

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

MCDR INSPECTION REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-59

Mine code : 38MPR18081

- (i) Name of the Inspecting : **P012**) **MITHELESH PUROHIT**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 08-OCT-15
- (v) Prev.inspection date : 22-DEC-07

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAMUWANI KALAN (31.43.HA)**
- (b) Category : A Fully Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
State : MADHYA PRADESH
District : KATNI
Village : JAMUWANI KALAN
Taluka : VIJAYRAGHAVGARH
Post office : JAMUWANI KALAN
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (e) Police Station :
- (f) First opening date : 02-SEP-77
2. Address for : M/S ACC Limited
correspondance P.O. KYMORE, VIA. JUKEHI
DIST KATNI (M.P.) 483501
3. (a) Lease Number : MPR0273
- (b) Lease area : 31.82
- (c) Period of lease : 20
- (d) Date of Expiry : 01-SEP-17
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : ACC Limited
 P.O. KYMORE VIA JUKEHI
 KATNI MADHYA PRADESH
 Phone:N. A.
 FAX :N. A.

Owner : ACC Limited
 P.O. KYMORE VIA JUKEHI
 KATNI MADHYA PRADESH
 Phone: N. A.
 FAX : N. A.

6. Date of approval of Mining :
 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 | 365 |
| Workers | 5 | 365 |
| Supervisory | 2 | 365 |

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.

Violation of rule 45(5) (a) and 47 were pointed out during previous inspection carried out on 16/11/2011. Violation of rule 45(5)(a) was pointed out for differences in reporting of production against 2006-07 to 2010-11 and with the one indicated in scheme of mining submitted for processing for approval for the proposal period 2011-12 to 2015-16. In fact the lease was transferred in the name of present less i.e in favour of M/s ACC Ltd. in year 2008. Clarification given by the lessee vide their letter dated 15/12/2011 as well as changes made in the the scheme of mining which was uder process of approval on that time , violation of both the rules were dropped by the inspecting officer. Lessee is regular in submission of Statutory Returns by on line as well as Hard Copies. At present the lessee has already submitted the modification of approved mining plan for approval with envisaged proposal for next five years i.e. for 2016-17 to 2020-21. violations related with exploration etc would have already been covered / to be covered after scrutiny of the document, hence violation of MCDR,88 rules at present has not been pointed out based on inspection under reference.

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.

Not recommended.

5. Scientific Mining

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

A. Exploration (Rule 13)

| | | | |
|--|--|---|--|
| b.Total area covered | : To ascertain mineralisation of the lease area ,additional 12 boreholes were proposed in scheme of mining approved with proposal period upto 2015-16 on 13/03/2012. | After approval of existing scheme of mining intimation of only 4 boreholes in Form J have been received . Thus, There are a gap between proposed and actual exploration work carried out in the proposal period of approved scheme of mining. | Exploration work amy be reviewed in modification of mining plan already submitted under 22(6) of MCR,60. |
| a.Type of prospecting and exploration i.e. pitting, drilling | : As per approved proposal 6 boreholes, each of 40m deep were proposed for the year 2013-14 | As per information submitted by lessee vide letter no. KY/BMG/IBM/2015/08 dated 17/10/2015, four boreholes each of 50m deep have been put in the area. | Details of borholes in Form J and Form K have been received from the party on 21/10/2015 |

B. Working (Rule 13)

| | | | |
|---|---|--|--|
| b.Bench size(LxWxH)length can be defined as regular/irregular | : As per approved document there was proposal of one bench in Overburden of size 360mX30mX1.5m (LXWXH) and Two benches in limestone each of 5.0m height with size of 320X30m and 230X30m respectively. | Atthe time of inspection one egular benche of 1.5m height was seen. Regularisation of both the mineral benches each of 5.0m height work is almost completed. | Both , OB and mineral benches are regular. |
| a.Number and size of each pit (LxWxH) | : As per proposal at the end of 2014-15, the size of pit supposed to be 230mX140m | A little changes on mineral benches has been noticed as out of passing of four years proposal period only last year production has been reported that too from regularisation of mineral benches and proper access to the pit bottom. Only 84195 tonnes limestone have produced against the target of 185625tonne. Overburden bench has sufficiently advanced resulting against 16500tonnes of envisaged quantity, lessee have removed 25366m3 ob during the year. | Taking into account the development work carried out by the lessee there is no difference in size of pit with the one proposed in the approved scheme of mining. |

| | | |
|--|---|---|
| c.Ore to waste ratio : 1:0.22 pit wise if possible otherwise for mine | 1:0.21 | The ore to OB ratio is almost as per envisaged made in approved scheme of mining |
| d.Total area covered : As per proposal under excavation/pits the size of pit at the end of 2014-15 was proposed to be 260mX130m | OB bench has sufficiently advanced resulting size of pit is almost got size as proposed in the approved scheme of mining. | Besides less achievement of production ,there is no much more difference in size of pit comparison to envisaged size of pit, as considerable developmental work has been carried out by the lessee. |

