

**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 : 002 ) DAMODAR PRASAD SHARMA  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sh.Satish Audichya, Mine Manager  
Official with  
Designation
- (iv) Date of Inspection : 01-JUN-23
- (v) Prev.inspection date : 21-DEC-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : KASHLOG
- (b) **Registration NO.** : IBM/447/2011
- (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 : ankur.agarwal@ambujacement
- Phone : (01796)-248335/246286
- (f) Police Station :
- (g) First opening date : 04-AUG-93
- (h) Weekly day of rest : SUN
2. Address for : M/S AMBUJA CEMENT LTD.  
correspondance VILLAGE- SULI , P.O- DARLAGHAT  
DISTRICT- SOLAN , ( H.P), PIN - 171102
3. (a) Lease Number : HPR0038
- (b) Lease area : 469
- (c) Period of lease : 50
- (d) Date of Expiry : 27-MAY-42
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

## Mining Engineer

Name : HEMANT SHARMA, Full Time  
 Qualification : B. E. (MINING), FCC  
 Appointment/ : 16-AUG-02 01-APR-05  
 Termination date

## Mining Engineer

Name : R.B.SINGH, Full Time  
 Qualification : B.E MINING  
 Appointment/ : 01-APR-07  
 Termination date

## Manager

Name : MANOJ VERMA  
 Qualification :  
 Appointment/ : 27-JUL-13  
 Termination date

## Manager

Name : SANJAY SHARMA  
 Qualification : B. E. (MINING), FCC  
 Appointment/ : 16-AUG-02 01-APR-07  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	12-APR-93
Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	05-MAR-98
	:	Mining Scheme rule 12 MCDR1988	14-OCT-99
	:	Mining Scheme rule 12 MCDR1988	21-JUN-04
	:	Mining Scheme rule 12 MCDR1988	21-JUN-04
	:	Mining Scheme rule 12 MCDR1988	20-APR-09
	:	Renewal under rule 22 MCR1960	20-MAR-12
	:	FMCP under 23C(1)	19-NOV-13
	:	Modif.of approved Mining Plan	20-FEB-14

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	5 bore hole proposed in year 2021-22.	Bore holes was carried out during year 2022-23.	
1b	Exploration over lease area for geological axis 1 or 2	As per approved plan G-1 252 ha , G-3 18 ha and Non Mineralized area 199 ha.	As per approved plan G-1 252 ha , G-3 18 ha and Non Mineralized area 199 ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Khanna & Associates; Rs. 28,77,000/-	Khanna & Associates; Rs. 28,77,000/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	18 ha	18 ha bring under G-1 axis from G-3 axis.	
1e	Balance reserve as on 01/04/20	Balance Reserve as on 01.04.2023 Limestone: 294.75 mio.t. Shale: 35.54 mio.t.	Balance Reserve as on 01.04.2023 Limestone: 294.75 mio.t. Shale: 35.54 mio.t.	
1f	General remarks of inspecting officers on geology, exploration etc	The entire ponteial area has been covered under G1 category.	The entire ponteial area has been covered under G1 category.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development was propoded in Two Blocks The Kashlog block proposed to be developed at N3458180 - N3459590 E686969- E687878 ii) Mangu block was proposed to be developed at N3457794- N3458295 E689290- E690142 N3457920 - N3457975 E689120 - E689162	Development work was carried out within proposed area.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposals incorporated.	In kashlog block of the mining lease the deposit is reaching at the limit end, so the shale intrusions are quite often in the bench. Separate bench/ regular topsoil is not existing. However topsoil present in the is appropriately collected & stacked separately & utilised for plantation purpose.
2c	Stripping ratio or ore to OB ratio	Nil	Nil
2d	Quantity of topsoil generation in m3	Nil	300 tonnes generated which used for plantation.
2e	Quantity of overburden generation in m3	No overburden generated during year 2022-23.	No overburden generated during year 2022-23.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development work was carried out within proposed area.	Development work was carried out within proposed area.
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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	Limestone: 6840535 MT Shale: 998100 MT	Limestone: 4643800 MT Shale: 515900 MT	
3d	Quantity of mineral reject generation	Excess shale produced has been reported in the returns as mineral reject amounting 221548 Tonnes	Excess Shale has been booked as mineral reject.	
3e	Grade of mineral rejects generation and threshold value declared.	Sio2 % 55	Sio2 % 55	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposals incorporated.	No proposals incorporated.	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study proposed in mine.	No beneficiation study was carried out in mine.
3j	Provision of drilling and blasting in mineral benches	Conventional method of drilling & blasting with down the hole drill machine of 115 & 150 mm dia. size.	Conventional method of drilling & blasting with down the hole drill machine of 115 & 150 mm dia. size used in mine.
3k	Provision of mining machineries in mineral benches	Hydraulic excavators and dumpers will be used for loading and transporting blasted material.	Hydraulic excavators and dumpers will be used for loading and transporting blasted material.
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	Excavation: 112.66 ha.	Excavation: 112.66 ha.
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: 112.66 ha. Top soil storage: 0.0 ha. OB/waste/dump: 3.25 ha. Infrastructure : 6.76 ha. Roads: 7.92 ha. Total: 130.59 ha.	Excavation: 112.66 ha. Top soil storage: 0.0 ha. OB/waste/dump: 3.25 ha. Infrastructure: 6.76 ha. Roads: 7.92 ha. Total: 130.59 ha.	
3p	Production of ROM mineral during the last five year period as applicable	Limestone: 6840000 MT Shale: 760000 MT	2018-19: Limestone: 4868850 MT Shale: 527200 MT  2019-20: Limestone: 5148700 MT Shale: 567200 MT  2020-21: Limestone: 5882800 MT Shale: 651800 MT  2021-22: Limestone: 5931000 MT Shale: 658100 MT  2022-23: Limestone: 4643800 MT Shale: 515900 MT	No excess production observed during the year 2022-23.

