

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

Mining Plan Modification REPORT

Goa regional office

Mine file No : KNT/BJP/LST-72/GOA

Mine code : 38KAR26052

- (i) Name of the Inspecting : **K02**) **KALMATA M.K.**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : SHRI. G. HARENDRA, TQP
Official with
Designation
- (iv) Date of Inspection : 13-FEB-18
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SHRI GURUDEV (ML 2407)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : BAGALKOT
- Village : JALIKATTI
- Taluka : MUDHOL
- Post office : LOKAPUR
- Pin Code : 587122
- FAX No. :
- E-mail : atmanandminerals@gmail.com
- Phone : 08350-340256
- (f) Police Station : LOKAPUR
- (g) First opening date : 18-JUL-03
- (h) Weekly day of rest : TUE
2. Address for : SHRI GURUDEV ATMANAND MINERALS
correspondance : At & po- Lokapur (Jalikkatti)
Tq-Mudhol, Dist-Bagalkot-587122
3. (a) Lease Number : KAR1362
- (b) Lease area : 4.88
- (c) Period of lease : 20
- (d) Date of Expiry : 24-JUN-23
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : VENKAPPA RAMAPPA B. PATIL
 At-Lokapur Po-Lokapur Tq-
 Mudhol BAGALKOT KARNATAKA
 Phone:08350-340256 (O)
 FAX :

Owner : V.R.B.PATIL, SHRI GURUDEV ATMANAND MINERALS
 At & Po-Lokapur tq-Mudhol
 BAGALKOT KARNATAKA
 Phone: 08350-240256
 FAX :

Geologist

Name : Shri Suresh Khot,Part Time
 Qualification : MSc Geology
 Appointment/ : 01-AUG-14
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	26-MAR-03
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	19-SEP-05
	:	Mining Scheme rule 12 MCDR1988	05-NOV-09
	:	Modif.of approved Mining Plan	26-APR-10
	:	Mining Scheme rule 12 MCDR1988	07-NOV-13

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	In the last approved document there was a proposal to drill 06 DTH holes in the plan period.	Lessee has drilled 09 coreholes to a total depth of 365 mtrs in the year 2017-18.	
1b	Exploration over lease area for geological axis 1 or 2	Entire area was proposed	Entire area is explored under G-1 level of exploration	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Exploration is carried out by lessee under supervision of statutory person and drilling machine of M/s Sankalpana, Goa.	
1d	Balance area to be explored to bring Geological axis in 1 or 2		Entire area is explored under G-1 level of exploration.	
1e	Balance reserve as on 01/04/20		Reserves- 2040852 tons Resources- 796974 tons	
1f	General remarks of inspecting officers on geology, exploration etc		Entire area is explored under G-1 level of exploration.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	There was a proposal to work between cross sections B-B' to D-D'	Working has been carried out as per the proposal in b/w section B-B' to D-D'. However depth wise working was not carried out as per the proposal.	Violation is pointed out for the same.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches were proposed in ore only.	Benches were developed in ore only and waste is found as intercalated clay only.	

2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.1	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	5555	1003	The production was less than the proposal due to want of EC so waste generation is less than the proposal.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Due to non availability of EC the propduction was less than the proposal. So depth wise working has been not carriedout as per the proposal. Bench heights were not maintained as per the proposal and violation is pointed out for the same.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	100003 tons	20000 tons	The lessee production is due to non availability of EC.
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
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	Manual	Manual	
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	Yes	Drilling and blasting is doing as per the proposal.	
3k	Provision of mining machineries in mineral benches	One excavator with tipper combination.	On the day of inspection the mine was not working due to local festival and no machineries were observed in mineral benches.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3mts benches	The bench height was not maintained as per the proposal.	Violation is pointed out for the same.
3m	Total area covered under excavation/pits		2.5 to 3.00Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.1	
3o	Total area put in use under different heads at the end of year		Area under mining 2.5 to 3.00 Ha, Area under duming-0.15Ha, Infrastructure-0.187.	
3p	Production of ROM mineral during the last five year period as applicable		2017-18 100003 tons 2016-17 100000 tons 2015-16 100002 tons 2014-15 100000 tons 2013-14 100002 tons	2017-18 20000 tons 2016-17 19988 tons 2015-16 19896 tons 2014-15 19867 tons 2013-14 8566 tons.

