

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **G001**) **GUMNA RAM**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri K Suresh Reddy, Lessee Rep.
Official with
Designation
- (iv) Date of Inspection : 26/08/2016
- (v) Prev.inspection date : 03/12/2014

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 : M/s Sessa Sai Mining Co.,
correspondance : 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 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|---|---------|
| 1a | Backlog of previous year | It was proposed to drill 01 no.of exploratory core borehole up to depth of 50m each in the year 2012-13. | The lessee have been drilled the 01 no.DTH boreholes up to 50m depth in 2013-14 due to non availability of core drill m/c. | |
| 1b | Exploration over lease area for geological axis 1 or 2 | - | As per earlier guideline lessee has been done the 05 exploratory boreholes in entire lease area in G1 level. However if any requirement may be there, additional exploration may be proposed. | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | NA | NIL | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | - | - | |
| 1e | Balance reserve as on 01/04/20 | - | The reserves & remaining resources as on 01/4/2014 is as follows- (111,121&122-83,79,43T & 57,18,14T & Remaining resources-69,52,67T) After depletion of production achieved from 2014-15 & 15-16, net available reserves are as follows. | |
| 1f | General remarks of inspecting officers on geology, exploration etc | - | - | - |

Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|---------|
| 2a | Location of development w.r.t.lease area | It was proposed to work/develope the mine lease area as earmarked in plate no.6D &6E. | The mine workings/development was done partly as proposed only due to less production achieved. | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | As proposed, the topsoil /OB/rejects is removing seperately. | It was proposed to remove the topsoil /OB/rejects seperately. | |
| 2c | Stripping ratio or ore to OB ratio | 1:0.141 (2015-16) | 1:0.03 | |
| 2d | Quantity of topsoil generation in m3 | Not proposed | NIL | |
| 2e | Quantity of overburden generation in m3 | About 4200m3 (8471T) | 1000T | |
| 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 |
|--------|---|------------------------------|------------------------------|---------|
| 3a | Number of pit proposed for production | Single pit area, 3-4 benches | Single pit area, 3-4 benches | |
| 3b | Quantity of ROM mineral production proposed | 60,000T | 32,900T | |
| 3c | Recovery of sailable/usable mineral from ROM production | 60,000T | 32900T | |
| 3d | Quantity of mineral reject generation | Not proposed | NIL | |

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|----|--|--|--|
| 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 | Not proposed | NIL |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanised | Mechanised |
| 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 | Jack Hammer drilling & blasting | Jack Hammer drilling & blasting |
| 3k | Provision of mining machineries in mineral benches | Back Hoe & Wheel Loader, Jack Hammer, Air Compressor, Tippers, Tractor trailer | Back Hoe & Wheel Loader, Jack Hammer, Air Compressor, Tippers. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | bench height 3m proposed | 3-5m bench variable bench height maintained. |
| 3m | Total area covered under excavation/pits | | Total area covered under excavation/pits is about 3.1Ha |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.141 (2015-16) | 1:0.03 |

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|----|--|---|---|
| 3o | Total area put in use under different heads at the end of year | - | Area under mining is about 3.1Ha, Roads- 0.01Ha etc. |
| 3p | Production of ROM mineral during the last five year period as applicable | 2012- 13=60,000T 2013- 14=60,000T 2014- 15=60,000T 2015- 16=60,000T 2016- 17=60,000T | 2012-13=18,944T 2013-14=35,450T 2014-15=32,450T 2015-16=32,900T 2016-17=35,400T(Up to Oct,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) | | | |
| 4b | Location of topsoil, OB and mineral reject dumps | | | |
| 4c | Number of dumps within lease area and outside of lease area | | | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | | | |
| 4e | Number of active and alive dumps. | | | |
| 4f | Number of dead dumps. | | | |
| 4g | Number of dumps established. | | | |

- 4h Whether Retaining wall or garland drain all along dumps are there.
- 4i Length of Retaining wall or garland drain all along dumps
- 4j Number of settling ponds
- 4k Specific comments of inspecting officer on waste dump management

