

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

**MCDR INSPECTION REPORT**

**Nagpur regional office**

**Mine file No :** MAH/YTL/LST-53/NGP

**Mine code :** 38MSH26020

- (i) Name of the Inspecting : **M017** ) **ASHISH MISHRA**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Purohit, POA Holder, Shri N. K. Pashine, QP  
Official with  
Designation
- (iv) Date of Inspection : 14/05/2018
- (v) Prev.inspection date : 17/07/2011

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **HIWARDARA (L. BRITT) 20H**
- (b) **Registration NO.** : **IBM/9646/2012**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MAHARASHTRA
- District : YEOTMAL
- Village : HIWARDARA
- Taluka : WANI
- Post office : NERUD
- Pin Code : 445304
- FAX No. :
- E-mail :
- Phone : 25648, 25848
- (f) **Police Station** :
- (g) **First opening date** : 01/12/1994
- (h) **Weekly day of rest** : MON
2. **Address for correspondance** : C/O: PUROHIT CEMENT PVT.LTD;  
A-42, M. I. D. C. TAH.- WANI,  
DISST. YAVATMAL- 445304 (M. S.)
3. (a) **Lease Number** : MSH0113
- (b) **Lease area** : 20
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 06/05/2014
4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : Shri L.Britt  
 C/o Purohit Cement Pvt.Lt  
 a/42,MIDC,Wani Distt.  
 Yavatmal (MS) YEOTMAL  
 MAHARASHTRA  
 Phone:  
 FAX :

Owner : Shri L.Britt  
 C/o Purohit Cement Pvt.Lt A  
 / 42,M.I.D.C,Wani Distt.  
 Yavatmal (MS) YEOTMAL  
 MAHARASHTRA  
 Phone:  
 FAX :

|                               |   |                                |            |
|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 14/08/2000 |
| Plan/Scheme of Mining         | : | Mining Scheme rule 12 MCDR1988 | 16/06/2009 |

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

| Sl.No. | Item  | Proposals    | Actual work  | Remarks   |
|--------|---|--------------|--|---|
| 1a     | Backlog of previous year  | No proposals | No exploration work has been done.   | Last document approved was SOM which was for the period 2009-10 to 201-14, approved on 16/06/2009. Afterwards, the Review of Mining Plan was submitted for 2014-15 to 2018-19 with 2014-15 to 2017-18 as lapse period. Further, exploration carried out in the area is in form of Geological mapping and surface sampling only done by DGM, Maharashtra during 1982-83. |
| 1b     | Exploration over lease area for geological axis 1 or 2              | No proposals | In the last approved SOM, Reserves were reported as:<br>111- 2100000 T<br>121 & 122- 1300000 T | Reserves reported are apparantly on higher side without any backing of exploration. It is based on pits actually present in the area, their influence and vertical influence also which is incorrect as per MEMC Rules'2015.  |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | No proposals | No exploration carried out. Hence Nil.   |   |

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| 1d | Balance area to be explored to bring Geological axis in 1 or 2     | No proposals   | Nil  | Complete area needs systematic exploration and development. though the formation in the area suggests occurrence of Limestone but depth continuity and lateral mineralization needs detailed exploration. No bore holes have been drilled in the area so far.   |
| 1e | Balance reserve as on 01/04/20                                     | 111- 2100000<br>121 & 122-<br>1300000 (as<br>per last<br>approved SOM) | Can not be stated till systematic exploration carried out in the area by the lessee. |   |
| 1f | General remarks of inspecting officers on geology, exploration etc |  |  | Geologically the area has been proved for occurrence of Limestone by GSI and DGM, Maharashtra. DGM has explored the area through Geological mapping and surface sampling in 1982-83 and lease was granted to the lessee on 07/05/1994 but since then, no exploration has been carried out. Mine is not working since 2012-13. |

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Development :

