

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Dehradun regional office**

**Mine file No :** HP/SOLAN/LST-3

**Mine code :** 38HPR11002

- (i) Name of the Inspecting : **G021** ) **DATA RAM GURJAR**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : **SHRI ANKUR AGARWAL, AGENT MINES**  
Official with  
Designation
- (iv) Date of Inspection : 25/09/2016
- (v) Prev.inspection date : 12/10/2015

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KASHLOG**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : HIMACHAL PRADESH  
District : SOLAN  
Village : KASHLOG  
Taluka : ARKI  
Post office : KASHLOG  
Pin Code : 171102  
FAX No. : (01796) - 248335/246486  
E-mail : geosul@ambujamail.com  
Phone : (01796)-248335/246286
- (f) Police Station :
- (g) First opening date : 04/08/1993
- (h) Weekly day of rest : SUN
2. Address for : M/S GUJARAT AMBUJA CEMENT LTD.  
correspondance : VILLAGE- SULI , P.O- DARLAGHAT  
DISTRICT- SOLAN , ( H.P), PIN - 171102
3. (a) Lease Number : HPR0038
- (b) Lease area : 518.88
- (c) Period of lease : 20
- (d) Date of Expiry : 27/05/2012
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : GUJARAT AMBUJA CEMENTS LTD  
 VILL - SULI, PO-DARLAGHAT  
 TEH-ARKI SOLAN HIMACHAL  
 PRADESH  
 Phone:01796-48210,48386,48351  
 FAX :01796-48335

Owner : A. L. KAPUR  
 GUJRAT AMBUJA CEMENTS LTD.  
 122, MARKET CHAMBERS - III  
 NARIMAN POINT, MUMBAI -  
 400021 SOLAN HIMACHAL  
 PRADESH  
 Phone: (022) 22853044  
 FAX : (022) 22852921

Agent : V. S. Mathur  
 P. O.- Darla Ghat Teh. -  
 Arki Distt. Solan SOLAN  
 HIMACHAL PRADESH  
 Phone: (01796) -8210,8351,8386  
 FAX : 01796-8335

## Mining Engineer

Name : HEMANT SHARMA, Full Time  
 Qualification : B. E. (MINING), FCC  
 Appointment/ : 16/08/2002 01/04/2005  
 Termination date

## Mining Engineer

Name : R.B.SINGH, Full Time  
 Qualification : B.E MINING  
 Appointment/ : 01/04/2007  
 Termination date

## Manager

Name : SANJAY SHARMA  
 Qualification : B. E. (MINING), FCC  
 Appointment/ : 16/08/2002 01/04/2007  
 Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 12/04/1993  
 Plan/Scheme of Mining Existing rule 11 MCDR1988 05/03/1998  
 Mining Scheme rule 12 MCDR1988 14/10/1999  
 Mining Scheme rule 12 MCDR1988 21/06/2004  
 Mining Scheme rule 12 MCDR1988 21/06/2004  
 Mining Scheme rule 12 MCDR1988 20/04/2009  
 Renewal under rule 22 MCR1960 20/03/2012  
 FMCP under 23C(1) 19/11/2013  
 Modif.of approved Mining Plan 20/02/2014

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

| Sl.No. | Item  | Proposals   | Actual work   | Remarks   |
|--------|---|---|---|---|
| 1a     | Backlog of previous year  | Nil   | Nil   |   |
| 1b     | Exploration over lease area for geological axis 1 or 2              | 7   | 7   |   |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year |   | Khanna & Associates, New Delhi Rs 51,63,867           |   |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | Nil   | Nil   |   |
| 1e     | Balance reserve as on 01/04/20                                      | Balance Reserve as on 01.04.2016 Limestone : 204.20mt | Balance Reserve as on 01.04.2016 Limestone : 204.20mt |   |
| 1f     | General remarks of inspecting officers on geology, exploration etc  |   |   | The entire area has been explored as per UNFC norm. |

## Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

|    |  |  |  |
|----|--|--|--|
| 2a | Location of development w.r.t.lease area                       | <p>Western Block Development Plan:S480-S890/W20-W240:face alignment will be E-W while the advancement will be in North and south directions.Benches from 1380mRL to 1240mRL would be developed.N150-N370/E380-E780:face alignment would be initially EW with advancement in NW direction.Benches from 1460 to 1440mRL would be developed. Eastern Block development Plan: S1060-S1420/E2090-E2660:Chopping of the hill for the development of benches 1640 to 1670mRL,bench width about 50m.</p> | Western Block:Carried out as per proposal.Eastern Block: Less Advancement. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Nil  | Nil  |
| 2c | Stripping ratio or ore to OB ratio                             | Nil  | Nil  |
| 2d | Quantity of topsoil generation in m3                           | Nil  | Nil  |

|    |   |     |     |  |
|----|---|-----|-----|--|
| 2e | Quantity of overburden generation in m3   | Nil | Nil |  |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc |     |     | The production obtained from Kashlog Block is higher than Mangu Block. It Shows proportionate Development have not been carried out in both the blocks. Violation of Rule 13(1) of MCDR 1988 has been issued to the lessee in this regard. |

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#### Exploitation:

| Sl.No. | Item  | Propasals                                    | Actual work                       | Remarks |
|--------|---|--|-----------------------------------|---------|
| 3a     | Number of pit proposed for production                             | 2 Nos.                                       | 2 No.(Western & Eastern Block)    |         |
| 3b     | Quantity of ROM mineral production proposed                       | 6840000 Tonnes Limestone in the year 2015-16 | 5140050 tonnes actual production. |         |
| 3c     | Recovery of sailable/usable mineral from ROM production           | 100%   | 100%                              |         |
| 3d     | Quantity of mineral reject generation                             | Nil  | Nil                               |         |
| 3e     | Grade of mineral rejects generation and threshold value declared. | Nil  | Nil                               |         |
| 3f     | Quantity of sub grade mineral generation.                         | Nil  | Nil                               |         |
| 3g     | Grade of sub grade mineral generation                             | Nil  | Nil                               |         |
| 3h     | Manual / Mechanised method adopted for segregating from ROM       | Nil  | Nil                               |         |

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|----|--|--|--|
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.      | Nil  | Nil  |
| 3j | Provision of drilling and blasting in mineral benches  | Conventional Method of Drilling & Blasting with DTH machine of 150mm hole size.            | Conventional Method of Drilling & Blasting with DTH machine of 150mm hole size.            |
| 3k | Provision of mining machineries in mineral benches   | Hydraulic excavators & dumpers will be used for loading and transporting blasted materail. | Hydraulic excavators & dumpers will be used for loading and transporting blasted materail. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes  | Yes  |
| 3m | Total area covered under excavation/pits   | 82.67 Hect.  | 70.76 Hect.  |
| 3n | Ore to OB ratio for the pit/mine during the year.  | Nil  | Nil  |
| 3o | Total area put in use under different heads at the end of year                                       | Excavation:82.67Hect,<br>Plantaion:9.28 Hect.,<br>Others: 16.54 Hect.                      | Excavation: 70.67Hect,<br>Plantaion:9.91 Hect.,<br>Others: 16.12 Hect.                     |

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|----|--|--|--|
| 3p | Production of ROM mineral during the last five year period as applicable | Limestone Production proposal for last five years:<br>2011-12 : 6.84mt<br>2012-13 : 6.84mt,<br>2013-14 : 6.84mt,<br>2014-15 : 6.84mt,<br>2015-16 : 6.84mt,<br>2016-17 : 6.84mt | Actual Limestone Production for last five years:<br>2011-12 : 4.92mt<br>2012-13 : 4.92mt,<br>2013-14 : 4.59mt,<br>2014-15 : 4.87mt,<br>2015-16 : 5.14mt,<br>2016-17 : 2.61mt (Up to sept 2016) |
| 3q | General remarks of inspecting officers on method of mining etc.          | Open cast Full mechanised Mining method proposed.  | Open cast Full mechanised Mining method adopted as per proposal.   |

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Solid Waste Management - Dumping:

| Sl.No. | Item   | Propasals | Actual work | Remarks |
|--------|--|-----------|-------------|---------|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Nil       | Nil         |         |
| 4b     | Location of topsoil, OB and mineral reject dumps                 | Nil       | Nil         |         |
| 4c     | Number of dumps within lease area and outside of lease area      | Nil       | Nil         |         |
| 4d     | Location of dumps w.r.t. ultimate pit limit (Rule 16)            | Nil       | Nil         |         |
| 4e     | Number of active and alive dumps.                                | Nil       | Nil         |         |
| 4f     | Number of dead dumps.  | Nil       | Nil         |         |
| 4g     | Number of dumps established.                                     | Nil       | Nil         |         |

|    |  |     |     |
|----|--|-----|-----|
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Nil | Nil |
| 4i | Length of Retaining wall or garland drain all along dumps          | Nil | Nil |
| 4j | Number of settling ponds   | Nil | Nil |
| 4k | Specific comments of inspecting officer on waste dump management   | Nil | Nil |

