INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Dehradun regional office

Mine file No : HP/SOLAN/LST-3 **Mine code : 38HPR11002**

(i) Name of the Inspecting Officer and ID No. : **003) Manish Maindiratta**

(ii) Designation : Regional Controller Mines

(iii) Accompaning mine Official with Designation :

(iv) Date of Inspection : 21-DEC-22

(v) Prev.inspection date : 05-FEB-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 correspondance : M/S AMBUJA CEMENT LTD.
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/ Termination date : 16-AUG-02 01-APR-05

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

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

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

6. Date of approval of Mining Plan/Scheme of Mining :

Fresh under rule 22 MCR1960	12-APR-93
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	5	
1b	Exploration over lease area for geological axis 1 or 2	G1-252 Ha. G2-0 Ha. G3-18 Ha. Non-mineralized - 199 Ha.	As per proposal	Shale Area is 199 hectare
1c	Exploration Agencies and Expenditure in lakh rupees during the year	As per proposal	As per proposal	
1d	Balance area to be explored to bring Geological axis in 1 or 2	18 Ha	18 Ha	
1e	Balance reserve as on 01/04/20	-	Reserves reassessed as on 01-09-2021 Limestone(111): 302.50 million tonnes Shale(111): 36.40 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Area under minor mineral has not been explored as per UNFC

Development :

Sl.No.	Item	Propasals	Actual work	Remarks

2a	Location of development w.r.t.lease area	i) The Kashlog block was proposed to be developed 00-S500/W100-E300 00-N250/W100-E250 S100-N400/E300-E850 ii) Mangu block was proposed to be developed between S1200-S1450/E2600-E2800 S1300-S1600/E2700-E3100	Broadly as per proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	-	In kashlog block of the mining lease the deposit is reaching ht 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	8000	12104	
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			-

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks

3a	Number of pit proposed for production	2 nos.	2 nos. (Western & Eastern block)	
3b	Quantity of ROM mineral production proposed	Limestone: 6840000 MT Shale: 760000 MT	Limestone: 5931000 MT Shale: 658100 MT	Excess shale produced has been reported in the returns as mineral reject amounting 226700 T
3c	Recovery of sailable/usable mineral from ROM production	100%	Entire limestone is used for captive purposes. However the Shale produced in excess of plant requirement is dumped separately and reported as mineral reject.	
3d	Quantity of mineral reject generation		Excess shale produced has been reported in the returns as mineral reject amounting 226700 T	Excess Shale has been booked as mineral reject.
3e	Grade of mineral rejects generation and threshold value declared.	-	-	
3f	Quantity of sub grade mineral generation.	-	Excess shale produced has been reported in the returns as mineral reject amounting 226700 T	Excess Shale has been booked as mineral reject.
3g	Grade of sub grade mineral generation			
3h	Manual / Mechanised method adopted for segregating from ROM	Not applicable	Not applicable	
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 down the hole drill machine of 150 mm dia. size.	Conventional method of drilling & blasting with down the hole drill machine of 150 mm dia. size.	

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 are 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	112.66 hectare by 2022-23	109.25 ha. Reported in annual return
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. OB/waste/dump: 3.25 ha.. Infrastructure and Roads: 14.680 ha.	Excavation: 109.25 ha. OB/waste/dump: 1.750ha. Infrastructure and Roads: 14.440 ha. Green belt/Plantation: 16.45 ha.

3p	Production of ROM mineral during the last five year period as applicable	2016-17: Limestone: 6840000 MT Shale: 760000 MT 2017-18: Limestone: 6840000 MT Shale: 760000 MT 2018-19: Limestone: 6840000 MT Shale: 760000 MT 2019-20: Limestone: 6840000 MT Shale: 760000 MT 2020-21: Limestone: 6840000 MT Shale: 760000 MT 2021-22 Limestone: 6840000 MT Shale: 760000 MT	2016-17: Limestone: 4333100 MT Shale: 467400 MT 2017-18: Limestone: 5312500 MT Shale: 573600 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	
3q	General remarks of inspecting officers on method of mining etc.			-

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)		Excess Shale which is not useable is stocked as mineral reject.	

4b	Location of topsoil, OB and mineral reject dumps	Western block (Kashlog): S750-S1100/W50-E200 & N200-N300/W100-E100 Eastern block (Mangu): S950-S1200/E1800-E2150	Done as per proposal	
4c	Number of dumps within lease area and outside of lease area	3 main dumps	Done as per proposal	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	-	-	
4e	Number of active and alive dumps.	3	3	
4f	Number of dead dumps.	-	-	
4g	Number of dumps established.	-	-	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	No proposal	
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			-

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.	No proposal	Not done	
5b	Area under backfilling of mined out area	No proposal	Not done	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	The top soil cover wherever encountered will be removed separately and utilized for plantation.	Meagre quantity generated is used simultaneously for plantation, as reported during inspection.	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			-

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).	Yes	Submitted in Time	
6b	Area available for rehabilitation (ha) .	No proposal for rehab of working bench .	Working benches are not mature for the purpose	
6c	afforestation done (ha).	No proposal for rehab of working bench .	As proposed	
6d	No. of saplings planted during the year	No proposal for rehab of working bench .	As proposed	
6e	Cumulative no .of plants	Not applicable	Not applicable	

6f	Any other method of rehabilitation	Not applicable	-
6g	Cost incurred on watch and care during the year	Not applicable	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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	1.4389 About 1.7 ha
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	Not applicable

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	-	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Monitoring is being carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			-

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Limestone & Shale is dispatched to cement plant.	Limestone & Shale is dispatched to cement plant. Excess shale generated is stacked / dumped.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not applicable	Not applicable	
7c	Different grade of mineral sorted out at mines.	Not applicable	Not applicable	
7d	Any beneficiation process at mines .	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			-

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	The soil would be temporarily stacked in the lease area prior to its utilization for plantation.	Done as per the proposal.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Western block (Kashlog): S750-S1100/W50-E200 & N200-N300/W100-E100 Eastern block (Mangu): S950-S1200/E1800-E2150	Done as per proposal.
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: Area: 1.0 ha. No.: 2500	Within ML: Area: 1.7 ha. No.: 4389 saplings
8g	Survival rate	80%	90%

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			-

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Dec 2022 A.R. submitted upto 2021-22	M.R. Submitted upto Dec 2022 A.R. submitted upto 2021-22	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Sh. Rajiv Ranjan Prasad, Mines Manager Sh. Mukesh Kumar, Mining Engineer Sh. M.P. Singh,Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Nil back filling	
9d	Scrutiny of Annual return on afforestation	Given	4389 nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	226700 T Shale produced as reject	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Nil stock	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Cost of Production (EMP): Limestone: Rs. 219.35/MT Shale: Rs. 178.03/MT	
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

Date :

(**Manish Maindiratta**)

Indian Bureau of Mines