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| Sl.No. | Item | Proposals | Actual work | Remarks |
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|----|--|--------------|-----|--|
| 2a | Location of development w.r.t.lease area                       | No proposals | Nil | Mine is not working since 2012-13. Total 19 pits scattered in the lease area wherein major pits are in the NE part of the lease. Except 3 pits i.e., Pit-18, 19 & 20 which are in the southern part, all pits are located between N400 to N700 & E150 to E750. Few pits (Pit-1, Pit-7 and Pit-20) are extending beyond the lease area for which a letter has been issued to State Govt. for taking necessary actions at their end. Their locations are: in between BP-1 and BP-2, near BP-4 and in between BP-4 & 5. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | No proposals | Nil | There is no systematic mining in the area and top soil is very less. Mostly the area has Limestone outcrops. Though top soil dump over an area of 0.16 ha has been shown in the Mining Plan document, the same could not be located during field inspection. All the waste dumps are lying besides the existing pits made at the time of working.  |
| 2c | Stripping ratio or ore to OB ratio                             | No proposals | Nil |  |
| 2d | Quantity of topsoil generation in m3                           | No proposals | Nil |  |

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|----|---|--------------|-----|---|
| 2e | Quantity of overburden generation in m3   | No proposals | Nil |   |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc |              |     | Development work in the area is not systematic. Scattered pits are there in the area alongwith waste dumps besides these pits. Further, mine is not working since 2012-13 and recommended to the State Govt. for determination. |

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#### Exploitation:

| Sl.No. | Item  | Propasals    | Actual work | Remarks  |
|--------|---|--------------|-------------|--|
| 3a     | Number of pit proposed for production                             | No proposals | Nil         | No production carried out.   |
| 3b     | Quantity of ROM mineral production proposed                       | No proposals | Nil         |  |
| 3c     | Recovery of sailable/usable mineral from ROM production           | No proposals | Nil         | Earlier, when the mine was operational, out of total excavation made, 70% has been considered as ROM while 30% as Waste. This ROM is 100% recovered and no sub-grade or mineral rejects are generated. |
| 3d     | Quantity of mineral reject generation                             | No proposals | Nil         |  |
| 3e     | Grade of mineral rejects generation and threshold value declared. | No proposals | Nil         |  |
| 3f     | Quantity of sub grade mineral generation.                         | No proposals | Nil         |  |

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|----|--|--------------|---|---|
| 3g | Grade of sub grade mineral generation  | No proposals | Nil   |   |
| 3h | Manual / Mechanised method adopted for segregating from ROM  | No proposals | Nil   |   |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.      | No proposals | Nil   |   |
| 3j | Provision of drilling and blasting in mineral benches  | No proposals | Nil   | Earlier Jackhammer drills were proposed for use with 33 mm diameter for 1.20 m deep drill holes.  |
| 3k | Provision of mining machineries in mineral benches   | No proposals | Nil   |   |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | No proposals | Nil   | Category proposed is B whereas bench height in the NE side pits is exceeding 5-6 m. Therefore, either the Category should be kept as per the existing site conditions or Benches should be re-oriented as per the present Category of mine. |
| 3m | Total area covered under excavation/pits   | No proposals | 2.56 ha (as per the draft Mining Plan document submitted) | Exact are under pits could not be identified as some of the pits were extending beyond the lease boundary for which action has been initiated by this office.   |
| 3n | Ore to OB ratio for the pit/mine during the year.  | No proposals | Nil   |   |

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| 3o | Total area put in use under different heads at the end of year           | No proposals  | Area under Mining: 2.56 ha<br>Top Soil stacks: 0.16 ha<br>Waste Dumps: 0.718 ha<br>Roads: 0.316 ha<br>Total: 3.754 ha<br>(As per draft Mining Plan document) |   |
| 3p | Production of ROM mineral during the last five year period as applicable | 2017-18: No proposals<br>2016-17: No proposals<br>2015-16: No proposals<br>2014-15: No proposals<br>2013-14: 23975<br>T | 2017-18: Nil<br>2016-17: Nil<br>2015-16: Nil<br>2014-15: Nil<br>2013-14: Nil   |   |
| 3q | General remarks of inspecting officers on method of mining etc.          |   |  | No comments as the mine is not working since 2012-13 and has been recommended to the State Govt. for determination. |

