INDIAN BUREAU OF MINES MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/LST/SNG/MCDR-12/BBS Mine code : 380RI13028

(i) Name of the Inspecting: 25) SHRI IBRAHIM SARIF

Officer and ID No.

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine : Mr M Jha

Official with Designation

(iv) Date of Inspection : 04/03/2015
(v) Prev.inspection date : 27/06/2013

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KHATKURBAHAL (72.44 HA)

(b) Category : B Manual(c) Type of Working : Opencast

(d) Postal address

State : ORISSA

District : SUNDARGARH

Village : KHATKURBAHAL

Taluka : RAJGANGPUR

Post office : KHATKURBAHAL

Pin Code : 770018

FAX No. : 0661-4400172

E-mail : rkl_sivacem@sancharnet.in

Phone : 0661-4400828,168,080, 42450

(e) Police Station :

(f) First opening date : 01/04/1998

2. Address for : KHATKURBAHAL LIMESTONE MINE, M/S SHIVA CEMENT LTD

correspondance P.O.KHATKURBAHAL, DIST:SUNDERGRAH

ORISSA-770018

3. (a) Lease Number : ORIO733
(b) Lease area : 72.44
(c) Period of lease : 20

(d) Date of Expiry : 14/01/2012

4. Mineral worked : DOLOMITE Associated

LIMESTONE Main

5. Name and Address of the

Lessee : SHIVA CEMENT LTD.

CIVIL TOWNSHIP ROURKELA

SUNDARGARH ORISSA

Phone: 0661-4400828, 168, 080

FAX :0661-4400172

Owner : SHIVA CEMENT LTD

CIVIL TOWNSHIP ROURKELA

SUNDARGARH ORISSA
Phone: 0661-4400828,16
FAX : 0661-4400172

Manager

Name : JYOTINDRA BEHERA
Qualification : DIPLOMA IN MINING

Appointment/:
Termination date

6. Date of approval of Mining :

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	2	306
Workers	8	306
CONTRACT		
Workers	36	306

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

Action during the year Expenditure in Rs. Lakhs for Remarks

previous year current year

Proposed Incurred Proposed Incurred

General
Infrastructurable total

Sub total

Total

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

violation of rule 13(1) of MCDR 1988 in respect of construction of retaining wall along bottom periphery of waste dump was pointed out earlier on 28.08.2013. During current inspection earlier violation was observed complied. Further violation of rule 13(1) of MCDR 1988 was pointed to the party vide this office letter dated. 06.04.2015

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, 19888, if recommended.

Not at present

5. Scientific Mining

Items	Proposal	Actual work done	Remarks	
A. Exploration (Rule 13)				
<pre>a.Type of prospecting : 4 and exploration i.e. h pitting, drilling</pre>			violation was pointed out	
3. Working (Rule 13)				
a.Number and size of : M each pit (LxWxH) x	ain Quarry : 300 : 200 x 30	Main Quarry : 280 x 180 x 30		
b.Bench : 5 size(LxWxH)length can w be defined as regular/irregular	m height, 5m idth, regular		deviation was pointed out	
<pre>c.Ore to waste ratio : 1 pit wise if possible otherwise for mine</pre>	: 0.057	1 : 0.15		
<pre>d.Total area covered : 7 under excavation/pits</pre>	.516 На	6.40 На		
C. Waste disposal (Rule 1	3)			
C	orth Eastern orner of lease rea	North Eastern corner of lease area at earmarked place		
<pre>e.Yearly generation : 1 of waste quantity.</pre>	5300 cum	8000 tonnes		
<pre>b.Method of dumping : R whether advancing/retreat</pre>	etreating method	Retreating method		
<pre>d.No.and size of each : o waste dump with No of t steps/lift/bench</pre>		one with 1 (one) no. of terrace		
O. Production				
b.Year wise : 2 production of last M five year.	013-14 : 264384 T	2013-14 : 53090 MT		
D. Reserve				
a.Reserve position as: per latest MP/MS and at the time of inspection.		Proved Geological Reserves: 46266228 MT Probable Geological Reserves: 5740875 MT		

RESERVE POSITION AS ON 01/04/2014

Quantity in Tonnes	Grade	
46266228	>40% CaO	
5740875	>40% CaO	
52007103		
	46266228 5740875	46266228 >40% CaO 5740875 >40% CaO

	PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014	
Mineral	Production Unit	
LIMESTONE	53090 TON	

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6. Conservation of Mineral - both quantitative and qualitative

Beneficiation (Rule 20 and 26)

Efforts for improving low : Blending of low grade with high grade ore grade and sub grade mineral.

Minearl Rule 15

Number of benches in ore and : One bench in Waste

waste. Three no. of Benches in Ore

Exploration data as on 31/03/ 2014

No. of Boreholes No. of Pits No. of Trenches

24

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2013 - 2014

Overbuden/waste removed (in m3): 8000

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.

: The lease area represents almost flat terrain with gentle undulation

d. Agriculture

- : Agriculture field exist within lease area
- e. Forest(flora and fauna)
- : The Lease area is of Non-Forest land, common flora like Neem, Mango etc. area observed

f. Vegetation

- : The lease area is surrounded with scanty vegetation
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist
- : School building exist near by mines, muffle blasting being practiced

B Water environment.

- b. Ground water
- : Water table in the lease area is 8 meters from surface level, ground water table has been intersected by mining operations. No pollution of ground water due to mining activities
- c. Quality of water
- : Potable

C. Air environment

a. Noise

: Within permissible limit

b. Air

- : Within permissible limit
- c. Climatic condition
- : Sub tropical

D. Socio economic environment

- a. Social and demographic profile.
- : Peoples in the locality of lease area is mainly depend on Agriculture. About 57 no. of persons belonging to adjacent village of lease area has been employed in the mines.
- b. Recommending health and safety.
- : Initial and Periodical medical examination of workers employed in the lease area is being done on regular basis. Infrastructure facility for the government medical practioner is being provided by the lessee for medical camp.
- c. Human settlement
- : No Human settlement within the lease area. The human settlement exist nearvillages are mostly dominated by

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.

		Water Management		Value
Season	Station type	Station name	Parameter	Actual Excess

		Air data for excess parameters		
		_		Value
Season	Station name	Type of area	Parameter	Actual Excess

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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.

Cost of Production: Rs. 248.56

Reserves :

Proved Mineral Reserve 111 18221014.000 >40%CaO

Probable Mineral Reserve 121 and 122 797040.000 >40%CaO Feasibility Mineral Resource 211 27890811.000 >40%CaO

Prefeasibility Mineral Resource 221 and 222 4943835.000 >40%CaO

Production: 53090 MT Closing Stock: 2871 MT Pit Mouth Value: Rs. 248.46 Land use Pattern (in Ha):

(i) Covered under current (O/C) workings(ii) Used for waste disposal1.17

(iii) Occupied by plant, buildings, residential, welfare buildings & roads 3.23

Fixed Assets (Rs '000) : 57103

PART - III : PERFORMANCE OF MINE OWNER

(In case of lease expiring within 2 years - as per guidelines)

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

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

None

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

None

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

None

Date:

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines