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 Officer and ID No.	:	25) SHRI IBRAHIM SARIF
(ii)	Designation	:	Assistant Controller Mine
(iii)	Accompaning mine Official with Designation	:	Shri A K Barik, Mines manager and Shri V Dungdung, Ge
(iv)	Date of Inspection	:	04/03/2015

(v) Prev.inspection date : 11/08/2012

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.		ess for espondance	:	BIRAMITRAPUR LIMESTONE & DOLOMITE MINE VILL-RAIPUR,BANUMUNDA PO-BIRAMITRAPUR
3.	(b) (c)	Lease area Period of lease	:	ORI0011 793.97 10
4.	(d) Mine	Date of Expiry ral worked		29/02/2000 DOLOMITE Associated LIMESTONE Main

5.	Name	and Address of th Lessee	e 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/ Termination date	
		Mining Engineer	
		Name	S.S. MISHRA, Full Time
		Qualification Appointment/ Termination date	
		Geologist	
			V DUNGDUNG,Full Time
		Qualification	
		Appointment/	
6.		of approval of M Scheme of Mining	ining : 27/08/2014
			PART - II : TECHNICAL DETAILS/COMMENTS
1	. De	tails about Avera	ge employment :
			persons employed on any day during the year

Maximum number of persons employed on any day during the year

Employment category

No.of employment Av. yearly working days

2. Community Developme expenditure towords	-		-	Proposed act	ion and
Action during the year Expenditure in Rs. Lakhs for					Remarks
	previous year		current year		_
	Proposed	Incurred	Proposed	Incurred	
General Infrastructur s ub 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. No violations were observed during current inspection of mines.

 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 : and exploration i.e. pitting, drilling		Dolomite 79 no. of Bore holes in Dolomite over 3048 meters Limestone 55 no. of bore holes in Limestone over 3136 meters	
b.Total area covered :		Limestone: Gl 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)			
<pre>b.Bench : size(LxWxH)length can be defined as regular/irregular</pre>		Height 8 meters Width more than height	
d.Total area covered : under excavation/pits	179.12 ha	159.61 ha	
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 : of waste quantity.	192932 Cubic meter	12734 MT	
b.Method of dumping : whether advancing/retreat	Retreating	Retreating	
c.Total area covered : under waste dump.	41.112 На	34.402 ha	
D. Production			
production of last five year.	2013-14 Limestone : 26,18,400 MT Dolomite : 12,89,850 MT Page	2013-14 Limestone : 17,683.53 MT Dolomite : 4,78,224.78 MT	

D. Reserve

a.Reserve position as : per latest MP/MS and at the time of inspection. Limestone (in Million tonnes): 111 : 119.65 122 : 35.28 211 : 37.24 221 : 17.19 222 : 23.38 222 : 5.07 222 : 5.28 Dolomite : 111 : 83.78 122 : 33.78 211 : 12.11 221 : 10.45 222 : 22.01 Mgo +19% 222 : 4.22, MgO +15% to 19%

RESERVE POSITION AS ON 01/04/2014

DOLOMITE					
Category	Quantity in Tonnes	Grade			
Proved	83620000	+19% MgO			_
Probable	33780000	+19% MgO			
Possible	48790000	+19% MgO			
Total	166190000	+19% MgO			
LIMESTONE					
Category	Quantity in Tonnes	Grade			
Proved	119650000	+42% CaO			_
Probable	35280000	+42% CaO			
Possible	106040000	+42% CaO			
Total	260970000				
	PRODUCTION FOR	R THE PREVIOUS	YEAR	2013 - 2014	
Mineral		Production	Unit		
LIMESTO	NE	17683	TON		
DOLOMIT	E	378224	TON		

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 nature analysis of these as per revised threshold value of Limestone [35% CaO (Min), MgO-4% (Max) & S -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.	i02
Efforts for improving percentage of recovery of ore. Minearl Rule 15	Where grade is not uniform, manual labours are engage for sorting and sizing of reject from Blasted material.	ged

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%

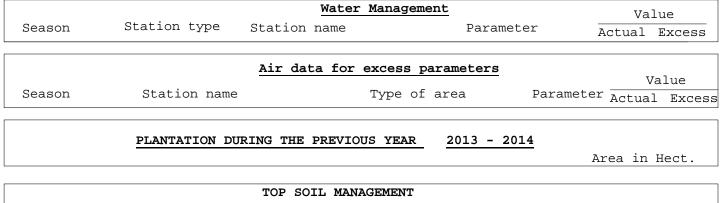
	Exploratio	on data as on 31/0	03/ 2014	
No. of Boreholes		No. of Pits	No.	of Trenches
55				
OVERBUR	DEN HANDLED	DURING PREVIOUS Y	EAR 2013 - 2014	
Overbuden/waste remo	ved (in m3)	: 12734		
Utilis	ation of Sub	Grade Mineral and	d Mineral Rejects	
G	enerated	Utilised	Stacked	(In Ton.)

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



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.

2013-14 Production Limestone Dolomite 17683 MT 378224.780 MT Pit mouth value Rs.408 Rs. 477 Closing Stock 424801 MT 341282 MT Cost of production : Rs.1192.84 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. 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

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