

**INDIAN BUREAU OF MINES  
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**

**MCDR INSPECTION REPORT**

**Dehradun regional office**

**Mine file No :** HP/SOLAN/LST-2

**Mine code :** 38HPR11004

- (i) Name of the Inspecting : **S038** ) **SHAILENDRA SAKLANI**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : S.K SINHA, MANAGER MINES  
Official with  
Designation
- (iv) Date of Inspection : 10/10/2014
- (v) Prev.inspection date : 20/05/2014

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BAGA-BHALAG**
- (b) Category : A Fully Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
- State : HIMACHAL PRADESH
- District : SOLAN
- Village : BAGABHALAG DARLAMORE
- Taluka : SOLAN
- Post office : KANDHAR
- Pin Code : 171102
- FAX No. : (1978)249178
- E-mail :
- Phone : (1978)249174,249174,249175
- (e) Police Station : DARALAGHAT
- (f) First opening date : 23/01/2010
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 :

Agent : K. P. SHARMA  
JAYPEE HIMACHAL CEMENT  
PLANT VILLAGE - BAGA, PO -  
KANDHAR TEHSHIL - ARKI,  
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

## Manager

Name : B.K.Ghoshal  
Qualification :  
Appointment/ : 24/08/2004  
Termination date

6. Date of approval of Mining : 19/12/2012  
Plan/Scheme of Mining

## PART - II : TECHNICAL DETAILS/COMMENTS

## 1. Details about Average employment :

Maximum number of persons employed on any day during the year

Employment category	No. of employment	Av. yearly working days
<b>DIRECT</b>		
Managerial	5	275
Supervisory	11	275
<b>CONTRACT</b>		
Workers	95	275

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towards socio-economic development.

Action during the year	Expenditure in Rs. Lakhs for				Remarks
	previous year		current year		
	Proposed	Incurred	Proposed	Incurred	
<b>General</b>					
Housing					*****
Health		49.60		908.67	
Water supply		2.95		68.62	
Sanitation				98.00	
<b>Sub total</b>		<b>52.55</b>			<b>*****</b>
<b>Infrastructure</b>					
Public transport			289.01		*****
<b>Sub total</b>			<b>52.55</b>		<b>*****</b>
<b>Recreation</b>			<b>23.35</b>	<b>280.10</b>	
<b>Training</b>			<b>30.23</b>		<b>*****</b>
<b>Others</b>				<b>2.08</b>	
<b>Environment management</b>			<b>270.36</b>		<b>*****</b>
<b>Total</b>			<b>665.50</b>		<b>*****</b>

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

No outstanding violation exist at the mine. During the current inspection, violation of rule 13(1) has been observed for not maintaing the width of few benches as per the proposals. The same has been pointed out to lessee for its rectification.

4. A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988, if recommended.

It is not recommended for suspension of mining operations under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988.

## 5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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## A. Exploration (Rule 13)

a.Type of prospecting and exploration i.e. pitting, drilling : it was proposed that during the year 2013-14, 15 boreholes shall be drilled from BLGRS 46 to BLGRS 60.

The same has been carried out as per proposals.

b.Total area covered : As per proposals 15 boreholes shall be drilled with a grid of 100 meters totalling a meterage of 1500 meters.

The same has been carried out.

## B. Working (Rule 13)

a.Number and size of each pit (LxWxH) : 2Pits were proposed , in Bhalag & 1 in Baga Block.In Bhalag Block.In all the pits mining was proposed by formation of benches of 10 m height and 20 mts. width each.

Mining has been carried out as per the proposals contained in the mining plan. The size of the pits are 519.86 Lx 374.85 Wx1400 to 1190mrl H in Bhalag block & 408.22 Lx303.33 Wx 1640 to 1450 H in baga block. At the time of inspection workings were confined in bhalag bock for winning limestone. Shale is excavated in baga block. Working were more or less as per the proposals.

b.Bench size(LxWxH)length can be defined as regular/irregular : It was proposed that mining shall be carried out by formation of benches having width of 20mts and height 10 mts. each.

During the inspection it was observed that height of the benches have been maintained as per the proposals. However, width has not been maintained in some of the benches for which violation has been pointed out to lessee for immediate rectification.

c.Ore to waste ratio pit wise if possible otherwise for mine : no waste is generated hence no proposals have been incorporated in the approved mining plan.

Not applicable.

d.Total area covered under excavation/pits : By the end of 2013-14 approximately 49.49 hectares of area shall be

More or less the same has been carried out.

covered under excavation/ pits. Modified mining plan was approved on 19.12.2012.