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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) | No proposals | Nil         | Area has been shown for separate Top Soil and Waste dumps in the land use.   |
| 4b     | Location of topsoil, OB and mineral reject dumps                 | No proposals | Nil         | Presently, there are 7 Waste Dumps all located in the NE part of the lease area besides the existing pits. D-1, D-2, D-3 and D-6 are comparatively larger dumps. Top soil dump could not be located at the time of inspection. |



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| 4c | Number of dumps within lease area and outside of lease area        | No proposals | 7 dumps (old) are present in the lease area.  | D-1 which is adjoining to Pit-1 may be extended beyond the lease area which may be firmly said only after State Govt.'s action on excavation beyond the lease area. |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | No proposals | All dumps are within the pit limits.  |   |
| 4e | Number of active and alive dumps.                                  | No proposals | There are 7 dumps in the area. As the mine is not working since long, these dumps have settled and stabilized through shrubs, grass etc. But all these are active dumps only and are not classified as dead dumps (which has accalaimed maturity and can be rehabilitated). |   |
| 4f | Number of dead dumps.  | No proposals | Nil   |   |
| 4g | Number of dumps established.                                       | No proposals | Nil   |   |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | No proposals | Nil   | No garland drain or retaining wall observed along the toe of dumps present in the lease area.   |
| 4i | Length of Retaining wall or garland drain all along dumps          | No proposals | Nil   |   |
| 4j | Number of settling ponds   | No proposals | Nil   |   |

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| 4k | Specific comments of inspecting officer on waste dump management | Waste dump management is poor for the area as no systematic dumping has been done. These dumps are to be kept outside the pit limits as far as possible and away from the working area to avoid any mixing with useful contents but the same has not been practised. |
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Solid Waste Management - Backfilling:

| Sl.No. | Item  | Proposals    | Actual work | Remarks  |
|--------|---|--------------|-------------|--|
| 5a     | Status of part or full extraction of mineral from mined out area before starting backfilling. | No proposals | Nil         | As per the last approved SOM, the pits are not proposed for any backfilling as the area has scarcity of water. The mined out pits shall be converted into a water reservoir for supporting the irrigation and other needs to the local habitats. |
| 5b     | Area under backfilling of mined out area  | No proposals | Nil         |  |
| 5c     | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)     | No proposals | Nil         |  |
| 5d     | Total area fully reclaimed and rehabilitated  | No proposals | Nil         | No area has been reclaimed or rehabilitated till date.   |

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| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | Due to scarcity of water, conversion of mined out pits into water reservoir shall be the best but safety and security should be maintained as the pit may take years for water accumulation due to average rainfall. Instead of using top soil for restoring mined out land, it may be used for stabilization of dumps. |
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## 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). | No proposals | Nil         | As the area has already been recommended to the State Govt. for determination, no violation has been issued. |
| 6b     | Area available for rehabilitation (ha) .                                     | No proposals | Nil         |  |
| 6c     | afforestation done (ha).   | No proposals | Nil         | There was no plantation by the lessee in the lease area (as observed during field inspection).               |
| 6d     | No. of saplings planted during the year                                      | No proposals | Nil         |  |
| 6e     | Cumulative no .of plants   | No proposals | Nil         |  |
| 6f     | Any other method of rehabilitation   | No proposals | Nil         |  |
| 6g     | Cost incurred on watch and care during the year                              | No proposals | Nil         |  |

