

**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 : **G021**) **DATA RAM GURJAR**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : **SHRI S.K.SINHA,DY GM(MINING) ,JPHCP**
Official with
Designation
- (iv) Date of Inspection : 23/02/2017
- (v) Prev.inspection date : 16/03/2016

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 : baga.mining@jalindia.co.in
- Phone : (1978)249174,249174,249175
- (f) Police Station : DARALAGHAT
- (g) First opening date : 23/01/2010
- (h) Weekly day of rest : SUN
2. Address for : JAI PEE HIMACHAL CEMENT PLANT
correspondance VILLAGE - BAGA, PO - KANDHAR
TEHSHIL - ARKI, DISTT- SOLAN (HP)
3. (a) Lease Number : HPR0085
- (b) Lease area : 331.42
- (c) Period of lease : 30
- (d) Date of Expiry : 28/09/2037
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 : SUNNY GAUR
 JAY PEE HIMACHAL CEMENT
 PLANT VILLAGE - BAGA, PO -
 KANDHAR TEHSHIL - ARKI,
 DIST - SOLAN SOLAN HIMACHAL
 PRADESH
 Phone:
 FAX :

Mining Engineer

Name : Kaushik Das, Full Time
 Qualification : B.E. (Mining)
 Appointment/ : 12/10/2007 19/06/2014
 Termination date

Mining Engineer

Name : SURAJ KUMAR GUPTA, Full Time
 Qualification :
 Appointment/ : 11/01/2016
 Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 01/06/2005
 Plan/Scheme of Mining : Modif. of approved Mining Plan 19/12/2012

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|--|---------|
| 1a | Backlog of previous year | No Backlog | N/A | |
| 1b | Exploration over lease area for geological axis 1 or 2 | No proposal | N/A | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | N/A | N/A | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Nil | Nil | |
| 1e | Balance reserve as on 01/04/20 | Balance reserves as on 01.04.2016. Limestone =118.10 Million Ton | Balance reserves as on 01.04.2016. Limestone =118.10 Million Ton | |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

| | | | |
|----|--|---|---|
| 2a | Location of development w.r.t.lease area | Bhalag Village From =N-15700 E-13900, N-15700 E-14440 to N 16120 E13710, N-15925 - E14100 Bhalag Low Grade From =N-15740- E-13720, N-15820- E-13750 to N 15800- E13860, N- 15880 - E 13750 Bhalag Crusher Side From =N-16240- E-13240, N-16340- E-13260 to N 16380- E13050, N-16415 - E 13090 | Bhalag Village From =N-15700 E-13900, N-15700 E-14440 to N 16120 E13710, N- 15925 - E14100 Bhalag Low Grade From =N-15740- E-13720, N-15820- E-13750 to N 15800- E13860, N- 15880 - E 13750 Bhalag Crusher Side From =N-16240- E-13240, N-16260- E-13210 to N 16400- E 13080, N- 16415 - E 13090 |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Bhalag Village From 1310 to 1280 (3benches) Bhalag Low Grade From 1390 to 1380(1bench) Bhalag Crusher Side From 1340 to 1250 (10 benches) Baga Shale From 1600 to 1570 (3 benches) | Bhalag Village From 1310 to 1280(3benches) Bhalag Low Grade From 1390 to 1380(1bench) Bhalag Crusher Side From 1270 to 1250 (2 benches) Baga Shale From 1590 to 1570 (2 benches) |
| 2c | Stripping ratio or ore to OB ratio | 1:0 | 1:0 |
| 2d | Quantity of topsoil generation in m3 | Nil | Nil |

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|----|---|-----|-----|
| 2e | Quantity of overburden generation in m3 | Nil | Nil |
|----|---|-----|-----|

