

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

**MCDR INSPECTION REPORT**

**Nagpur regional office**

**Mine file No :** MAH/YTL/LST-19/NGP

**Mine code :** 38MSH26022

- (i) Name of the Inspecting : **D025** ) **S. M. DORLE**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri A.N. Warwatkar  
Official with  
Designation
- (iv) Date of Inspection : 03/03/2017
- (v) Prev.inspection date : 19/08/2009

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **WANJRI (105,107,108&111)**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MAHARASHTRA
- District : YEOTMAL
- Village : WANJRI
- Taluka : WANI
- Post office : RAJUR
- Pin Code : 445309
- FAX No. : N.A.
- E-mail : N.A.
- Phone : 09822722224
- (f) **Police Station** : RAJULA
- (g) **First opening date** : 17/10/1966
- (h) **Weekly day of rest** : SUN
2. **Address for** : POST-RAJULA  
**correspondance** TAL-WANI  
DISTT.-YEOTMAL
3. (a) **Lease Number** : MSH0020
- (b) **Lease area** : 11.89
- (c) **Period of lease** :
- (d) **Date of Expiry** : 31/03/2030
4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : SHRI A.N.WARWATKAR  
 JAGNATH BUDHAWARI NAGPUR  
 NAGPUR MAHARASHTRA  
 Phone:  
 FAX :

Owner : Shri A.N.Warwatkar  
 Ward No.64, Jagnath  
 Budhwari,Itwari Nagpur (MS)  
 NAGPUR MAHARASHTRA  
 Phone:  
 FAX :

Mining Engineer  
 Name : SHRI A.N. RAJURKAR, Full Time  
 Qualification : BE(MINING)  
 Appointment/ : 20/09/1999  
 Termination date

|                               |   |                                |            |
|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 23/07/2004 |
| Plan/Scheme of Mining         | : | Renewal under rule 24 MCR1960  | 10/05/2007 |
|                               | : | Mining Scheme rule 12 MCDR1988 | 22/07/2013 |

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

## Exploration :

| Sl.No. | Item                                                                | Proposals                                   | Actual work                                                                                                                                          | Remarks                                                                                                                                             |
|--------|---------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1a     | Backlog of previous year                                            | 3 nos of boreholes proposed in 2013-14      | Not done                                                                                                                                             |                                                                                                                                                     |
| 1b     | Exploration over lease area for geological axis 1 or 2              | Not proposed                                | Not applicable                                                                                                                                       |                                                                                                                                                     |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | Rs 1000/- per meter                         | Not done                                                                                                                                             |                                                                                                                                                     |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | Not proposed                                | Nil                                                                                                                                                  |                                                                                                                                                     |
| 1e     | Balance reserve as on 01/04/20                                      | Reserves as on 01.04.2013 is 1339020 tonnes | The limestone production achieved during the year 2013-14 to 2016-17 was 32332 metric tonnes. The balance reserve as on 1.04.2017 was 1306688 tonnes |                                                                                                                                                     |
| 1f     | General remarks of inspecting officers on geology, exploration etc  |                                             |                                                                                                                                                      | The area is well explored by sinking 3 boreholes during initial commencement of mining operation and good deposit of limestone is well established. |

## Development :

| Sl.No. | Item                                                           | Proposals                                  | Actual work                                   | Remarks |
|--------|----------------------------------------------------------------|--------------------------------------------|-----------------------------------------------|---------|
| 2a     | Location of development w.r.t. lease area                      | central part of lease area.                | As per proposal.                              |         |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15) | No proposal of soil and overburden benches | No soil or overburden benches in working area |         |
| 2c     | Stripping ratio or ore to OB ratio                             | No proposal                                | Nil                                           |         |

|    |                                                                                         |                                        |                         |                                                                              |
|----|-----------------------------------------------------------------------------------------|----------------------------------------|-------------------------|------------------------------------------------------------------------------|
| 2d | Quantity of topsoil generation in m3                                                    | As per proposal no top soil generation | No topsoil generation   |                                                                              |
| 2e | Quantity of overburden generation in m3                                                 | No proposal of overburden generation   | No overburden generated |                                                                              |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc |                                        |                         | In the area no topsoil or overburden generated in the current scheme period. |

### Exploitation:

| Sl.No. | Item                                                              | Propasals                                                                    | Actual work                                                                 | Remarks |
|--------|-------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------|
| 3a     | Number of pit proposed for production                             | One number of pits proposed for production                                   | Working in one pit only                                                     |         |
| 3b     | Quantity of ROM mineral production proposed                       | 50625 tonnes of salable limestone mineral production proposed during 2016-17 | 5168 tonnes of salable limestone mineral production proposed during 2016-17 |         |
| 3c     | Recovery of sailable/usable mineral from ROM production           | 90% from ROM mineral                                                         | As per proposal                                                             |         |
| 3d     | Quantity of mineral reject generation                             | Quantity of mineral reject generation not proposed                           | Mineral reject not generated                                                |         |
| 3e     | Grade of mineral rejects generation and threshold value declared. | Not Applicable                                                               | Nil                                                                         |         |
| 3f     | Quantity of sub grade mineral generation.                         | Sub grade Mineral generation not proposed                                    | Sub grade mineral not generated                                             |         |
| 3g     | Grade of sub grade mineral generation                             | Not Applicable                                                               | Sub grade Mineral not generated                                             |         |
| 3h     | Manual / Mechanised method adopted for segregating from ROM       | Manual method proposed for segregating from ROM                              | Manual method adopted for segregating from ROM                              |         |

|    |                                                                                                      |                                                                                                 |                                                                                                      |                                                                 |
|----|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 3j | Provision of drilling and blasting in mineral benches                                                | Proposed drilling and blasting in mineral benches                                               | Drilling and blasting is done in the mineral benches                                                 |                                                                 |
| 3k | Provision of mining machineries in mineral benches                                                   | Not proposed                                                                                    | Nil                                                                                                  |                                                                 |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Height of benches in overburden and mineral suitable for method of mining proposed in SOM       | As per proposal                                                                                      |                                                                 |
| 3m | Total area covered under excavation/pits                                                             | Proposed 6.00 Hect area covered under excavation/pits                                           | Around 6.00 Hect area covered under excavation/pit                                                   |                                                                 |
| 3n | Ore to OB ratio for the pit/mine during the year.                                                    | Nil                                                                                             | Nil                                                                                                  |                                                                 |
| 3o | Total area put in use under different heads at the end of year                                       | Proposed total area put in use under different heads at the end of year is 6.62 Hect            | Total area covered under excavation/pits is around 6.42 hectis around 6 hectis.                      |                                                                 |
| 3p | Production of ROM mineral during the last five year period as applicable                             | Production of ROM mineral is 138375 tonnes during last four year period (2013-14- to 2016-2017) | Actual production of ROM mineral is 32332 tonnes during last four year period (2013-14- to 2016-17). |                                                                 |
| 3q | General remarks of inspecting officers on method of mining etc.                                      |                                                                                                 |                                                                                                      | Target of production has not been achieved as low market demand |

Solid Waste Management - Dumping:

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

|    |                                                                    |                                              |                  |                                                                             |
|----|--------------------------------------------------------------------|----------------------------------------------|------------------|-----------------------------------------------------------------------------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)   | No proposal given in scheme of mining        | Not applicable   |                                                                             |
| 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        | Proposal of dumping site near lease boundary | As per proposal. |                                                                             |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | Location of dumps are proposed near UPL      | As per proposal  |                                                                             |
| 4e | Number of active and alive dumps.                                  | 2 numbers of active & alive dumps            | As per proposal  |                                                                             |
| 4f | Number of dead dumps.                                              | Not proposed                                 | Nil              |                                                                             |
| 4g | Number of dumps established.                                       | Nil                                          | nil              |                                                                             |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Not proposed                                 | Nil              |                                                                             |
| 4i | Length of Retaining wall or garland drain all along dumps          | Not Applicable                               | Nil              |                                                                             |
| 4j | Number of settling ponds                                           | