INDIAN BUREAU OF MINES MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/LST-DOL/SNG/MCDR-2/BBS Mine code : 380RI13003

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

Officer and ID No.

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine : Shri A K Barik, Mines manager and Shri V Dungdung, Ge

Official with Designation

(iv) Date of Inspection : 11/03/2016
(v) Prev.inspection date : 04/03/2015

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BIRMITRAPUR

(b) Category : A Other than Fully Mech.

(c) Type of Working : Opencast

(d) Postal address

State : ORISSA

District : SUNDARGARH

Village : BIRMITRAPUR

Taluka : BIRMITRAPUR

Post office : BIRMITRAPUR

Pin Code : 770033

FAX No. : 0661-2610270

E-mail :

Phone : 0661-2610270

(e) Police Station :

(f) First opening date : 01/01/1922

2. Address for : BIRAMITRAPUR LIMESTONE & DOLOMITE MINE

correspondance VILL-RAIPUR, BANUMUNDA

PO-BIRAMITRAPUR

3. (a) Lease Number : ORI0011
(b) Lease area : 793.97
(c) Period of lease : 10

(d) Date of Expiry : 29/02/2000

4. Mineral worked : DOLOMITE Associated

LIMESTONE Main

5. Name and Address of the

Lessee : BISRA STONE LIME CO. LTD

BIRAMITRAPUR SUNDERGARH
DISTRICT ORISSA SUNDARGARH

ORISSA Phone: FAX :

Owner : Bisra Stone & lime company ltd

Birmitrapur SUNDARGARH

ORISSA

Phone: 0661-610202.

FAX :

Agent : T.C.SEI

M/S BISRA STONE LIME CO LTD BIRAMITRAPUR SUNDARGARH

ORISSA
Phone:
FAX:

Mining Engineer

Name : A.K.BARIK, Full Time

Qualification : AMIE(MINING)
Appointment/ : 14/09/1992

Termination date

Mining Engineer

Name : S.S. MISHRA, Full Time

Qualification : A.M.I.E

Appointment/ : Termination date

Geologist

Name : V DUNGDUNG, Full Time

Qualification : MSC GEOLOGY Appointment/ : 30/12/1992

Termination date

6. Date of approval of Mining : 27/08/2014

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	4	164
Supervisory	28	164
Others	125	
Workers	161	
CONTRACT		

Workers 72

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.

There was no outstanding violations. During current inspection violations of rule 13(1), 23(5) and 45(7) of MCDR 1988 were observed.

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 recommended

5. Scientific Mining

Items	Proposal	Actual work done	Remarks

A. Exploration (Rule 13)

a. Type of prospecting: Dolomite

and exploration i.e. 79 no. of Bore holes in

pitting, drilling Dolomite over 3048

> meters Limestone

55 no. of bore holes in Limestone over 3136

meters

b.Total area covered : Limestone:

> G1 level Quarry Block :190.848 Ha G2 Level Non Quarry

Block 65.6 Ha

Dolomite :

G1 level Quarry Block :156.552 Ha G2 Level Non Quarry

Block 38.24 Ha

B. Working (Rule 13)

b.Bench : Height 8 meters Height 8 meters size(LxWxH)length can Width more than Width more than height

be defined as height

regular/irregular

d.Total area covered : 179.12 Ha 159.61 Ha

under excavation/pits

C. Waste disposal (Rule 13)

a.Location of dumps 17 no. of dumps are

exist in the lease area.

Only Dump no. 4 is

active one.

e.Yearly generation : Limestone : 10,800 Limestone : Nil

of waste quantity.

Dolomite : Nil

Dolomite : Nil

b.Method of dumping : Retreating Retreating

whether

advancing/retreat

c.Total area covered : 41.112 Ha 34.402 Ha

under waste dump.

D. Production

: Limestone : b.Year wise Limestone: 2229.000 T production of last 2715200 T Dolomite : 102498.500

Dolomite : five year. Т

2407638 T

D. Reserve

a.Reserve position as: per latest MP/MS and at the time of

inspection.

Limestone: Reserves :111- 119.65;

in Million Tonnes

122- 35.28

Resources :211 - 37.24; 221-35.07; 222- 33.73.

Dolomite:

Reserves : 111- 83.62;

122 - 33.78

Resources: 211 - 12.11; 221 - 10.45; 222 -

26.23.