#### Solid Waste Management - Backfilling:

| Sl.No. | Item  | Propasals | Actual work | Remarks                                   |
|--------|---|-----------|-------------|---|
| 5a     | Status of part or full extraction of mineral from mined out area before starting backfilling. | Nil       | Nil         |   |
| 5b     | Area under backfilling of mined out area  | Nil       | Nil         |   |
| 5c     | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)     | Nil       | Nil         |   |
| 5d     | Total area fully reclaimed and rehabilitated  | Nil       | Nil         |   |
| 5e     | General remarks of inspecting officers on backfilling and reclamation etc.                    |           |             | There is no mature area for back filling. |

#### Progressive Mine Clousre Plan:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|



|    |  |           |           |
|----|--|-----------|-----------|
| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).                               | Nil       | Submitted |
| 6b | Area available for rehabilitation (ha) .   | Nil       | Nil       |
| 6c | afforestation done (ha).   | 1 Hect    | 1.53 Hect |
| 6d | No. of saplings planted during the year  | 2500 Nos. | No. 5332  |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | Nil       | Nil       |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | Nil       | Nil       |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area       | Nil       | Nil       |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir  | Nil       | Nil       |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.                   | Nil       | Nil       |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation                                   | Nil       | Nil       |

|    |   |                |                                  |   |
|----|---|----------------|----------------------------------|---|
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)              | Nil            | Nil                              |   |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                                | To be complied | Monitoring is being carried out. |   |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. |                |                                  | PMCP are implimenting as per proposals. |

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Mineral Conservation:

| Sl.No. | Item   | Propasals                                | Actual work                              | Remarks                                     |
|--------|--|--|--|---|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area                           | Total ROM is dispatched to cement plant. | Total ROM is dispatched to cement plant. |   |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical.                        | Nil                                      | Nil                                      |   |
| 7c     | Different grade of mineral sorted out at mines.  | Nil                                      | Nil                                      |   |
| 7d     | Any beneficiation process at mines   | Nil                                      | Nil                                      |   |
| 7e     | General remarks of inspecting officer on Mineral conservation and beneficiation issues |  |  | Complete ROM is being feed to cement plant. |

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Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|----|---|---|---|
| 8a | Separate removal and utilization of topsoil (Rule 32)   | The top soil cover wherever encountered will be removed separately and utilized for plantation. | The top soil cover wherever encountered will be removed separately and utilized for plantation. |
| 8b | Concurrent use or storage of topsoil  | The soil would be temporarily stacked in the lease area prior to its utilisation.               | Used simultaneously.  |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | Nil   | Nil   |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | Nil   | Nil   |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Nil   | Nil   |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | Within ML<br>Area: 1Hect;<br>No. 2500   | Within ML<br>Area: 1.53Hect;<br>No. 5332  |
| 8g | Survival rate   | 80%   | 96%   |
| 8h | Water sprinkling on roads to control airborne dust  | Yes   | Yes   |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area                          |   | No adverse effect is observed.  |

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## Compliance of Rule 45:

| Sl.No. | Item  | Propasals   | Actual work         | Remarks |
|--------|---|---|---------------------|---------|
| 9a     | Status of submission of Monthly and Annual returns  | MR Submitted up to Sept 2016 & AR submitted for the year 2015-16. |                     |         |
| 9b     | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Given   | Given               |         |
| 9c     | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Given   | Given               |         |
| 9d     | Scrutiny of Annual return on afforestation  | Given   | Given               |         |
| 9e     | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | Given   | Given               |         |
| 9f     | Scrutiny of Annual return on ROM stock and/or graded ore                                      | Given   | Given               |         |
| 9g     | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | Given   | 167.57 Rs/MT of ROM |         |
| 9h     | Scrutiny of Annual return on fixed assets   | Given   | Given               |         |
| 9k     | Scrutiny of Annual return on mining machineries   | Given   | Given               |         |

**Details of violations observed during current inspection and compliance position of violation pointed out**

| Violation observed |            |               | Show couse position |           |               |
|--------------------|------------|---------------|---------------------|-----------|---------------|
| Rule NO.           | Issued on  | Compliance on | Rule NO.            | Issued on | Compliance on |
| Rule 13(1)         | 07/10/2016 | 01/11/2016    |                     |           |               |

**Date :**

**(DATA RAM GURJAR)**

Indian Bureau of Mines