

INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

MCDR INSPECTION REPORT

Jabalpur regional office

Ext DB
LA

Mine file No : MP/SATNA/LST-333

Mine code : 38MPR35309

- (i) Name of the Inspecting Officer and ID No. : NQ06) P.NAHAR
(ii) Designation : Assistant Mining Geologis
(iii) Accompanying mine Official with Designation : Sh. Pramod Tiwari, Assistant Manager (Survey)
(iv) Date of Inspection : 10/03/2016
(v) Prev.inspection date : 23/05/2013

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BIRHULI (56.20 HA)
(b) Category : A Fully Mechanised
(c) Type of Working : Opencast
(d) Postal address :
State : MADHYA PRADESH
District : SATNA
Village : BIRHULI
Taluka : RAGHURAJ NAGAR
Post office : SAGMANIA
Pin Code : 485114
FAX No. : NA
E-mail : NA
Phone : NA
(e) Police Station : KOLGAWAN
(f) First opening date : 15/06/2009
2. Address for correspondence : M/S BIRLA CORPORATION LTD
SATNA CEMENTS WORKS
P.O. BIRLA VIKAS, SANTA (M.P.) 485005
3. (a) Lease Number : MPR2242
(b) Lease area : 56.27
(c) Period of lease : 20
(d) Date of Expiry : 30/12/2025
4. Mineral worked : LIMESTONE Main

9-7/12/16

5. Name and Address of the
 Lessee : BIRLA CORPORATION LTD
 SATNA CEMENTS WORKS P.O.
 BIRLA VIKAS, SANTA (M.P.)
 485005 SATNA MADHYA PRADESH
 Phone:N. A.
 FAX :N. A.
- Owner : BIRLA CORPORATION LIMITED
 BIRLA BUILDING, 9/1,
 R.N.MUKHERJEE ROAD
 KOLKATA WEST BENGAL
 Phone: N. A.
 FAX : N. A.
6. Date of approval of Mining : 01/08/2014
 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		
Supervisory	4	238
Managerial	4	238

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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 last inspection on 15/01/2014 violation of rule 45(5)(a) pointed out which was complied by the lessee. During current inspection violation of rules 13(1) & 42(1) (i) were observed and pointed out to the lessee on 21/04/2016 for compliance..

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.

Suspension of mining operations under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988 is not recommended at present.

A. H. C.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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A. Exploration (Rule 13)

b.Total area covered	: Entire area.	Not done.	
a.Type of prospecting and exploration i.e. pitting, drilling	: 4Nx/DTH BH	Not done.	A violation under rule 13(1) has been pointed.

B. Working (Rule 13)

b.Bench size (LxWxH) length can be defined as regular/irregular	: Top Soil 680x20-30x0.5m., O/B-720X20X4M., Lst 1-800x40x9m. & Lst 2-720x50x6m.	Top Soil 640x36x0.5 to 1m., O/B-800X20X2-4M., Lst 1-840x50x7-9m. & Lst 2-740x30x2-4m.	Regular benches.
a.Number and size of each pit (LxWxH)	: One pit of sizes 640x340-540x20m.	One pit of sizes 620x300-440x20m.	
c.Ore to waste ratio pit wise if possible otherwise for mine	: 1:0.07	1:0.15	
d.Total area covered under excavation/pits	: 28.16ha.	22.940ha.	

C. Waste disposal (Rule 13)

a.Location of dumps	: Not Proposed	None	Entire waste has been used for reclamation & rehabilitation of mined out area of sagmania mine
b.Method of dumping whether advancing/retreat	: NA	NA	

D. Production

b.Year wise production of last five year.	: 14-15---- 6,00,000.00 Tonnes 15-16--- 6,00,000.00 Tonnes	14-15--2,85,735 Tonnes 15-16-3,52,705 Tonnes (Till Jan. 2016)	Less production is due to less requirement of the plant.
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D. Reserve

a.Reserve position as per latest MP/MS and at the time of inspection.	: NA	13.0295 m.t. (111) 1.080 m.t. (211)	
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RESERVE POSITION AS ON 01/04/2015

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LIMESTONE		
Category	Quantity in Tonnes	Grade
Proved	13029500	Cement
Probable		
Possible		
Total	13029500	Cement

<u>PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015</u>		
Mineral	Production	Unit
LIMESTONE	285735	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. : Not applicable, as all the ore recovered is used in cement making.