C. Waste disposal (Rule 13)

| | | |
|---|---|---|
| a.Location of dumps : As per approved proposal one waste dump of size 160m X70mX6m on Eastern boundary line (between 26662 N to 26640N and East of 4727160 grid line) and one soil dump of 80mX80mX6m on south of waste dump | The dump is spread over an area of 230mX210m having height ranging from 1m to 3.0m on area almost on envisaged location in the approved scheme of mining. | There is no considerable deviation in this regard so that violation has not been pointed out. |
| b.Method of dumping whether advancing/retreat : Advancing | Advancing | Method of dumping is as per approved proposal |

D. Production

| | | |
|--|---------------------------------|---|
| b.Year wise production of last five year. : year | Year | In first three year of approved proposal there was no production reporting. Now, mine is under operation. |
| proposed prod.in tonnes | Actual reported prod. in tonnes | |
| 2012-13 | 2012-13 | |
| 118968 | Nil | |
| 2013-14 | 2013-14 | |
| 148500 | Nil | |
| 2014-15 | 2014-15 | |
| 185625 | 84195.77 | |

D. Reserve

| | | |
|--|--|--|
| a.Reserve position as per latest MP/MS and at the time of inspection. : As on 01/04/2015 there was supposed to be 3905719.0tonne of reserve of limestone in the area . | As on 01/04/2015 there was 4278812.0tonne of reserve of limestone in the area .In comparison to proposed production of 453093 tonne production in last three years 84195.77 tonnes | There is no production upto 2013-14.Entire production is against 2014-15. During inspection , mining |
|--|--|--|

limestone have been produced that too in 2014-15 only.

operation was found going on. In current year also upto January, 2016 , 152533 t prod. is reported

RESERVE POSITION AS ON 01/04/2015

| LIMESTONE | | |
|------------------|--------------------|-------|
| Category | Quantity in Tonnes | Grade |
| Proved | 0 | |
| Probable | 4278812 | |
| Possible | 0 | |
| Total | 4278812 | |

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

| Mineral | Production | Unit |
|-----------|------------|------|
| LIMESTONE | 84195.77 | TON |

6. Conservation of Mineral - both quantitative and qualitative**Mineral Rule 15**

Percentage of recovery of ore : As per approved mining scheme 90% recovery of limestone pitwise w.r.t. ROM and total material from ROM ore was envisaged which appears to be they are practically getting .

Number of benches in ore and waste. : . Prominent top soil was not seen in the area under artea covered currently. There is only one bench in OB of 3-4m height which is as per proposal. There are two benches each of 3-5 height on limestone zone , boths are as per proposal in concerned to number of benches in OB and Mineral.

Sub/grd mineral/fines (Rule16)

Total area covered for stacking : Not Applicable

Number and size of each stack : NA

Qty of yearly generation and total qty available during inspection with grade : NA

Separate stacking from waste : There is no mineral stack in the lease area. what ever production achived the same is despatched to companies cement plant lying in Kymore.

Location of stacking. : There is no generation of rejects , hence separate stacking of rejects doesnot arrise.

Exploration data as on 31/03/ 2015

No. of Boreholes

No. of Pits

No. of Trenches

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015

Overbuden/waste removed (in m3) : 25366

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. : Flat and rolling
- b. Aesthetic environment : Barren land.
- c. Soil and land use pattern : 0.5m soil in part of the lease area.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : None,
- e. Forest(flora and fauna) : There is no forest land within 2.0kam in any direction from the lease boundary. There is forest land about 2-2.5km away from the Northern lease boundary line. within 2.0km . The area is free from prominent flora and funa.
- f. Vegetation : The area was found free from prominent vegetation.
- d. Agriculture : As per approved scheme of mining 20ha area of the lease area falls under Agricultural land.

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 |

| <u>PLANTATION DURING THE PREVIOUS YEAR</u> | <u>2014 - 2015</u> |
|--|--------------------|
| | Area in Hect. |

| <u>TOP SOIL MANAGEMENT</u> |
|----------------------------|
| 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.

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.

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

There is no outstanding violations of MCDRules pointed out in earlier.

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

It is senn that provisions on matter concerned are followed by the lessee in these days.

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.

Yes,

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.

Yes,

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

It appears that at presently there is no abnormal environmental and ecological situations developed by the means of mining and allied activities carried out in the lease area and also there will be no substantial harm to the environment and ecology. if the protective measures taken by the lessee so far is still implimented.

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 :

(MITHELESH PUROHIT)

Indian Bureau of Mines