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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)	Proposals incorporate	Excess Shale which is not useable is stocked as mineral reject.	
4b	Location of topsoil, OB and mineral reject dumps	Eastern block (Mangu): N 3458116-N 3458276 E 689665- E 689878	Mineral reject stacked as per proposals.	

4c	Number of dumps within lease area and outside of lease area	3	3
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Western block (Kashlog): S750- S1100/W50-E200 & N200- N300/W100-E100 Eastern block (Mangu): S950- S1200/E1800-	Western block (Kashlog): S750- S1100/W50-E200 & N200- N300/W100-E100 Eastern block (Mangu): S950- S1200/E1800-
4e	Number of active and alive dumps.	3	3
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.	Proposals incorporate	Proposals incorporate
4i	Length of Retaining wall or garland drain all along dumps	206 meter	200 meter
4j	Number of settling ponds	None	None
4k	Specific comments of inspecting officer on waste dump management	Excess Shale which is not useable is stocked as mineral reject as per proposals.	Excess Shale which is not useable is stocked as mineral reject as per proposals.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposals incorporated	No proposals incorporated
5b	Area under backfilling of mined out area	Not Applicable	Not Applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Topsoil used for Plantation	Topsoil used for Plantation
5d	Total area fully reclaimed and rehabilitated	Not Applicable	Not Applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Area yet to Mature for Backfilling.	Area yet to Mature for Backfilling.

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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).	Submitted	Submitted	
6b	Area available for rehabilitation (ha) .	1 ha	1 ha	
6c	afforestation done (ha) .	1ha	1 ha	
6d	No. of saplings planted during the year	2500	2500	
6e	Cumulative no .of plants	6130	6130	

6f	Any other method of rehabilitation	Not Applicable	Not Applicable
6g	Cost incurred on watch and care during the year	4 Lakh	4 Lakh
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	Not Applicable	Not Applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Applicable	Not Applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not Applicable	Not Applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Applicable	Not Applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Applicable	Not Applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	2500	1.5 ha

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1 ha	1 ha
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Applicable	Not Applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitored	Monitored
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	PMCP Report submitted, PMCP proposals implemented in mine.	PMCP Report submitted, PMCP proposals implemented in mine.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Proposals incorporated	No Proposals incorporated	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposals incorporated	Limestone & Shale is dispatched to cement plant. Excess shale generated is stacked /dumped.	
7c	Different grade of mineral sorted out at mines.	Not Applicable	Not Applicable	
7d	Any beneficiation process at mines .	No Beneficiations carried out in mine.	No Beneficiations carried out in mine.	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	ROM used for Cement Manufacturing purpose.	ROM used for Cement Manufacturing purpose.
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### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The top soil cover wherever encountered will be removed separately and utilized for plantation.	Done as per the proposal.	
8b	Concurrent use or storage of topsoil	For Plantation Purpose.	For Plantation Purpose.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposals incorporated.	Doone as per proposals.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Applicable	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Applicable	Not Applicable	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Within ML: Area: 1.0 ha. No.: 2500	Within ML: Area: 2.7 ha. No.: 6130 saplings
8g	Survival rate	80%	70%
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul road for dust sprpression carried out in mine.	Water sprinkling on haul road for dust sprpression carried out in mine.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic Beauty maitained except land degradation.	Aesthetic Beauty maitained except land degradation.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist appointed in mine.	Mining Engineer and Geologist appointed in mine.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information Given	Information Given	
9d	Scrutiny of Annual return on afforestation	Information Given	Information Given	

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information Given	Information Given
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Information Given	Information Given
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine price and Production cost found within range.	Ex Mine price and Production cost found within range.
9h	Scrutiny of Annual return on fixed assets	Information Given	Information Given
9k	Scrutiny of Annual return on mining machineries	Information Given	Information Given

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

**Date :**

**(DAMODAR PRASAD SHARMA)**

Indian Bureau of Mines