

**INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**

MCDR INSPECTION REPORT

Goa regional office

Mine file No : MAH/SDG/SLS-48/GOA

Mine code : 54MSH28051

- (i) Name of the Inspecting : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : **SHRI.KAILASH JHA, (M.M)**
Official with
Designation
- (iv) Date of Inspection : 26/11/2014
- (v) Prev.inspection date : 18/09/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **C.V. MAHADIK MINES**
- (b) Category : A Other Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
- State : MAHARASHTRA
- District : SINDHUDURG
- Village : KASARDA
- Taluka : KANKAWALI
- Post office : KASARDA
- Pin Code : 416801
- FAX No. :
- E-mail :
- Phone : 02367-240214
- (e) Police Station :
- (f) First opening date : 01/10/1993
2. Address for : At & Post: Kasarde
correspondance Taluka : Kankavali
Sindhudurg 416801
3. (a) Lease Number : MSH0217
- (b) Lease area : 63.26
- (c) Period of lease : 20
- (d) Date of Expiry : 15/11/2012
4. Mineral worked : SILICA SAND Main

5. Name and Address of the

Lessee : C.V.Mahadik
 2, Chamor Bagwala Chel Dr.
 B.A.Road Parel, Mumbai
 SINDHUDURG MAHARASHTRA
 Phone:
 FAX :

Owner : C.V.Mahadik
 2, Chamarbagwala chawl Dr.
 B. A . Road, Parel, Mumbai
 SINDHUDURG MAHARASHTRA
 Phone:
 FAX :

| |
|--|
| Manager Name : Kailash Jha Qualification : Second Class Manager Appointment/ : 10/01/2007 Termination date |
|--|

6. Date of approval of Mining : 16/04/2002
 Plan/Scheme of Mining

PART - II : TECHNICAL DETAILS/COMMENTS

1. Details about Average employment :

Maximum number of persons employed on any day during the year

| Employment category | No.of employment | Av. yearly working days |
|---------------------|------------------|-------------------------|
| DIRECT | | |
| Managerial | 1 | 300 |
| Supervisory | 13 | 300 |
| CONTRACT | | |
| Workers | 16 | 300 |

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towards socio-economic development.

| Action during the year | Expenditure in Rs. Lakhs for | | | | Remarks |
|-------------------------------|------------------------------|-------------|--------------|-------------|---------|
| | previous year | | current year | | |
| | Proposed | Incurred | Proposed | Incurred | |
| General | | | | | |
| Safety | 0.00 | 0.00 | 0.00 | 0.00 | |
| Water supply | 0.00 | 0.00 | 0.00 | 0.00 | |
| Sanitation | 0.00 | 0.00 | 0.00 | 0.00 | |
| Medical facility | 0.00 | 0.00 | 0.00 | 0.00 | |
| Housing | 0.00 | 0.00 | 0.00 | 0.00 | |
| Health | 0.00 | 0.00 | 0.00 | 0.00 | |
| Sub total | 0.00 | 0.00 | 0.00 | 0.00 | |
| Infrastructure | | | | | |
| Public transport | 0.00 | 0.00 | 0.00 | 0.00 | |
| Electricity | 0.00 | 0.00 | 0.00 | 0.00 | |
| Communication | 0.00 | 0.00 | 0.00 | 0.00 | |
| Roads | 0.00 | 0.00 | 0.00 | 0.00 | |
| Sub total | 0.00 | 0.00 | 0.00 | 0.00 | |
| Sports activities | 0.00 | 0.00 | 0.00 | 0.00 | |
| Others | 0.00 | 0.00 | 0.00 | 0.00 | |
| Employment | 0.00 | 0.00 | 0.00 | 0.00 | |
| Environment management | 0.00 | 0.00 | 0.00 | 0.00 | |
| Recreation | 0.00 | 0.00 | 0.00 | 0.00 | |
| Training | 0.00 | 0.00 | 0.00 | 0.00 | |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | |

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

Last inspection was carried out on 18.09.2013 and violation issued under Rule 23(E)(2) and 24(1). It was complied on 05.12.2013. Recently the Mine was inspected under MCDR inspection on 26.11.2014 and following violation of 13 (1), 23(E)(2) and 63 has been pointed out to lessee on 05.12.2014