### C. Waste disposal (Rule 13)

- |  |   |   |
|--|---|---|
| a. Location of dumps   | : No proposal was given for location of dumps as there is no generation of waste. | Dumps have not been observed during the inspection    |
| e. Yearly generation of waste quantity.                        | : No proposal was given for location of dumps as there is no generation of waste. | NIL   |
| b. Method of dumping whether advancing/retreat                 | : No proposal was given for location of dumps as there is no generation of waste. | Not applicable  |
| c. Total area covered under waste dump.                        | : No proposal was given for location of dumps as there is no generation of waste. | Not applicable  |
| d. No. and size of each waste dump with No of steps/lift/bench | : No proposal was given for location of dumps as there is no generation of waste. | Not applicable as no waste is generated from the mine |

### D. Production

- |  |   |   |
|--|---|---|
| b. Year wise production of last five year. | : As per approved mining plan 4.725 million tonnes of limestone and 0.525 million tonnes of shale was proposed to be excavated. | Yearwise production for the last five years is given below:<br>Actual Production in Lac Tonnes<br>2009-10 = 3.10<br>2010-11 = 33.49<br>2011-12 = 33.43<br>2012-13 = 43.33<br>2013-14 = 33.929 |
|--|---|---|

### D. Reserve

- |  |   |   |
|--|---|---|
| a. Reserve position as per latest MP/MS and at the time of inspection. | : Modified mining plan was approved on 19.12.2012. As per plan a total of 142.61 million tonnes of limestone have been kept under 111 category. | Out of the above, 5.75 million tonnes have been depleted during the last two years. |
|--|---|---|

**6. Conservation of Mineral - both quantitative and qualitative****Beneficiation (Rule 20 and 26)**

Efforts for improving low grade and sub grade mineral. : None at present as all mineral is being utisized in captive cement plant

Efforts for improving percentage of recovery of ore. : None at present as all mineral is being utisized in captive cement plant

**Minearl Rule 15**

Percentage of recovery of ore pitwise w.r.t. ROM and total material : It is nearly 100%.

Number of benches in ore and waste. : Waste Benches = NIL  
Ore benches = 23 in Bhalag Block for limestone  
05 in Baga Block for shale

**Sub/grd mineral/fines (Rule16)**

Qty of yearly generation and total qty available during inspection with grade : Not applicable as there is no subgrade mineral generation

Number and size of each stack : Not applicable as there is no subgrade mineral generation

Location of stacking. : Not applicable as there is no subgrade mineral generation

Separate stacking from waste : Not applicable as there is no subgrade mineral generation

Total area covered for stacking : Not applicable as there is no subgrade mineral generation

**7. Environment Management - both quantitative and qualitativ****A. Land environment**

- a. Landscape. : Mines lies in the hilly terrain of village Baga & Bhalag. The area is Undulating as well being hilly area.
- b. Aesthetic environment : Aesthetic enviroment is Good.
- c. Soil and land use pattern : Land use pattern in Ha  
 Forest land = 25.3032 (Diverted for non-forest purpose)  
 Govt. Waste land = 8.4694  
 Govt. Pasture land = 190.5556  
 Private Land = 107.0958  
 Total = 331.424
- d. Agriculture : No Agriculture work found withion the vicinity of mining lease area.
- e. Forest(flora and fauna) : Forest land of 25.3032 Ha has been diverted for Non-forest purpose.
- f. Vegetation : Scattered local species are grown in the area.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : No Public building, places and monuments (protected, historical), places of tourist exist within the lease area.

**B Water environment.**

- a. Surface water : No surface water body present within lease area
- b. Ground water : Ground water found 150-200m below from surface.
- c. Quality of water : Ground Water is potable and suitable for agriculture

**C. Air environment**

- a. Noise : No noise pollution is observed above permissible limit due to mining
- b. Air : No air pollution is observed above permissible limit due to mining
- c. Climatic condition : Cold during winter and pleasant during summer.

**D. Socio economic environment**

- a. Social and demographic profile. : Villagers of the area are farmers & some of them are working in mines as well as outside in private & government services.
- b. Recommending health and safety. : No health and safety hazards were observed.
- c. Human settlement : Few hutments and human settelment were present within the lease area and small villages exist surrounding the area.
- d. Recreational facility. : Recreation facility is provided to the mine workers and Rs 23.35 lakhs has already been incurred in the previous financial year.

**8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.**

Scrutiny of the annual return of the mine for the year 2013-14 has been done mainly relating to questioned items and no major shortcoming were observed.



**PART - III : PERFORMANCE OF MINE OWNER**

(In case of lease expiring within 2 years - as per guidelines)

**a. Compliance of terms and conditions of lease deed.**

As the Mining lease is not going to expire within two years, hence not applicable.

**b. Compliance of the provisions of MCDR, 88 and advise given.**

As the Mining lease is not going to expire within two years, hence not applicable.

**c. Conduct with regard to adoption of safety measures and forest wealth, ecology and environment in the mining lease area.**

As the Mining lease is not going to expire within two years, hence not applicable.

**d. Whether the mine owner has carried out exploration and exploitation on the basis on surface mapping, pitting, trenching and core drilling taking in to consideration the mode of occurrences of mineral deposit.**

As the Mining lease is not going to expire within two years, hence not applicable.

**e. Whether production from mining area is commensurate with the reserves and the long term progress of utilization of mineral.**

As the Mining lease is not going to expire within two years, hence not applicable.

**f. Whether adequate investment has been made by the lessee on the development of mine on mining machinery, operational and administrative building, residential accommodation for the employees.**

As the Mining lease is not going to expire within two years, hence not applicable.

**g. Measures taken by the lessee for protection of environment and ecology.**

As the Mining lease is not going to expire within two years, hence not applicable.

**h. In case leases where the mineralisation tends to exhaust within the present period, the status of closing operation in phases and the special issues including human issues to be addressed at the time of closing of mine.**

As the Mining lease is not going to expire within two years, hence not applicable.

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

None at present

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

None at present

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

None at present

Date :

(SHAIENDRA SAKLANI)

Indian Bureau of Mines