

**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 : **G013**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Pankaj Nayan ME, LSK Prasad Geologist, Dhiraj ME
Official with
Designation
- (iv) Date of Inspection : 30-SEP-22
- (v) Prev.inspection date : 04-FEB-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 : 51
(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	9 nos of boreholes were proposed to drill in the reporting year	9 nos of boreholes were drilled in the reporting year	
1b	Exploration over lease area for geological axis 1 or 2	Potential mineralized area is explored up to G1 level	Potential mineralized area is explored upto G1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Proposed	GeoMining Division, ACC Limited	
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	111-130.18 121&122-61.32 211-9.05 221&222-0 333-333.23	111-112.08 121&122-61.32 211-9.05 221&222-0 333-333.23	Units are in million tones Production depleted from year 2017-18 to 2021-22 as per reported in annual return
1f	General remarks of inspecting officers on geology, exploration etc			Limestone of the ML area belongs to krol formation, limestone of ML area has various colour n appearance with grain size, in nature the limestone of the is hard and compact, limestone found with shale in the ML area.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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 in heigh and width	Working was is the proposed location with irregular benches in some places	Violation of rule 11(1) was issued for irregular benches
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to prepare and maintain benches in OB and Mineral	Bench are maintained in OB and Mineral Limestone	
2c	Stripping ratio or ore to OB ratio	1:0.00	1:0.00	
2d	Quantity of topsoil generation in m3	Nil	Nil	No Soil generated in the reporting year
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			NIL

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	4983000	3882200	

3c	Recovery of sailable/usable mineral from ROM production	90%	90%
3d	Quantity of mineral reject generation	Not Proposed	NIL
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	NIL
3f	Quantity of sub grade mineral generation.	Not Proposed	NIL
3g	Grade of sub grade mineral generation	Not Proposed	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method	Mechanized method adopted
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil
3j	Provision of drilling and blasting in mineral benches	Proposed	As per approved mining plan
3k	Provision of mining machineries in mineral benches	HEMM is proposed to be used in the mineral benches	HEMM is being used in the mineral benches
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	As per approved mining plan
3m	Total area covered under excavation/pits	18.57	19.65

3n	Ore to OB ratio for the pit/mine during the year.	1:0.00	1:0.00
3o	Total area put in use under different heads at the end of year	2021-22=4983000 2020-21=5002400 2019-20=4906450 2018-19=4981675	2021-22=3882200 2020-21=3084550 2019-20=3734350 2018-19=3728492 2017-18=3670813

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	Separate benches are prepared in OB and mineral	
4b	Location of topsoil, OB and mineral reject dumps	Proposed	Within lease area	
4c	Number of dumps within lease area and outside of lease area	Within lease area	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.	Not Available	Nil	
4g	Number of dumps established.	Not Proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Garland drain and retaining wall prepared	

4i	Length of Retaining wall or garland drain all along dumps	500 meters	650 meters
4j	Number of settling ponds	Not Proposed	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.	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.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed	Submitted
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil
6c	afforestation done (ha).	1.2	1.24
6d	No. of saplings planted during the year	3000	3100
6e	Cumulative no .of plants	18500	19000
6f	Any other method of rehabilitation	Not Proposed	Nil
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 Proposed	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Proposed	3100 numbers of plats were plated in the reporting year

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Proposed	Nil	
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	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not Proposed	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	As per approved mining plan	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Only plantation work was being done in the lease area in the reporting year.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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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.	Mechanical method	Screeners were used
7c	Different grade of mineral sorted out at mines.	Not Proposed	Nil
7d	Any beneficiation process at mines	Not Proposed	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		ROM is being dispatched to captive cement plant

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	NIL	During the reporting year no soil generated as the working was done depth wise
8b	Concurrent use or storage of topsoil	Proposed	Nil	During the reporting year no soil generated
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Nil	No OB or waste generated during the reporting year

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	As and when generated	
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	As per approved mining plan	
8g	Survival rate	90%	50%	Due to extreme weather conditions
8h	Water sprinkling on roads to control airborne dust	Proposed	By using water tanker and sprinklers	

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR and MR submitted		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer Dheeraj, Geologist-LSK Prasad, Manager-Pankaj Nayan		

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished
9d	Scrutiny of Annual return on afforestation	Furnished
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Furnished
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Furnished
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Furnished
9h	Scrutiny of Annual return on fixed assets	Furnished
9k	Scrutiny of Annual return on mining machineries	Furnished

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
MCDR17	Rule 11(1)	02-FEB-23			
MCDR17	Rule 45(7) (a)	02-FEB-23			
MCDR17	Rule 54(c)	02-FEB-23			

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines