

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

MCDR INSPECTION REPORT

Dehradun regional office

Mine file No : HP/SOLAN/LST-2

Mine code : 38HPR11004

- (i) Name of the Inspecting : 003) Manish Maindiratta
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 20-DEC-22
- (v) Prev.inspection date : 05-FEB-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : BAGA-BHALAG
- (b) **Registration NO.** : IBM/720/2011
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : HIMACHAL PRADESH
- District : SOLAN
- Village : BAGABHALAG DARLAMORE
- Taluka : SOLAN
- Post office : KANDHAR
- Pin Code : 171102
- FAX No. : (1978)249178
- E-mail : amitk.dubey@adityabirla.co
- Phone : (1978)249174,249174,249175
- (f) **Police Station** : DARALAGHAT
- (g) **First opening date** : 23-JAN-10
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/s ULTRATECH CEMENT LTD
VILLAGE - BAGA, PO - KANDHAR
TEHSHIL - ARKI, DISTT- SOLAN (HP)
3. (a) **Lease Number** : HPR0085
- (b) **Lease area** : 324.48
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 28-SEP-57
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : JAI PEE HIMACHAL CEMENT PLANT
 UNIT BAGHA TEHSHIL - ARKI
 SOLAN HIMACHAL PRADESH
 Phone:
 FAX :

Owner : Omprakash Puranmalka
 VILL- BAGA, POST- KANDHAR
 DIST- SOLAN, HIMACHAL
 PRADESH SOLAN HIMACHAL
 PRADESH
 Phone:
 FAX :

Agent : AMIT KUMAR
 VILLAGE- BAGA, POST-
 KANDHAR DIST- SOLAN,
 HIMACHAL PRADESH SOLAN
 HIMACHAL PRADESH
 Phone:
 FAX :

Mining Engineer

Name : Kaushik Das, Full Time
 Qualification : B.E. (Mining)
 Appointment/ : 12-OCT-07 19-JUN-14
 Termination date

Mining Engineer

Name : SURAJ KUMAR GUPTA, Full Time
 Qualification :
 Appointment/ : 11-JAN-16
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 01-JUN-05
 Modif.of approved Mining Plan 19-DEC-12

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	10	Exploration undertaken to replace the exhausted boreholes and prove the depth persistence.
1b	Exploration over lease area for geological axis 1 or 2	-	-	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	M/s Synergy GeoTechPvt Ltd. Nagpur.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	-	
1e	Balance reserve as on 01/04/20	-	Limestone - 220 million tonnes Shale 22.986 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			In the light of new threshold value of limestone, the area under G2 and G3 which is having high magnesia need to be reexamined

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	-	More or less in the same sites as proposed	Baga block is developed for Shale Mine Bhalag Block for Limestone Mine
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	-	Top soil wherever produced was used for plantation in the past and no top soil is generated in the year 2021-2022	

2c	Stripping ratio or ore to OB ratio	1:000	1:000	
2d	Quantity of topsoil generation in m3	No proposal	Not generated in 2020-21	
2e	Quantity of overburden generation in m3	No proposal	Not generated in 2021-22	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Lessee has been advised to plan for the development of top benches between 3468200 to 3468700 and 680500 to 681600

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two Pit	Two Pit	Baga Block is worked for Shale and Bhalag Block is worked for Limestone.
3b	Quantity of ROM mineral production proposed	2021-22 Limestone: 4725000 T Shale-525000T	2021-2022 Limestone: 2692445 T Shale-296352 TT	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	No proposal	No generation	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	No proposal	No proposal	
3g	Grade of sub grade mineral generation	NA	NA	

3h	Manual / Mechanised method adopted for segregating from ROM	NA		Segregation is not required at present
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA		NA
3j	Provision of drilling and blasting in mineral benches	Deep hole Drilling		Deep hole Drilling 115mm dia
3k	Provision of mining machineries in mineral benches	Drilling Blasting with mechanised loading and transportation upto the crusher is proposed		Sandvik drill machines , Suitable excavators of 5 to 6 m3 bucket capacity with 35 T and 50T dumpers have been provided
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Opencast Mining 10Mtr Bench		In Bhalag Block Limestone is worked with a bench height of about 10m where as in Baga Block the shale is worked with a bench height of 6m
3m	Total area covered under excavation/pits	66.67 ha		About 59.720 ha.
3n	Ore to OB ratio for the pit/mine during the year.	1:000		No OB is generated, as proposed.
3o	Total area put in use under different heads at the end of year	-		Pit- 59.72 ha. Roads - 12.45 ha. Infrastructure- 0.03 ha.

3p	Production of ROM mineral during the last five year period as applicable	Limestone 2017-18: 4725000T 2018-19: 4725000T 2019-20: 4725000T 2020-21: 4725000T 2021-22: 4725000T Shale 2017-18: 525000T 2018-19: 525000T 2019-20: 525000T 2020-21: 525000T 2021-22: 525000T	Limestone 2017-18: 1488319T 2018-19: 2656874T 2019-20: 2508208T 2020-21: 2263029T 2021-22: 2692445T Shale 2017-18: 168075T 2018-19: 324817T 2019-20: 281529T 2020-21: 259702T 2021-22: 296352T
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3q	General remarks of inspecting officers on method of mining etc.	-	-	-
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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)	Not proposed	Not generated as well	
4b	Location of topsoil, OB and mineral reject dumps	Not Proposed	Not applicable	
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)	Not proposed	Not applicable	
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.	-	No new Retaining Wall has been prepared.	Retaining wall provided
4i	Length of Retaining wall or garland drain all along dumps	-	NIL	
4j	Number of settling ponds	-	-	Check dams have been provided along the water way which not only arrests the silt but also act as settling pond.
4k	Specific comments of inspecting officer on waste dump management	NA	NA	-

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	Not Applicable	
5b	Area under backfilling of mined out area	Not proposed	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	Not proposed	Not Applicable	
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).	-	Submitted	
6b	Area available for rehabilitation (ha) .	-	Not applicable at present	
6c	afforestation done (ha).	Not Applicable	Not Applicable	
6d	No. of saplings planted during the year	1000 saplings over 0.5 ha. proposed	5260 Nos over 2.5 hectare undertaken	
6e	Cumulative no .of plants	Undertaken	All the reports are proposed to be under permissible limit.	
6f	Any other method of rehabilitation	-	-	
6g	Cost incurred on watch and care during the year	-	-	
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	1000 saplings over 0.5 ha. proposed	5260 Nos over 2.5 hectare undertaken
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1000 saplings over 0.5 ha. proposed	5260 Nos over 2.5 hectare undertaken
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Undertaken	All the reports are proposed to be under permissible limit.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Undertaken	All the reports are proposed to be under permissible limit
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	-	Entire ROM is dispatched without sorting.	
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	Not Applicable	Except for the grinding , no processing of the mineral is undertaken.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	Entire limestone is used by blending as proposed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not applicable	Not applicable	
8b	Concurrent use or storage of topsoil	Not applicable	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not applicable	Not applicable	
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	Area is not mature for the purpose
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	-	

8g	Survival rate	-	About 70% survival reported	
8h	Water sprinkling on roads to control airborne dust	-	Undertaken as proposed	
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	Proposal Given	Monthly & Annul Report Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	-	Found to be as per submission	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	-	Found to be broadly as per submission	
9d	Scrutiny of Annual return on afforestation	-	Found to be broadly as per submission	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	-	Nil generation reported and observed as well.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	-	Found to be as per submission	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	-	Rs 283/- PMT has been reported for the entire production from the mines	

9h	Scrutiny of Annual return on fixed assets	-	Fixed assets as per Annual return.	one crusher (baga block) has been installed in the mine lease area. However another crusher is installed outside the lease area.
9k	Scrutiny of Annual return on mining machineries	-	As per submission in returns.	

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