

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

MCDR INSPECTION REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST-66

Mine code : 38MPR35113

- (i) Name of the Inspecting : **K018**) **KANHAIYA LAL**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sh. S.K.Sinha, Agent of the mine
Official with
Designation
- (iv) Date of Inspection : 15-MAR-16
- (v) Prev.inspection date : 16-MAR-11

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TILOURA (193.252 HA)**
- (b) Category : A Fully Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
State : MADHYA PRADESH
District : SATNA
Village : TILOURA, SIRMILLI
Taluka : MAIHAR
Post office : TILOURA
Pin Code : 485772
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (e) Police Station :
- (f) First opening date :
2. Address for : M/S MAIHAR CEMENT
correspondance P.O. SARLA NAGAR, MAIHAR,
DIST. SANTA (M.P.) 485772
3. (a) Lease Number : MPR0426
(b) Lease area : 193.25
(c) Period of lease : 20
(d) Date of Expiry : 23-APR-15
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : MAIHAR CEMENT
P.O. SARLA NAGAR, MAIHAR
SATNA MADHYA PRADESH
Phone: 07601-32043, 32067, 32068
FAX : 07674-322306, 0761-321881

Owner : CENTURY TEXTILES & INDUSTRIES LTD.
CENTUARY BHAWAN, DR. ANNI
BESENT ROAD, BAMBAY
AHMEDNAGAR MAHARASHTRA
Phone: 022-4300351
FAX : 022-4309491

Mining Engineer
Name : DEVESH GHULEY, Full Time
Qualification : B.E. (MINING)
Appointment/ :
Termination date

6. Date of approval of Mining : 06-MAY-15
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	1	305
Ministrial	2	305
Workers	18	305
Supervisory	3	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					
Housing					COMBINED WITH OT
Sub total					
Infrastructure					
Sub total					
Total					

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

The violation of rule 13(1) & 42 (1) (C) under MCDR,88 was observed at the time of previous inspection dt. 16/03/11 as mentioned in the previous MCDR inspection report. The violations of rule was complied . After the current inspection violation of rules 24(1) & 45 (5) (a) were observed and will be pointed out to the party for immediate 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.

5. Scientific Mining

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

- a.Type of prospecting : Not proposed for
and exploration i.e. the year 2014-15.
pitting, drilling
- b.Total area covered : Not proposed for
the year 2014-15.

None during the year.

None during the year.

B. Working (Rule 13)

- a.Number and size of : Length, width
each pit (LxWxH) proposed was
200x120x5m in
central block & -
270x48x6m western
block &
development of
top soil in
central block.

There was proposal
of central block which
was developed. During
inspection two pits of
sizes pit one in western
block -520X220X12M. &
pit 2 in central part -
310X180X12-14m observed
& presently working is
going on in pit as
proposed for the year
2015-16.

- b.Bench : Top soil to be
size(LxWxH)length can advanced & mineral
be defined as bench of sizes
regular/irregular 200x120x5m in
central block & -
270x48x6m western
block

There was proposal
of central block which
was developed. During
inspection two pits of
sizes pit one in western
block -520X220X12M in
this pit one ore & one
o/b bench of ht. .7 & 4
m. observed & pit 2 in
central part -
310X180X12-14m in which
three benches 1 in o/b
& 2 in mineral of ht.
4,5 & 5m. respectively
observed & presently
working is going on in
pit as proposed for the
year 2015-16.

- c.Ore to waste ratio : The production
pit wise if possible proposed was 5 lakh
otherwise for mine t. and waste
excavation
proposed was
278280m³

production achieved was
304157t. and o.b actual
achieved 23500m³

- d.Total area covered : About 3.5ha. in
under excavation/pits both blocks.

About 17.50ha. area
degraded upto 2014-15
end and as on date of
inspection about
18.75ha.

C. Waste disposal (Rule 13)

- a.Location of dumps : Along lease
boundary.

During inspection one
top soil dump of
80x30x3m. & three o/b
dumps of sizes
400x40x8m, 50x20x5m. &
120x25x5m. observed ,so

for.

e. Yearly generation of waste quantity : 278280m3 23500m3

b. Method of dumping whether advancing/retreat : Advancing. Dumping.

c. Total area covered under waste dump : About 2ha. About 6ha. area occupied by active 4 dumps.

d. No. and size of each waste dump with No of steps/lift/bench : About 2ha. over old dumps. During inspection one top soil dump of 80x30x3m. & three o/b dumps of sizes 400x40x8m, 50x20x5m. & 130x35x5m. observed ,so for.

D. Production

b. Year wise production of last five year. : 2010-11 TO 2014-15 2010-11 -37318T, 2011-12-354806T, 2012-13-324373T, 2013-14-368970T & 2014-15 -304156T.
-500000TONNES PER ANNUAM

D. Reserve

a. Reserve position as per latest MP/MS and at the time of inspection. : 40520000 tonnes NA

RESERVE POSITION AS ON 01/04/2015

LIMESTONE		
Category	Quantity in Tonnes	Grade
Proved	25670000	CEMENT GR
Probable	14850000	
Possible		
Total	40520000	

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

Mineral	Production	Unit
LIMESTONE	304157	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.

Efforts for improving percentage of recovery of ore : Waste patches are seperated handled during excavations.

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : About 80%.

Number of benches in ore and waste. : 1 in ore & 1 in OB.in pit 1 & 2 in ore & 1 in OB.in pit 1

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 : Sub grade mineral not generated hence Not applicable.

Total area covered for stacking : Not applicable.

Exploration data as on 31/03/ 2015

No. of Boreholes	No. of Pits	No. of Trenches
91	2	0

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015

Overburden/waste removed (in m3) :	20275
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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. : Alluvial ground with small hillock on the northern side.
- b. Aesthetic environment : good.
- c. Soil and land use pattern : Partly waste land partly agricultural land.
- d. Agriculture : Pulses, wheat, are the main crops in near by areas
- e. Forest(flora and fauna) : No forest within lease area.
- f. Vegetation : Mahua, mango, khair are the main trees in near by areas
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : None within lease area and surrounding.

B Water environment.

- a. Surface water : There is no nala, river etc within the lease.
- b. Ground water : The ground water level is about 26m 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 in small scale, the production 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 45degree and in winter the temperature goes down to 4 degree.

D. Socio economic environment

- a. Social and demographic profile. : Villages narawa 685, Tilora 1731, siloti 386.
- b. Recommending health and safety. : Company has provided medical facilities by running a hospital with facilities up to certain extent.
- c. Human settlement : Not within lease area.
- d. Recreational facility. : Company have recreation club having all facilities at Sarlanagar Nagar colony.

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 2014 - 2015

Area in Hect.

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.

Production 304157t, reserve 25.67 MT., Ex mine price 190.28Rs/t, stock- nil. in submitted annual return for the year 2014-15.

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.

Not Applicable as per MMDR 2015 Lease period for captive mine is extended upto 2030.

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

Not Applicable as per MMDR 2015 Lease period for captive mine is extended upto 2030.

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

Not Applicable as per MMDR 2015 Lease period for captive mine is extended upto 2030.

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.

Not Applicable as per MMDR 2015 Lease period for captive mine is extended upto 2030.

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

Not Applicable as per MMDR 2015 Lease period for captive mine is extended upto 2030.

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.

Not Applicable as per MMDR 2015 Lease period for captive mine is extended upto 2030.

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

Not Applicable as per MMDR 2015 Lease period for captive mine is extended upto 2030.

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.

Not Applicable as per MMDR 2015 Lease period for captive mine is extended upto 2030.

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 :

(KANHAIYA LAL)

Indian Bureau of Mines