4. A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988, if recommended.

Suitable follow up action will be initiated under rule 13(2), if compliance of rule 13(1) is not found satisfactory within stipulated period

5. Scientific Mining

| Items | Proposal | Actual work done | Remarks |
|-------|----------|------------------|---------|
|-------|----------|------------------|---------|

A. Exploration (Rule 13)

| | | | |
|--|------------------------------|-----|---------------------------------------|
| a.Type of prospecting and exploration i.e. pitting, drilling | : 1 BH proposed in 2013-2014 | Nil | Violation under 13(1) has been issued |
| b.Total area covered | : 0.5 Hectares | Nil | |

B. Working (Rule 13)

| | | |
|---|-------------|----------|
| a.Number and size of each pit (LxWxH) | : 150*15*10 | |
| b.Bench size(LxWxH)length can be defined as regular/irregular | : Regular | Regular |
| c.Ore to waste ratio pit wise if possible otherwise for mine | : 1 : 0.12 | Nil |
| d.Total area covered under excavation/pits | : 9.900 ha | 4.900 ha |

C. Waste disposal (Rule 13)

| | | |
|--|-------------------------------|---|
| a.Location of dumps | : Existing Dump nearer to pit | Nil |
| e.Yearly generation of waste quantity. | : 28973 tons for 2013-2014 | Due to no mining there is nil generation of waste |
| b.Method of dumping whether advancing/retreat | : Advancing | Nil |
| c.Total area covered under waste dump. | : Nil | 2.00 Ha |
| d.No.and size of each waste dump with No of steps/lift/bench | : Single | Single |

D. Production

| | | |
|---|---|---|
| b.Year wise production of last five year. | : 2009-2010 = 25000 Tons 2010-2011 = 25000 Tons 2011-2012 = 50000 Tons 2012-2013 = 50000 Tons 2013-2014 = 240000 Tons | 2009-2010 = 14310 Tons 2010-2011 = 32020 Tons 2011-2012 = 24670 Tons 2012-2013 = 31220 Tons 2013-2014 = Nil |
|---|---|---|

D. Reserve

| | | | |
|---|---|--|---|
| a.Reserve position as per latest MP/MS and at the time of inspection. | : As on Approved Mining Plan:- Proved Mineral Reserves (111) = 4908050 Tons Probable Mineral Reserves (121) | As on Inspection Proved Mineral Reserves (111) = 5148050 Tons Probable Mineral Reserves (121) = 2462210 Tons | Due to no mininig reserves in not changed |
|---|---|--|---|

2462210 Tons

RESERVE POSITION AS ON 01/04/2014**SILICA SAND**

| Category | Quantity in Tonnes | Grade |
|----------|--------------------|--------------------------|
| Proved | 5148050 | SiO2=98.75%, Al2O3=0.50% |
| Probable | 24622101 | SiO2=98.75%, Al2O3=0.50% |
| Possible | 369576 | SiO2=98.75%, Al2O3=0.50% |
| Total | 30139727 | SiO2=98.75%, Al2O3=0.50% |

PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014

| Mineral | Production | Unit |
|-------------|------------|------|
| SILICA SAND | 0 | TON |

6. Conservation of Mineral - both quantitative and qualitative**Beneficiation (Rule 20 and 26)**

Efforts for improving low grade and sub grade mineral. : Washing Plant and Screening plant are constructed for improving

Efforts for improving percentage of recovery of ore. : Washing Plant and Screening plant are constructed for improving percentage

Mineral Rule 15

Percentage of recovery of ore : 95% Proposal, but there is no mining from 2012-2013 pitwise w.r.t. ROM and total material

Number of benches in ore and waste. : One Bench in Waste & Two Benches in Ore

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : No Subgrade Mineral is being Generated

Number and size of each stack : No Subgrade Mineral is being Generated

Location of stacking. : No Subgrade Mineral is being Generated

Separate stacking from waste : No Subgrade Mineral is being Generated

Total area covered for stacking : No Subgrade Mineral is being Generated

Exploration data as on 31/03/ 2014

| No. of Boreholes | No. of Pits | No. of Trenches |
|------------------|-------------|-----------------|
| 0 | 0 | 0 |

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2013 - 2014

| | |
|------------------------------------|---|
| Overburden/waste removed (in m3) : | 0 |
|------------------------------------|---|