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 proposed. | NIL | |
| 5b | Area under backfilling of mined out area | Not proposed. | NIL | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Not proposed. | NIL | |
| 5d | Total area fully reclaimed and rehabilitated | Not proposed. | NIL | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | NA | 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 return on PMCP under rule 23(E) (2) of MCDR,88 for the year 2015-16 is submitted. | |
| 6b | Area available for rehabilitation (ha) . | NA | NIL | |
| 6c | afforestation done (ha). | 0.064Ha. | 0.05Ha. | |
| 6d | No. of saplings planted during the year | 128 No. of Plants (2015-16) | 300 No.of Plants | |
| 6e | Cumulative no .of plants | - | - | |
| 6f | Any other method of rehabilitation | Not proposed | NIL | |
| 6g | Cost incurred on watch and care during the year | It was proposed to deploy the watch & ward for taken care. | The watch & ward deployed but due to scaricity of water, survival is average. | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | Not proposed. | NIL | |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | Not proposed. | NIL | |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area | Not proposed. | NIL | |

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|----|--|---------------|-----|--|
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | Not proposed. | NIL | |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | Not proposed. | NIL | |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | Not proposed. | NIL | |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | Not proposed. | NIL | |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | Not proposed. | NIL | |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | | | As reported,regular monitoring of air & water in core & buffer zone. No adverse impact reported. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | - | - | - |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|----|--|--|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | It was proposed to manual sorting & sizing of ROM/mineral reject . | The sorting & sizing of ROM/mineral reject manually . |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Manual sizing & sorting. | Manual sizing & sorting. |
| 7c | Different grade of mineral sorted out at mines. | It was proposed to utilise the mineral by proper blending, sizing & sorting. | The mineral is being utilised by proper blending, manual sizing & sorting. |
| 7d | Any beneficiation process at mines . | Not proposed. | NIL |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | - | - |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|--|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | It was proposed to seperate removal & utilisation of topsoil. | The topsoil is being removing seperately & utilised for plantation work. | |
| 8b | Concurrent use or storage of topsoil | Not Proposed. | NIL | |

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|----|---|---|--|
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | It was proposed to seperately dump/stack the OB & MR. | The OB & MR dumped/stack seperately as earmarked. |
| 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) | Not proposed. | NIL |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | - | - |
| 8g | Survival rate | - | About 75-80% |
| 8h | Water sprinkling on roads to control airborne dust | - | To control the air borne dust , sprinkling of water reported on haul road. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | - | - |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|----|---|--|---|--|
| 9a | Status of submission of Monthly and Annual returns | (AR-2015-16)=The land used details reported (2015-16) is- Area covered under current O/C workings is 3.1Ha & road etc is 00.1Ha. | The lessee is regular in submission of monthly/annual return online. | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Shri Basappa.D.Band rolli, Mine foreman & Manager. | The mining engineer/Geologist has not been appointed recently. | Shri Raveesh H,Geologist, (Msc Earth Science & Resourcement Management) WEF 01.3.2015 Form-I Submitted to this office. |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | (AR-2015-16)=The land used details reported (2015-16) is- Area covered under current O/C workings is 2.4Ha & Plant, bldg & road etc is 1.02Ha. | - | |
| 9d | Scrutiny of Annual return on afforestation | 125no. of saplings planted during the year & Survival Reported is good. | Good plantation done near mine office & with in 7.5m of barrier & OML also. | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | NA | NIL | |

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|----|---|---|--|
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | AR2015-16-{BF - Grade}-Opening Stock- 3102.910T, Production- 32,900T, Dispatch- 30499.999T, Closing stock- 5502.911 | - |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Ex Mine Price- 400Rs./T & Cost of Production- 204Rs./T | The lessee has submitted the selling details i.e. registered name of party etc in part-VI,Para-5.0.in online return submitted. |
| 9h | Scrutiny of Annual return on fixed assets | Fixed assets shown in annual return submitted. | - |
| 9k | Scrutiny of Annual return on mining machineries | A-category other than fully mech. mine, Bach Hoe loader J/H drilling & Air compressor used, tippers of 10T etc. | As above machinery is being using. |

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 |

Date :

(GUMNA RAM)

Indian Bureau of Mines