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|----|--|--------------|-----|--|
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | No proposals | Nil | As per the last approved SOM, the pits are not proposed for any backfilling as the area has scarcity of water. The mined out pits shall be converted into a water reservoir for supporting the irrigation and other needs to the local habitats. |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | No proposals | Nil |  |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area          | No proposals | Nil |  |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir  | No proposals | Nil | As per the last approved SOM, the pits are not proposed for any backfilling as the area has scarcity of water. The mined out pits shall be converted into a water reservoir for supporting the irrigation and other needs to the local habitats. |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.                   | No proposals | Nil |  |

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|----|---|--------------|-----|--|
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation                          | No proposals | Nil | In the last approved SOM, green belt over 0.09 ha area has been reported between BP-3 and BP-4 but no plantation was found during the site inspection. |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)              | No proposals | Nil |  |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation             | No proposals | Nil |  |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                                | No proposals | Nil |  |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. |              |     | No operations under progressive closure have been undertaken. Earlier done plantation as reported in the last approved SOM has also been impaired.     |

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Mineral Conservation:

| Sl.No. | Item  | Proposals    | Actual work | Remarks   |
|--------|---|--------------|-------------|---|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area    | No proposals | Nil         | As per the records available, ROM is being graded and then sold at the time when the mine was in operation. |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical. | No proposals | Nil         |   |

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|----|--|--------------|-----|---|
| 7c | Different grade of mineral sorted out at mines.  | No proposals | Nil |   |
| 7d | Any beneficiation process at mines   | No proposals | Nil |   |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues |              |     | In the earlier period, 30% of the total excavation has been considered as waste (consisting of rejects and overburden or waste) and 70% as ROM which is 100% sold. No analysis for this 30% material has been done. Therefore, in future, if the mine starts operation, the rejects/waste which are being dumped as waste need to be analysed and mineral content, if any, need to be stacked separately. |

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Environment:

| Sl.No. | Item   | Proposals    | Actual work | Remarks |
|--------|--|--------------|-------------|---------|
| 8a     | Separate removal and utilization of topsoil (Rule 32)                  | No proposals | Nil         |         |
| 8b     | Concurrent use or storage of topsoil                                   | No proposals | Nil         |         |
| 8c     | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | No proposals | Nil         |         |

|    |   |              |     |  |
|----|---|--------------|-----|--|
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | No proposals | Nil | No such proposals were incorporated in the last approved SOM till conceptual stage.  |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No proposals | Nil |  |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | No proposals | Nil | Baseline information has been given in the approved Mining Plan for the lease area which was approved on 16/02/1993.   |
| 8g | Survival rate   | No proposals | Nil |  |
| 8h | Water sprinkling on roads to control airborne dust  | No proposals | Nil |  |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area                          |              |     | The area has scattered pits and dumps in the area in asystematic manner. As Limestone is occuring in outcrops and scarcity of top soil and water lies in the area, and also there is no working since 2012-13, the area is full of shrubs and grass. |

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Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
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|----|---|------------------------------------|--|---|
| 9a | Status of submission of Monthly and Annual returns  |                                    | Annual Returns submitted offline upto 2013-14<br>No online returns submitted for Monthly returns or Annual Returns | As the mine has not furnished any returns since 2014-15, it has been recommended to the State Govt. for determination.                        |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | No returns submitted since 2014-15 | Nil  |   |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | No returns submitted since 2014-15 | Nil  |   |
| 9d | Scrutiny of Annual return on afforestation  | No returns submitted since 2014-15 | Nil  |   |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | No returns submitted since 2014-15 | Nil  |   |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore                                      | No returns submitted since 2014-15 | Nil  | As per the last submitted returns for 2013-14, Graded Ore details are: Opening Stock: 23 T, Production and Dispatch: Nil, Closing Stock: 23 T |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | No returns submitted since 2014-15 | Nil  |   |
| 9h | Scrutiny of Annual return on fixed assets   | No returns submitted since 2014-15 | Nil  |   |
| 9k | Scrutiny of Annual return on mining machineries   | No returns submitted since 2014-15 | Nil  |   |

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**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 :**

**(ASHISH MISHRA)**

Indian Bureau of Mines