

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

MCDR INSPECTION REPORT

Dehradun regional office

Mine file No : HP/BLS/LST-9

Mine code : 38HPR01003

- (i) Name of the Inspecting : **002**) **DAMODAR PRASAD SHARMA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Mr. Pankaj Nayan, Mine Manage
Official with
Designation
- (iv) Date of Inspection : 31-MAY-23
- (v) Prev.inspection date : 21-DEC-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GAGAL**
- (b) **Registration NO.** : **IBM/256/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : HIMACHAL PRADESH
District : BILASPUR
Village : BARMANA
Taluka : SADAR
Post office : BARMANA
Pin Code :
FAX No. : (01978) - 244067
E-mail : www.acclimited.com
Phone : (01978) -44041/44037/44033.
- (f) Police Station : BARMANA
- (g) First opening date : 06-JAN-83
- (h) Weekly day of rest : SUN
2. Address for : M/S A.C.C LTD.
correspondance : GAGAL CEMENT PROJECT
P.O. BARMANA , DISTT- BILASPUR (H.P)
3. (a) Lease Number : HPR0001
- (b) Lease area : 231.25
- (c) Period of lease : 50
- (d) Date of Expiry : 31-MAR-30
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : ASSOCIATED CEMENT COMPANY LTD.
 Co. GAGAL CEMENT PROJECT
 BILASPUR HIMACHAL PRADESH
 Phone:
 FAX :

Owner : HARISH BADAMI
 M/S ACC LTD, CEMENT HOUSE,
 121, M.K.Road Mumbai
 MUMBAI (SUBURBAN)
 MAHARASHTRA
 Phone: 01978-244069,24
 FAX :

Agent : RAJAT KUMAR PRUSTY
 GAGAL CEMENT WORKS, PO-
 BARMANA, BILASPUR HIMACHAL
 PRADESH
 Phone:
 FAX :

Mining Engineer

Name : S.K.SINGH, Full Time
 Qualification : B.E. MINING, FCC
 Appointment/ : 10-FEB-08 08-OCT-08
 Termination date

Mining Engineer

Name : HARSH VATSYAYAN, Full Time
 Qualification : B.E. MINING
 Appointment/ : 08-OCT-08
 Termination date

Mining Engineer

Name : Rizwan Jamil, Full Time
 Qualification : B.E (Mining)
 Appointment/ : 23-OCT-13
 Termination date

Manager

Name : S.K.SINGH
 Qualification : B.E. MINING, FCC
 Appointment/ : 10-FEB-08 02-JUN-13
 Termination date

Manager

Name : PANKAJ NAYAN
 Qualification : BE (Mining)
 Appointment/ : 03-JUN-13
 Termination date

6. Date of approval of Mining : Existing rule 11 MCDR1988 21-MAY-91
 Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 23-AUG-97
 Renewal under rule 22 MCR1960 13-AUG-99
 Renewal under rule 22 MCR1960 13-AUG-99

Mining Scheme rule 12 MCDR1988	13-APR-04
Mining Scheme rule 12 MCDR1988	03-OCT-08
Mining Scheme rule 12 MCDR1988	03-OCT-08
Mining Scheme rule 12 MCDR1988	11-SEP-13

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	No Exploration was proposed during year 2022-23.	No Exploration was carried out during year 2022-23.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Potential Mineralized area already explored upto G1 level	Potential Mineralized area already explored upto G1 level	
1e	Balance reserve as on 01/04/20	Balance reserve as on 01.04.2023 for Limestone under 111 142.20 Million Tonness, 122 16.90 Million Tonnes for Shale under 111 0.94 Million Tonness,	Balance reserve as on 01.04.2023 for Limestone under 111 142.20 Million Tonness, 122 16.90 Million Tonnes for Shale under 111 0.94 Million Tonness,	
1f	General remarks of inspecting officers on geology, exploration etc	All Potential Mineralized area already explored upto G1 level.	All Potential Mineralized area already explored upto G1 level.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	It was proposed to work in the pit 1 towards the south-east direction forming benches of 10-meters from 790 mRl to 680 mRl and 835mRl to 775 mRl for Limestone. From 784mRl to 744 mRl for Shale Benches.	Development work was carried out within proposed area.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposals incorporated.	No proposals incorporated.
2c	Stripping ratio or ore to OB ratio	1:00	1:00
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	Development work was carried out within poposed area.	Development work was carried out within poposed area.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit Mining were proposed in Pit-1 named Gagal	Working was done in pit 1 as per proposal named Gagal pit	