Utilisation of Sub Grade Mineral and Mineral Rejects

| Generated | Utilised | Stacked | (In Ton.) |
|-----------|----------|---------|-----------|
| | | | |

7. Environment Management - both quantitative and qualitativ**A. Land environment**

- a. Landscape. : Plain undulated terrain partly plain and hilly
- b. Aesthetic environment : Degraded mining land
- c. Soil and land use pattern : No topsoil existing
- Landuse Pattern:
 Area Excavated = 4.900 Ha
 Infrastructure = 0.0296 Ha
 Roads = 0.363 Ha
 Mineral Separation Plant = 0.1050 Ha
 Green belt = 0.030 Ha
 Waterpit = 3.6085 Ha
 unused area = 54.2241 Ha
- d. Agriculture : No agriculture inside the lease area
- e. Forest(flora and fauna) : No forest land
- f. Vegetation : Scanty bushes, mango and cashew & fruit plantation
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : None

B Water environment.

- a. Surface water : No perennial water courses observed.
- b. Ground water : No seepage of ground water observed. However rainy water accumulated in the pit which is used for sand washing
- c. Quality of water : Nothing adverse is reported.

C. Air environment

- a. Noise : survey has been done, nothing adverse is reported
- b. Air : survey has been done, nothing adverse is reported
- c. Climatic condition : Predominant wind direction is towards East and Northeast, nothing adverse is reported

D. Socio economic environment

- a. Social and demographic profile. : The population of rural background exists in nearby villages/ area with main occupation of agriculture and animal rearing.
- b. Recommending health and safety. : Hospitals/Clinics are existing at kankvali at 30km away from ML.
- c. Human settlement : There are 3 villages existing in nearby areas within 5km radius from ML.
 Kasarde= 11776 Persons
 Tondawali=868 Persons
 Kokisare = 2343 Persons
- d. Recreational facility. : Available at Kankavali taluka HQ.

7.1 Comments on the steps taken by the lessee towards maintaining environment and monitoring of environmental parameters to ensure the qualitative improvement in the environment and ecology.

| Season | Station type | Station name | Parameter | Value | |
|--------|--------------|--------------|-----------|--------|--------|
| | | | | Actual | Excess |

Air data for excess parameters

| Season | Station name | Type of area | Parameter | Value | |
|--------|--------------|--------------|-----------|--------|--------|
| | | | | Actual | Excess |

PLANTATION DURING THE PREVIOUS YEAR 2013 - 2014

Area in Hect.

TOP SOIL MANAGEMENT

Quantity as on 31/03/2014

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

Scrutiny of annual returns for the year 2013-2014 is mentioned below.

Cost of Production = Rs.250/ Ton.

Production = Nil, Opening Stock = 27264 Tons

Dispatch = 19160 Tons, Closing stock = 8104 Tons

Reserves

Proved Mineral Reserves (111) = 5148050 Tons

Probable Mineral Reserves (121) = 2462210 Tons

Landuse Pattern:

Area Excavated = 4.900 Ha

Infrastructure = 0.0296 Ha

Roads = 0.363 Ha

Mineral Separation Plant = 0.1050 Ha

Green belt = 0.030 Ha

Waterpit = 3.6085 Ha

unused area = 54.2241 Ha

PART - III : PERFORMANCE OF MINE OWNER
(In case of lease expiring within 2 years - as per guidelines)

a. Compliance of terms and conditions of lease deed.

Name of Mine:Kasarde Silica sand mine
Location:- Kasarde Village, Kankavali Taluka, sindhudurg District, Maharashtra State.
Grand of Lease = 16.11.1992.
Expiry of Lease = 15.11.2012.
Period of Lease = 20 years
Renewal applied on 02.11.2011 for 20 years

b. Compliance of the provisions of MCDR, 88 and advise given.

Mining is temporally closed from March 2013, due to not having valid mining lease and EC. Renewal applicaion has been submitted to DMG office on 02.11.2011. Advice to get the Lease renewal and EC as soon as Possible.

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

Nil

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

Renewal of mining lease is pending with state DMG & Mining has been temporally closed due to no valid lease & boundary of lease pillars has not been made as per statute. Action may be taken for the above issues.

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

EC is pending with MoEF & Mining has been temporally closed due to no valid EC.

Date :

(G. S. KANNAN)

Indian Bureau of Mines