NA	NIL	
4g	Number of dumps established.	NA	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NIL	
4i	Length of Retaining wall or garland drain all along dumps	NA	NIL	
4j	Number of settling ponds	Not proposed.	NIL	
4k	Specific comments of inspecting officer on waste dump management	NA	NIL	NIL

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.	Not applicable	NIL	
5b	Area under backfilling of mined out area	Not applicable	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	NIL	
5d	Total area fully reclaimed and rehabilitated	Not applicable	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL	NIL	NIL

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).	--	The annual report on PMCP under rule 23(E) (2) for the year 2015-16 is not submitted. However lessee have been carried out the plantation work along 7.5m of statutory barrier.	Violation under provision of rule 23(E) (2) of MCDR,88 pointed out for rectification.
6b	Area available for rehabilitation (ha) .	NA	NIL	
6c	afforestation done (ha).	0.037ha area & 200 no. plants	500 No of plantation done with in 7.5m of statutory barrier.	
6d	No. of saplings planted during the year	-	Badam. ashoka & neem saplings planted during the year.	

6e	Cumulative no .of plants	NA	NA
6f	Any other method of rehabilitation	NA	NIL
6g	Cost incurred on watch and care during the year	NA	Watch & ward constantly maintained for taking care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NA	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	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)	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to periodical monitoring of environmental parameters.	The environmental parameters is being carried out periodical . No adverse impact reported.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NIL

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to sizing & sorting the mineral as per buyers requirement.	The sizing & sorting as per buyers specification near mine pit area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	--	Manual & mechanical both.	
7c	Different grade of mineral sorted out at mines.	-	The sizing & sorting of mineral by size & grade as per buyers specification.	

7d	Any beneficiation process at mines .	NA	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NIL	NIL	NIL

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	NIL	The top soil generated is being utilised for plantation & afforestation work with in 7.5m of statutory barrier.
8b	Concurrent use or storage of topsoil	Not applicable	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	it was proposed to dump as earmarked ground with in lease area in NW side.	Seperate stacking of ore & dumping of intercalated waste.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Applicable	NIL	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	It was proposed to plantation with in 7.5m of statutory barrier.	Plantation done with in 7.5m of statutory barrier in addition to existing plantatiion near mine office premises etc.
8g	Survival rate	--	About 65-70%
8h	Water sprinkling on roads to control airborne dust	it was proposed to sprinkling the water on haul road etc.	water sprinkling is being used on the haul road to control air borne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	Good asthetic beauty of mine pit area with surrounding agriculture & plantation.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The party has not submitted the annual return for the year 14-15 & 15-16 in prescribed form with in prescribed time to this office.	Violation of provision of rule 45(5)(b) of MCDR,88 is pointed out for rectification of violation.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The Mining Engineer & Geologist has not been appointed under provision of Rule 42 of MCDR, 88.	Violation of provision of rule 42(1)(c)(i) of MCDR, 88 is pointed out for rectification of violation.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The land used details as per annual return 2015-16-Area under Opencast workings-about 4Ha., Waste disposal- 0.25Ha. & Plant & Bldg- 0.5Ha., Plantation-0.5Ha reported.	The land used details as reported in AR is almost in order but area reported more.
9d	Scrutiny of Annual return on afforestation	250 numbers & 65% survival reported.	The rate of survival is poor due to lack of water in summer season.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NA
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The annual return for the Year-2015-16:- Production- 1,09,000T(Dolomite) & Limestone-0T, O/B-500T, O/S- 1111.17T, Dispat ch- 87,951.5T, C/S- 22159.67T /dolomite reported/Ex Mine price- 293Rs./T. (D)	As advised to lessee to file the online return to IBM, since lessee presently producing only dolomite mineral & limestone nil production.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine price- -- 293Rs./T & Cost of production- 188.5Rs./T & presently producing dolomite only. The selling the material to registered person as reported in annual return.	--	
9h	Scrutiny of Annual return on fixed assets	NA	NIL	NIL
9k	Scrutiny of Annual return on mining machineries	Excavators of 0.9 m3 bucket capacity of non-electric type used & Ashok Leyland tippers.	As reported is using in mine.	

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	20/10/2016			
Rule 42(1)(C)(I)	19/09/2016				
Rule 45(5)(b)	19/09/2016	20/10/2016			
Rule 63	19/09/2016	20/10/2016			

Date :

(GUMNA RAM)

Indian Bureau of Mines