RESERVE POSITION AS ON 01/04/2015

Quantity in Tonnes	Grade
119650000	+42% CaO
35280000	+42% CaO
106040000	+42% CaO
260970000	
Quantity in Tonnes	Grade
83620000	+19% MgO
33780000	+19% MgO
48790000	+19% MgO
	119650000 35280000 106040000 260970000 Quantity in Tonnes 83620000

	PRODUCTION FOR THE PREVIOUS	ZEAR_	2014 - 2015
Mineral	Production	Unit	
LIMESTONE	2229	TON	
DOLOMITE	102498.5	TON	

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6. Conservation of Mineral - both quantitative and qualitative

Beneficiation (Rule 20 and 26)

Efforts for improving low grade and sub grade mineral. : There exist 17 no. of dumps. As these dumps are old in nature analysis of these as per revised threshold value of Limestone [35% CaO (Min), MgO-4% (Max) & SiO2 -18%(max)] and Dolomite [Mgo 15% (min) & SiO2 -6% (max)] for possible recovery of limestone and dolomite.

Further the rest dump material is in the process of sell as mineral reject/ road material.

Efforts for improving percentage of recovery of ore.

: Where grade is not uniform, manual labours are engaged for sorting and sizing of reject from Blasted material.

Minearl Rule 15

Percentage of recovery of ore: For both Limestone & Dolomite

pitwise w.r.t. ROM and total

material

Recovery of Ore is 80%

Recovery of Sub grade Ore is 10%

Exploration data as on 31/03/ 2015

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

55

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015

Overbuden/waste removed (in m3):

Utilisation of Sub Grade Mineral and Mineral Rejects

Generated Utilised Stacked (In Ton.)

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7. Environment Management - both quantitative and qualitativ

A. Land environment

a. Landscape.

: The general topography of the area represents gently undulating terrain covered with soil and alluvium to a great extent and gently sloping from SSE to NNE direction. The highest elevation of the lease area is 343.6 m and lowest elevation is 237.2 m.

c. Soil and land use pattern

: Mining : 159.61 Ha Overburden: 34.202 Ha Infrastructure : 14.12 ha

Road : 10.08 Ha

Railway line/ Magazine : 6.64 Ha

Township area : 17.60 Ha

Mineral seperation plant : 5.50 ha

and monuments (protected, historical), placec of worship and places of tourist

h. Public building, places : No such Public building, places and monuments (protected, historical), placec of worship and places of tourist exist in the lease area.

B Water environment.

a. Surface water

- : The drainage pattern in the lease area is controlled by the hill slopes. No river / nala is found in the lease area. The river Lurgi flowing at western side of the lease area and daitari nala flowing at eastern side of lease area.
- b. Ground water
- : Ground water has not been affected by mining operations. Tube wells have been dug in the village of Birmitrapur and used for drinking purpose.

D. Socio economic environment

c. Human settlement

- : 17.60 Ha area of lease has been occupied by Township. The mining operation in the M L area will have positive impact on the economy of the local people. About 1000 peoples are directly employed in the mine.
- 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 Managemen	<u>t</u>	Value
Season	Station type	Station name	Parameter	Actual Excess

		Air data for excess parameters	1
			Value
Season	Station name	Type of area	Parameter Actual Excess

PLANTATION DURING THE PREVIOUS YEAR 2014 - 2015

Area in Hect.

	Within lease a	area		Outside lease	e area
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate
1	2500	85			

TOP SOIL MANAGEMENT
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.

2014-15

(1) Production Limestone Dolomite

2229.000 MT 102498.500 MT

(2) Pit mouth value Rs. 408 Rs. 592

(3) Closing Stock 427030.63 MT 336271.82 MT

(4) Cost of production: Rs.1192.84

(5) Reserves:

Limestone:

Reserves :111- 119.65; 122- 35.28

Resources :211 - 37.24; 221-35.07; 222- 33.73.

Dolomite:

Reserves : 111- 83.518; 122 - 33.78

Resources: 211 - 12.11; 221 - 10.45; 222 - 26.23.

- (6) Lease area (surface area) utilisation as at the end of year (hectares)
- (i) Covered under current (O/C) workings : 160.11
- (ii) Used for waste disposal 34.2
- (iii) Occupied by plant, buildings, residential, welfare buildings & roads: 53.94
- (7) Value of Fixed Assets* (Rs.'000): 23688.06

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.)

Lease was executed over reduced area of 793.043 Ha in Single block from original lease area of 1099.303 Ha in Six blocks without compliance of rule 23(5) of MCDR, 1988 approval of Final mine closure plan for 306.26 Ha.

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

None

Date:

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines