

**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 :** 38ORI13028

- (i) Name of the Inspecting : **25** ) **SHRI IBRAHIM SARIF**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Toofan Singh, Geologist  
Official with  
Designation
- (iv) Date of Inspection : 10/03/2016
- (v) Prev.inspection date : 04/03/2015

**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 : ORI0733
- (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
<b>DIRECT</b>		
Managerial	2	305
Workers	8	305
<b>CONTRACT</b>		
Workers	36	305

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					
Infrastructure					
Sub total					
Sub total					
Total					

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

During earlier inspection violation of rule 13(1) of MCDR 1988 was pointed to the party vide this office letter dated. 06.04.2015 for non maintaining bench height and width

During current inspection earlier violation was observed not complied with.

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.

Not recommended at present

## 5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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**B. Working (Rule 13)**

a.Number and size of : each pit (LxWxH)		330X 200 X 30	
b.Bench : Regular 10m x 5 m size(LxWxH)length can be defined as regular/irregular		Regular 10m x 15 m	
c.Ore to waste ratio : pit wise if possible otherwise for mine		Nil	
d.Total area covered : under excavation/pits		6.6 Ha	

**C. Waste disposal (Rule 13)**

c.Total area covered : under waste dump.		1.7 Ha	
e.Yearly generation : of waste quantity.		Nil	

**D. Production**

b.Year wise : 2014-15 : 120000 production of last five year.		2014-15 : 65710 MT 2015-16 : 67870 MT	
	2015-16 : 120000 MT		

**D. Reserve**

a.Reserve position as : per latest MP/MS and at the time of inspection.		Proved Geological Reserves : 46033688 MT Probable Geological Reserves : 5740875 MT	
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**RESERVE POSITION AS ON 01/04/2015**

<b>LIMESTONE</b>		
Category	Quantity in Tonnes	Grade
Proved	46033688	>40% CaO
Probable	5740875	>40% CaO
Possible		
Total	51774563	

**PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015**

Mineral	Production	Unit
LIMESTONE	65710	TON

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

Efforts for improving low grade and sub grade mineral : Low grade blend with high grade ore

**Mineral Rule 15**

Number of benches in ore and waste : Ore : 4 benches  
Waste : 1 bench

**Exploration data as on 31/03/ 2015**

No. of Boreholes	No. of Pits	No. of Trenches
24		

**OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015**

Overburden/waste removed (in m3) :	0
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**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
- c. Soil and land use pattern : Area in Ha.  
 (i) Covered under current (O/C) workings 6.6  
 (ii) Used for waste disposal 1.17  
 (iii) Occupied by plant, buildings, residential, welfare buildings & roads 3.23  
 (iv) Used for any other purpose (specify)  
 Area which will be utilised for expansion of quarry 6.8335
- 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), places of worship and places of tourist : Nil

**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 Tribes.

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.

<u>Water Management</u>					
Season	Station type	Station name	Parameter	Value	
				Actual	Excess

<u>Air data for excess parameters</u>					
Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

<u>PLANTATION DURING THE PREVIOUS YEAR</u>			<u>2014 - 2015</u>			Area in Hect.
Within lease area			Outside lease area			
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate	
.2	200	30	0	0	0	

<u>TOP SOIL MANAGEMENT</u>	
Quantity as on 31/03/2015	

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. 336.26

Reserves :

Proved Mineral Reserve 111	18155304.000	>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 : 65710 MT

Closing Stock : 5932.64 MT

Pit Mouth Value : Rs. 248.56

Land use Pattern (in Ha) :

(i) Covered under current (O/C) workings	6.6
(ii) Used for waste disposal	1.17
(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