

**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 : Shri. Suresh Reddy, Agent
Official with
Designation
- (iv) Date of Inspection : 09-AUG-19
- (v) Prev.inspection date : 12-OCT-18

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-DEC-02**
- (h) **Weekly day of rest** : **TUE**
2. **Address for correspondance** : **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-NOV-22**
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-NOV-03
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	31-OCT-02
		Modif.of approved Mining Plan	11-JUN-04
		Mining Scheme rule 12 MCDR1988	11-OCT-07
		Mining Scheme rule 12 MCDR1988	09-APR-12
		MP modif under 17(3) MCR 2016	19-JAN-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	NIL	Area already covered under G1 exploration.
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	No Proposal	NIL	Entire area explored under G1 level of exploration.
1e	Balance reserve as on 01/04/20	16.50LT	16.98 Lakhs Ton	
1f	General remarks of inspecting officers on geology, exploration etc		Lease area is already covered under G1 Level of exploration.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E 534235 E 534455 N 1791900 N 1791992	E 534300 E 534420 N 1791860 N 1791972	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	1 in Top soil 5 in Limestone	
2c	Stripping ratio or ore to OB ratio	1:0.32	1:0.25	
2d	Quantity of topsoil generation in m3	No proposal	NIL	
2e	Quantity of overburden generation in m3	6000	4350	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Top soil is used for planataion purposes. However, in the year 2018-19 no such proposal/achieved were made.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 no.	01 no.	
3b	Quantity of ROM mineral production proposed	59998 tonnes	52510 tonnes	Achieved slightly less quantity.
3c	Recovery of sailable/usable mineral from ROM production	80%	80%	
3d	Quantity of mineral reject generation	No Proposal	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	No Proposal	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
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.	No proposal	NIL	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	Jack Hammer drilling & blasting proposed and being carried out.

3k	Provision of mining machineries in mineral benches	Small scale deployment	Small scale deployment	Working under OTFM category.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m	Observed in some places of limestone benches in marginally in greater height.	Observed the correction works and further advised to maintain within the proposal.
3m	Total area covered under excavation/pits	3.0174 Ha.	2.9 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.32	1:0.25	
3o	Total area put in use under different heads at the end of year	Pit - 3.0174 Ha. Dump - 0.12 Ha. Others- 2.0935	Pit - 2.900 Ha. Dump - 0.12 Ha.	Figures is per the report provided by mine management.
3p	Production of ROM mineral during the last five year period as applicable	2014-15-60000T 2015-16-60000T 2016-17-60000T 2017-18 - 59998T 2018-19 - 59998T	2014-15 - 32500T 2015-16 - 32900T 2016-17 - 39950T 2017-18 - 34500T 2018-19 - 52510T	
3q	General remarks of inspecting officers on method of mining etc.		Method opted as OTFM by using small scale of machinery deployment.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	South side of mining pit within the 7.5m SZ	South side of mining pit within the 7.5m SZ	No Mineral rejects. waste and Top soil used for development of safety barriers.

4c	Number of dumps within lease area and outside of lease area	within lease area	within lease area only.
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	NIL
4g	Number of dumps established.	Active dump onle	Yes
4h	Whether Retaining wall or garland drain all along dumps are there.		25 m retaining wall & Parapet wall along the 7.5m safety zone at north side
4i	Length of Retaining wall or garland drain all along dumps	maintained the existing	25 m retaining wall, 250 m Garland drain & band
4j	Number of settling ponds		Average Rainfall in the region is reported as less as compared to other part of the state.
4k	Specific comments of inspecting officer on waste dump management		Waste generation is less. however, maintained the protection wall around.

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.	No Proposal	NIL	Area is not matured for backfilling.
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)	No Proposal	NIL	Mineral is not exhausted from the lease area, therefore no R&R started. Top soil is used for green belt development.
5d	Total area fully reclaimed and rehabilitated	Not applicable	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mining area is not matured for backfilling. Therefore, backfilling and reclamation work not proposed/being carried out.	

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).	Submitted within	Submitted within the time frame.	
6b	Area available for rehabilitation (ha) .	NO proposal	NIL	Area not matured for backfilling & rehabilitation.
6c	afforestation done (ha).	0.128 ha	0.150 ha	For green belt developement
6d	No. of saplings planted during the year	256 Nos.	460nos.	
6e	Cumulative no .of plants		1960nos.	
6f	Any other method of rehabilitation	No proposal	NIL	
6g	Cost incurred on watch and care during the year	12800/-	23000/-	Figure, as per the report provided by lessee.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	NIL	Area is not matured for backfilling and reclamation. Plantation for green belt developement is being carried out.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable	Not applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not applicable	Not applicable	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not applicable	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not applicable	Not applicable	Plantation is for green belt development only.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring on Core and Buffer Zone	Being carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Area is not matured for backfilling and reclamation.	Plantation for green belt development is being carried out.

Mineral Conservation:

Sl.No.	Item	Proposals	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.	+45% CaO +35% Cao to - 45% CaO	+45% CaO +35% Cao to -45% CaO	
7d	Any beneficiation process at mines .	Noi Proposal	NIL	Lessee has installed value additional Plant outside the lease area.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Observed satisfactory in this respect.	Lessee has installed value additional Plant which is located outside the lease area.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Used for plantation	Top soil as generated is used for plantaion purposes.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Waste generation are of small scale.	materials area keeping seperately as proposed.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	NIL	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Cummulative 0.60ha, & sapling 1500 nos.	
8g	Survival rate	60%	60%	
8h	Water sprinkling on roads to control airborne dust	Yes	Water tanker engaged for springkling	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Green belt developent are observed to be in under progress.	agro forestry area developed near the mines with good maintenance of variou species.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = July 2019 AR Submitted for the year 2018-19.	Being submitted in time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Enginner & Geologis para of the returns are furnished.	Observed Part time Geologist appointment.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	O/C working - 2.9 Ha Occupied building etc- 0.12 ha Safety Zone 0.64 ha	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not furnished	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		ROM stock Nil Graded Ore Closing stock BF Grade 11431.482 Tons	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Furnished	Ex Mine Price 485 Rs/T, Cost of Production- 374.10 Rs/T	Violation issued under 45(7) for sale mineral to the some party having no IBM registration.
9h	Scrutiny of Annual return on fixed assets	Furnished	Net closing balance reported as INR 3462000.	
9k	Scrutiny of Annual return on mining machineries	Furnished	Back hoe 0.90 CUM- 01 no. Tipper 01 no. and other ancilliary equipments.	

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17 Rule 45(7) (a)	22-AUG-19				
MCDR17 Rule 55(1) (3)	22-AUG-19				

Date :

(SURESH PRASAD)

Indian Bureau of Mines