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|---------|
| 3a | Number of pit proposed for production | 3 | 3 | |
| 3b | Quantity of ROM mineral production proposed | Total =5.25 M Ton 4.75 M Ton Limestone & 0.525 M Ton Shale | 2.70 M Tons & 0.33 M Ton (Limestone & Shale)= 3.04 M Ton | |
| 3c | Recovery of sailable/usable mineral from ROM production | 100% | 100% | |
| 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. | Not applicable | Not applicable | |
| 3g | Grade of sub grade mineral generation | Not applicable | Not applicable | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | No Proposal | Not applicable | |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No proposal | Not applicable | |
| 3j | Provision of drilling and blasting in mineral benches | As per MP/SOM | As per MP/SOM | |

| | | | |
|----|--|---|---|
| 3k | Provision of mining machineries in mineral benches | Dumper excavator combination | Dumper excavator combination |
| 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 | 39.64 Ha. | 36.72 Ha. |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0 | 1:0 |
| 3o | Total area put in use under different heads at the end of year | 7.1 Ha | 6.2 Ha. |
| 3p | Production of ROM mineral during the last five year period as applicable | Proposed production for the last five years(Limestone + Shale): 2011-12:3.10mt, 2012-13:5.25mt, 2013-14:5.25mt, 2014-15:5.25mt, 2015-16:5.25mt | Actual production for the last five years(Limestone + Shale): 2011-12:3.343mt, 2012-13:4.333mt, 2013-14:3.762mt, 2014-15:3.773mt, 2015-16:3.04mt |
| 3q | General remarks of inspecting officers on method of mining etc. | Opencast Fully mechanised mining method was proposed. | Opencast Fully mechanised mining method was adopted as per proposals. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|-------------|----------------|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | No proposal | Not applicable | |

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|----|--|---------------------------------|----------------|
| 4b | Location of topsoil, OB and mineral reject dumps | No Proposal | 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) | No proposal of waste generation | N/A |
| 4e | Number of active and alive dumps. | Zero | N/A |
| 4f | Number of dead dumps. | Zero | N/A |
| 4g | Number of dumps established. | Zero | N/A |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | No proposal | N/A |
| 4i | Length of Retaining wall or garland drain all along dumps | No proposal | N/A |
| 4j | Number of settling ponds | No proposal | N/A |

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 | N/A | |
| 5b | Area under backfilling of mined out area | No proposal | N/A | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | No proposal | N/A | |

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|----|--|-------------|-----|---------------------------------------|
| 5d | Total area fully reclaimed and rehabilitated | No proposal | N/A | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | Area is not matured for back filling. |

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 | Yes Submitted. | |
| 6b | Area available for rehabilitation (ha) . | No proposal | N/A | |
| 6d | No. of saplings planted during the year | 1000 | 1143 | |
| 6f | Any other method of rehabilitation | No proposal | N/A | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | No proposal | N/A | |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | All ROM dispatched to captive cement plant. | All ROM dispatched to captive cement plant. | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | No proposal | N/A | |

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|----|--|-------------|-----|---|
| 7c | Different grade of mineral sorted out at mines. | No proposal | N/A | |
| 7d | Any beneficiation process at mines | No proposal | N/A | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | No issue related to mineral conservation. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-----------------------------------|-------------|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | No proposal | N/A | |
| 8b | Concurrent use or storage of topsoil | No proposal | N/A | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | No proposal of waste generation | N/A | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | No Waste generation was proposad. | N/A | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No proposal during the last year. | N/A | |

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|----|--|--------------------------------|------------------------------|---|
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 1000 nos. plantation proposed. | 1143 nos. actual plantation. | |
| 8g | Survival rate | 60% | 60% | |
| 8h | Water sprinkling on roads to control airborne dust | Yes | Yes | To arrest dust use automatic sprinklers to spray water and Water tanker is moving on regular interval for sprinkling of water on roads to control airborne dust |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | | No adverse thing was observed in this regard. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|---------|
| 9a | Status of submission of Monthly and Annual returns | AR for the year 2015-16 & MR up to Feb 2017 submitted. | AR for the year 2015-16 & MR up to Feb 2017 submitted. | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Detail Given | Sh.Suraj Kumar Gupta, Mining Engineer, Shri Suhas Kumar Sinha, Geologist, Shri Shankernarayana K, Manager | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Detail Given | Detail Given | |
| 9d | Scrutiny of Annual return on afforestation | Given | 1143 | |

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|----|---|-------|--------|
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Given | Nil |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Given | Given |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Given | 136.00 |
| 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 |
| Rule 27(4) | 03/03/2017 | 27/03/2017 | | | |

Date :

(DATA RAM GURJAR)

Indian Bureau of Mines