Efforts for improving percentage of recovery of ore. : Not applicable, as all the ore recovered is used in cement making.

Mineral Rule 15

Percentage of recovery of ore : 90% w.r.t R.O.M and 80% w.r.t. total material.
pitwise w.r.t. ROM and total material

Number of benches in ore and waste. : Soil-1No.
Hard OB-1 No.
Limestone 2Nos.
Two benches in ore and two benches in o.b.

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : Not applicable.

Number and size of each stack : Not applicable.

Location of stacking. : Not applicable.

Separate stacking from waste : No subgrade mineral.

Total area covered for stacking : Not applicable.

<u>Exploration data as on 31/03/ 2015</u>		
No. of Boreholes	No. of Pits	No. of Trenches
0	0	0

<u>OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015</u>	
Overburden/waste removed (in m3) :	32070

<u>Utilisation of Sub Grade Mineral and Mineral Rejects</u>			
Generated	Utilised	Stacked	(In Ton.)

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7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : Barren land without crops and soil exposed out crop at places.
- b. Aesthetic environment : No specific aesthetic beauty of the area except barren extent of land.
- c. Soil and land use pattern : Waste land.
- d. Agriculture : Nil
- e. Forest(flora and fauna) : NA.
- f. Vegetation : Few Bushes.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : There is no village in the lease area, no public places or monument within the lease or nearby the lease.

B Water environment.

- a. Surface water : There is no nala, river etc within the lease
- b. Ground water : The ground water level is about 20m below the ground surface..
- c. Quality of water : The quality of water is good and is drinkable.

C. Air environment

- a. Noise : The mining operation is mechanized, the noise level is low the noise level parameters are within limit.
- b. Air : The parameters are within permissible limit
- c. Climatic condition : The climatic condition is tropical. In summer temperature goes to 48degree and in winter the temperature goes down to 4degree.

D. Socio economic environment

- a. Social and demographic profile. : Within 5km 5 villages about 2000heads per village. Mixed population.agriculture and job in the plant and mines.
- b. Recommending health and safety. : There is no pollution hazard because of mining.
- c. Human settlement : Not within lease area.
- d. Recreational facility. : Only normal festivals and aided by the mine management.

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				
Season	Station type	Station name	Parameter	Value
				Actual Excess
Air data for excess parameters				

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Season	Station name	Type of area	Parameter	Value	
				Actual	Excess
<u>PLANTATION DURING THE PREVIOUS YEAR</u>			<u>2014 - 2015</u>	Area in Hect.	
TOP SOIL MANAGEMENT				Quantity as on 31/03/2015	

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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 2014-15 done in which :-
cost of Production:-268.04/t,
production:- 285735t,
pit mouth value :- 196.13,
fixed assets : Not Mentioned.
reserves-13980565t,
Closing Stock -Nil

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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.

As per amended MMDR Act 2015 it is not applicable.

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

c. Conduct with regard to adoption of safety measures and forest wealth, ecology and environment in the mining lease area.

d. Whether the mine owner has carried out exploration and exploitation on the basis on surface mapping, pitting, trenching and core drilling taking in to consideration the mode of occurrences of mineral deposit.

e. Whether production from mining area is commensurate with the reserves and the long term progress of utilization of mineral.

f. Whether adequate investment has been made by the lessee on the development of mine on mining machinery, operational and administrative building, residential accommodation for the employees.

g. Measures taken by the lessee for protection of environment and ecology.

h. In case leases where the mineralisation tends to exhaust within the present period, the status of closing operation in phases and the special issues including human issues to be addressed at the time of closing of mine.

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 :