

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-63/GOA

Mine code : 38KAR26042

- (i) Name of the Inspecting : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Mines Manager, Shri G. Harendra, Mining Geologist
Official with
Designation
- (iv) Date of Inspection : 12/10/2018
- (v) Prev.inspection date : 11/01/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TIMMAPUR (ML.NO.2380)**
- (b) **Registration NO.** : **IBM/5500/2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BAGALKOT**
- Village : **TIMMAPUR**
- Taluka : **MUDHOL**
- Post office : **MUDDAPUR**
- Pin Code :
- FAX No. : **NIL**
- E-mail : **seshasai_mining@yahoo.co.in**
- Phone : **08350-383498, 9448138349**
- (f) **Police Station** : **LOKAPUR**
- (g) **First opening date** : **15/12/2002**
- (h) **Weekly day of rest** : **TUE**
2. **Address for correspondence** : **M/s Sesha Sai Mining Co.,**
Sy.No-63/1, At and po-Muddapur
Tq-Mudhol, Dist- Bagalkot- Karnataka
3. (a) **Lease Number** : **KAR1467**
- (b) **Lease area** : **4.86**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **19/11/2022**
4. **Mineral worked** : **DOLOMITE** Associated
LIMESTONE Main

5. Name and Address of the

Lessee : SESA SAI MINING COMPANY
 Sy.No 63/1, At & Po-
 Muddapur TALUKA- MUDHOL
 BAGALKOT KARNATAKA
 Phone:+919448138349, 08350-203437 (O)
 FAX :

Owner : K. SURESH REDDY, PARTNER
 SY. NO. 63/1, AT-MUDDAPUR
 TQ-MUDHOL BAGALKOT
 KARNATAKA
 Phone: 09448138349
 FAX :

Mining Engineer

Name : BASAPPA DYANAPPA, Full Time
 Qualification : Mines Foreman Certificate
 Appointment/ : 15/11/2003
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	31/10/2002
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	11/06/2004
	:	Mining Scheme rule 12 MCDR1988	11/10/2007
	:	Mining Scheme rule 12 MCDR1988	09/04/2012
	:	MP modif under 17(3) MCR 2016	19/01/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	Area covered under G1 level of Exploration
1b	Exploration over lease area for geological axis 1 or 2	Not Proposed	nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	nil	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	nil	nil	Area covered under G1.
1e	Balance reserve as on 01/04/20	-	17.50 lakh tonnes	Not achieved full capacity of approved production.
1f	General remarks of inspecting officers on geology, exploration etc			G1 level of exploration already undertaken.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1791872-1791974 E 534254-534482	N 1791860-1791972 E 534200-534405	Variation may be due to less production achieved.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	yes	One- for top soil and five for limestone
2c	Stripping ratio or ore to OB ratio	1:0.32	1:0.30	
2d	Quantity of topsoil generation in m3	2899T	nil	Not achieved .However, advice to use for developement of green belt (plantation)as proposed in approved doc.

2e	Quantity of overburden generation in m3	12000T	6900T	less achieved
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Advise to reduce the bench ht as proposed in approved MMP. However, observed, the correction works towards shaping /reducing the ht of the benches.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	59998 Tonnes	34500 tonnes	Less production achieved
3c	Recovery of sailable/usable mineral from ROM production	80%	80%	As reported.
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed for generation of MR	Nil	THV of Limestone is 35% CaO.
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	NA	Nil	
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.	Not proposed	Nil	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	Jack hammer drilling practiced.
3k	Provision of mining machineries in mineral benches	Loading - One no. Back hoe of small capacity Tipper - 10 tons capacity one no.	as above.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3Metre ht	observed some places in marginally in greater ht. in limestone benches.	Observed the Correction work and advised to maintained as proposed.
3m	Total area covered under excavation/pits	pit-2.6465 Ha	2.4665ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.32	1:0.30	
3o	Total area put in use under different heads at the end of year	Total area 2.8465Ha	2.5565Ha	As per the report furnished by lessee and approved doc.
3p	Production of ROM mineral during the last five year period as applicable	2013-14-60000T 2014-15-60000 T 2015-16 - 60000 T 2016-17 - 60000 T 2017-18 - 59998 T	2013-14 - 35450T 2014-15- 32500 T 2015-16 - 32900 T 2016-17 - 39950 T 2017-18 - 34500 T	Achieved figures less with respect to proposal.
3q	General remarks of inspecting officers on method of mining etc.			Method opted as OTFM by using small scale of machinery.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	Top soil proposed to use for formation of safety belt and planataion. No mineral reject	Yes. under progress.	
4c	Number of dumps within lease area and outside of lease area	One within	Within	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within	within	
4e	Number of active and alive dumps.	one	one	
4f	Number of dead dumps.	-	nil	
4g	Number of dumps established.	active dump only	yes	
4h	Whether Retaining wall or garland drain all along dumps are there.		Parapet wall	
4i	Length of Retaining wall or garland drain all along dumps	-	30m	
4j	Number of settling ponds			Regional rain fall recored as less as compare to other part of Karnataka.
4k	Specific comments of inspecting officer on waste dump management			Disposal of waste is less. However maintain the protection wall.

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.	Not proposed for backfilling as area not fully exhausted.	Not achieved	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	Nil	For development of green belt
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling and reclamation proposed/achieved.

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).		Not submitted	Violation issued for compliance.
6b	Area available for rehabilitation (ha) .	No proposal for rehabilitaion.	Nil	
6c	afforestation done (ha).	0.128ha	0.10 Ha	
6d	No. of saplings planted during the year	250 nos.	300 nos.	
6e	Cumulative no .of plants		approx 1500 nos	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Rs. 12800/-	Rs. 15000/-	

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	No proposal
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	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)	given	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mineral not exhausted. Therefore not started R&R. Green belt development along the safty barriers of 7.5 M along the mine lease boundary has observed under progress.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sorting	Manual sorting	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	manual	
7c	Different grade of mineral sorted out at mines.		+35 % CaO sorted in the mine head and partly send to the pulverizing plant installed by lessee outside the lease.	
7d	Any beneficiation process at mines		Pulverization outside the lease.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Part of the mineral send to pulverizing plant installed by lessee.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	yes	yes	used for plantation for green belt dev.
8b	Concurrent use or storage of topsoil	yes	yes	available in less quantity.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Overburden/waste dump available	Overburden/waste dump available	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	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)	available	1500nos. cumulative plantation.	
8g	Survival rate		75%	
8h	Water sprinkling on roads to control airborne dust		yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Efforts observed towards green belt development. Also, observed fruit bearing plantation area developed adjacent to the mining lease area.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Submitted	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Part time Mining Geologist mining Engineer column not furnished	Part time Mining Geologist appointed mining Engineer not appointed	Violation issued
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Furnished, Area under pit-3.117ha	
9d	Scrutiny of Annual return on afforestation	300nos.	observed plantation towards safety barriers.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	5454.882Tons	Observed	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Furnished	Observed deficiencies in sale value and ex mine price	Pointed out violation
9h	Scrutiny of Annual return on fixed assets		Provided	
9k	Scrutiny of Annual return on mining machineries		provided	

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)	23/10/2018			
MCDR17	Rule 26(2)	23/10/2018			
MCDR17	Rule 45(7)(a)	23/10/2018			
MCDR17	Rule 55(1)(2)	23/10/2018			

Date :

(SURESH PRASAD)

Indian Bureau of Mines