3b	Quantity of ROM mineral production proposed	4.49 Million Tonnes	2.76 Million Tonnes
3c	Recovery of sailable/usable mineral from ROM production	90%	90%
3d	Quantity of mineral reject generation	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable
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	Not Applicable	Not Applicable
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Beneficiation study proposed.	No Beneficiation study was carried out.
3j	Provision of drilling and blasting in mineral benches	DTH Drilling and Blasting proposed in mineral benches .	Drilling and Blasting operations are carried out as per proposal.
3k	Provision of mining machineries in mineral benches	HEMM proposed for Loading and Transporation of Limestone up to Cursher.	Hydraulic Excavators' and Dupmper deployed in mine for loading and transporation of limestone .

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	59.32 ha	58.31 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:00	1:00
3o	Total area put in use under different heads at the end of year	81.27 ha	81.27 ha
3p	Production of ROM mineral during the last five year period as applicable	2022-23 4499750 2021- 22=4983000 2020- 21=5002400 2019- 20=4906450 2018- 19=4981675	2022-23 2763650 2021-22=3882200 2020-21=3084550 2019-20=3734350 2018-19=3728492 2017-18=3670813
3q	General remarks of inspecting officers on method of mining etc.	Method of Mining carried out as per proposals.	Method of Mining carried out as per proposals.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposals incorporated	Proposals incorporated	

4b	Location of topsoil, OB and mineral reject dumps	Sub Grade Minerals Stacking proposed towards South-East direction of Pit between section line ML 0.5 to ML 3.5.	Stacking was carried out less or more as per proposals.
4c	Number of dumps within lease area and outside of lease area	1	1
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL
4e	Number of active and alive dumps.	1	1
4f	Number of dead dumps.	None	None
4g	Number of dumps established.	Not proposed	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposals incorporated.	Garland drain and retaining wall prepared.
4i	Length of Retaining wall or garland drain all along dumps	500 meters	520 meters
4j	Number of settling ponds	None	None
4k	Specific comments of inspecting officer on waste dump management	Sub garde Mineral stacking was carried out as per proposals.	Sub garde Mineral stacking was carried out as per proposals.

Solid Waste Management - Backfilling:

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.	Not Proposed	Full extraction of mineral is not done yet, mineral continuity still exists
5b	Area under backfilling of mined out area	Not Proposed	No area fully mature for backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generated during the reporting year	Nil
5d	Total area fully reclaimed and rehabilitated	Not Proposed	No area fully mature enough for reclamation program
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Mineral is still continued in the pits, pits are not fully extracted yet, reclamation and rehabilitation program not started yet.	Mineral is still continued in the pits, pits are not fully extracted yet, reclamation and rehabilitation program not started yet.

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) .	No proposals incorporated	No proposals incorporated	

6c	afforestation done (ha).	1.17	1.5 ha
6d	No. of saplings planted during the year	3000	3000
6e	Cumulative no .of plants	22000	22000
6f	Any other method of rehabilitation	Not Applicable	Not Applicable
6g	Cost incurred on watch and care during the year	Not Proposed	Nil
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 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	Not Proposed	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	Not Proposed
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Not Proposed
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 and PMCP proposals implemented.	PMCP Report submitted and PMCP proposals implemented.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch is proposed.	ROM is being dispatched to cement plant.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Proposed	Not Applicable	
7c	Different grade of mineral sorted out at mines.	Not Proposed	Not Proposed	

7d	Any beneficiation process at mines .	No beneficiation proposed in mine.	No beneficiation is being carried out proposed in mine.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	ALL ROM Used for cement manufacturing purpose.	ALL ROM Used for cement manufacturing purpose.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals incorporated.	During the reporting year no soil generated as the working was done depth wise	
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Sub garde Minerals stacking proposed.	Sub garde mineral satcking is carried out in mine.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	No area mature enough for the process	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	Proposed	
8g	Survival rate	90%	70%	Due to extreme weather conditions

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic environment is good except degradation of land.	Aesthetic environment is good except degradation of land.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Returns Submitted.	Monthly and Annual Returns Submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist Appointed.	Mining Engineer and Geologist Appointed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Inforamtion given	Inforamtion given	
9d	Scrutiny of Annual return on afforestation	Information given	Information given	
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 limit.	Ex mine Price and Production Cost found within limit.	
9h	Scrutiny of Annual return on fixed assets	Furnished	Furnished	

9k	Scrutiny of Annual return on mining machineries	Furnished	Furnished
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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