3q	General remarks of inspecting officers on method of mining etc.	The benches were not maintained as per the proposal and violation is pointed out for the same.
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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)	Only waste dump was proposed.	Waste dump was made separately.	Dumping was made in the working pit only so vio;ation is pointed out for the same.
4b	Location of topsoil, OB and mineral reject dumps	waste dump was proposed in the nothern portion of the lease boundary.	Waste dump was made in the western part of the lease area.	violation is pointed out for the same.
4c	Number of dumps within lease area and outside of lease area	One	One	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	one	one	
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	NA	NA	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management		The dumping of waste was not made as per the proposal and violation is pointed out for the same.	

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 backfilling is proposed in the present plan period.	Working has been not carried out upto the proved depth so no backfilling is proposed in the present plan period.
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.		The working has been not carried out upto the proved depth. So no backfilling is proposed in the present plan period.

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).	Before 1st July of every year	Yearly report on PMCP was not submitted for the year 2016-17.	Violation is pointed out for the same.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.02	0.02	
6d	No. of saplings planted during the year	50	50	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	NA	NA	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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)	Lessee is regularly monitoring Air, Water and Noise and all the parameters are within permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Lessee has made the plantation as per the proposal. Lessee is regularly monitoring Air, Water and Noise and all the parameters are within permissible limit.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		About 1154 tons of BF grade and 20791 tons of Cement grade ore is despatched from the mine in the year 2016-17.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.		BF grade and Cement grade	
7d	Any beneficiation process at mines .	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is blending lowgrade ore with high grade ore as per the specification of the buyor.	

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	NA	NA
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)		OB is dumped separately and no mineral reject is generated.
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)		Total 820 saplings were planted in the plan period.
8g	Survival rate		60 to 65%
8h	Water sprinkling on roads to control airborne dust		Lessee is using tractor mounted tanker for suppression of dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Most of the area is degraded by mining. Lessee has made plantation in the t.5 mtr safety zone. Benches were not properly maintained and violation is pointed out for the same.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns		Lessee is regularly submitting montly and annual returns.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	In the annual returns submitted for the year 2016-17 mining engineer is shown as Nil and Geologist- Shri Suresh Khot.	Lessee has not appointed Mining engineer and Geologist.	Violation is pointed out for the same.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under current working was shown as 2.96Ha, waste disposal - 0.123ha and for infrastructure -0.187ha	Almost matching.	
9d	Scrutiny of Annual return on afforestation	50 saplings	50 saplings	
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	BF-grade-10269 tons and Cement grade- 3015 tons	Stock positions were almost matching	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	sale value of BF grade ore was shown between Rs 412 to 569/ton and for cement grade Rs- 340/ton. Exmine price is shown as Rs-464/ton for BF grade ore and Rs-314 for cement grade and cost of production is shown as Rs 310/ton	Sample check of Sale invoice was done and data is matching.	

9h	Scrutiny of Annual return on fixed assets	Value of fixed asset is shown as Rs- 5129991
9k	Scrutiny of Annual return on mining machineries	Only air compressor was 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
MCDR17	Rule 11(1)	27-FEB-18			
MCDR17	Rule 26(2)	27-FEB-18			26-JUN-18
MCDR17	Rule 27(1)	27-FEB-18			26-JUN-18
MCDR17	Rule 27(2)	27-FEB-18			26-JUN-18
MCDR17	Rule 48	27-FEB-18			26-JUN-18
MCDR17	Rule 55(1) (3)	27-FEB-18			

Date :

(KALMATA M.K.)

Indian Bureau of Mines