

**INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**

MCDR INSPECTION REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST-333

Mine code : 38MPR35309

- (i) Name of the Inspecting : **C003**) **P.P.CHAKRABARTI**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri D.Roy AVP (Mines), Shri AK Jain DGM (Mines), Shr
Official with
Designation
- (iv) Date of Inspection : 23-MAY-13
- (v) Prev.inspection date : 16-DEC-11

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 :
Taluka :
Post office :
Pin Code :
FAX No. : NA
E-mail : NA
Phone : NA
- (e) Police Station : KOLGAWAN
- (f) First opening date : 15-JUN-09
2. Address for : M/S BIRLA CORPORATION LTD
correspondance : 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-DEC-25
4. Mineral worked : LIMESTONE Main

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 : 04-MAR-13
 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	3	359
Supervisory	1	359
Others	78	78
Plant	30	359
Workers	47	359

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					
Sanitation	8.00	8.00	8.00	37.27	
Water supply	30.00	15.00	30.00	100.96	
Health	30.00	20.00	25.00	20.00	
Safety	20.00	20.00	20.00	502.24	
Medical facility	100.00	50.00	75.00	50.00	
Housing	5.00	5.00	10.00	18.56	
Sub total	193.00	118.00	168.00	729.03	
Infrastructure					
Roads	8.00	8.00	4.00	19.00	
Public transport	0.00	0.00	0.00	0.00	
Communication	1.00	1.00	1.00	26.37	
Electricity	1.00	1.00	1.00	6.00	
Sub total	10.00	10.00	118.00	51.37	
Recreation	6.00	6.00	4.00	29.00	
Environment management	30.00	30.00	30.00	330.00	
Others	0.00	0.00	0.00	0.00	
Training	2.00	2.00	2.00	12.00	
Sports activities	0.00	0.00	0.00	0.00	including Recrea
Employment	314.00	314.00	314.00	*****	
Total	555.00	530.00	474.00	*****	

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

There is no outstanding violation. No violation was observed during the present inspection.

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.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
-------	----------	------------------	---------

A. Exploration (Rule 13)

- a.Type of prospecting : During the year
and exploration i.e. 2012-13 it was
pitting, drilling proposed to drill
10 boreholes of
30m each.
- During the year all the
boreholes were drilled.
The avg drilling depth
was 25.5m max. on
reaching shale at the
bottom drilling was
dropped.The whole of the
area was explored.
- b.Total area covered : NA.
- The whole of the area
was explored.

B. Working (Rule 13)

- a.Number and size of : There is only one
each pit (LxWxH) pit opened in the
lease area in
continuation of
the C quarry in
sagmania Mine. The
length of the pit
is L 640m width
320m depth 20m.
- There is only one pit
opened in the lease area
in continuation of the C
quarry in sagmania Mine.
The length of the pit is
L 640m width 320m depth
20m. worked in 4 benches
- b.Bench : There are 4
size(LxWxH)length can benches. Soil
be defined as bench 0.5m. thick
regular/irregular OB bench 2.5m.to
4m. thick. Below
it is limestone of
15m thick worked
in two benches.
The first bench is
of height 9m the
2nd bench is of
thicknes 6m.
- The mining operation is
as per proposal in the
approved scheme. The
only deviation is in
bench 2 of limestone
which could not be
developed because of
water at the bottom
bench.
- c.Ore to waste ratio : 1:0.19
pit wise if possible
otherwise for mine
- production in the year
2012-13 was 584279t. o.b
generated was soil
26320 m3 , waste rock
104022m3 t.
- d.Total area covered : Proposal in Qry.
under excavation/pits C, in
ob=360mx77m=27720m
2 and in
Ore=540mx30=16200m
2.
- pits :. 20.48ha

C. Waste disposal (Rule 13)

- a.Location of dumps : No external
dumping.
- No external dumping at
present . all the waste
o.b is back filled.
- e.Yearly generation : 114009 m3
of waste quantity.
- OB generated was soil
26320 m3 , waste rock
104022m3 t.
- b.Method of dumping : No external
- No external dumping at

whether advancing/retreat dumping. present . all the waste o.b is back filled.

c.Total area covered under waste dump. : No external dumping. No external dumping at present . all the waste o.b is back filled in adjoining Sagmania Mine.

d.No.and size of each waste dump with No of steps/lift/bench : No external dumping. No external dumping at present . all the waste o.b is back filled.

D. Production

b.Year wise production of last five year. : Proposed 12-13= 600000 T. The production during 2012-13 was 584279t.

D. Reserve

a.Reserve position as per latest MP/MS and at the time of inspection. : 15284279 T. 15284279 T. -(The production during 2012-13 was 584279t.) =14700000 T.

RESERVE POSITION AS ON 01/04/2013

LIMESTONE		
Category	Quantity in Tonnes	Grade
Proved	3454000	Cement grade.
Probable	11956000	Cement grade.
Possible	1004000	Cement grade.
Total	16414000	Cement grade.

PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013

Mineral	Production	Unit
LIMESTONE	584279	TON

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 pitwise w.r.t. ROM and total material : recovery of ore is 100%

Number of benches in ore and waste. : 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.

Exploration data as on 31/03/ 2013

No. of Boreholes	No. of Pits	No. of Trenches
0	0	0

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013

Overburden/waste removed (in m3) :	130342
------------------------------------	--------

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. : 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 : Mainly babul.
- h. Public building, places and monuments (protected, historical), places 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 30m 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.

<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

PLANTATION DURING THE PREVIOUS YEAR 2012 - 2013

Area in Hect.

TOP SOIL MANAGEMENT

Quantity as on 31/03/2013

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

PMV 153.13 rs /t stock nil,20.48 ha under use.

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.

Lease not expiring within two years hence 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.)

Nil.

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

Nil.

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

Nil.

Date :

(P.P.CHAKRABARTI)

Indian Bureau of Mines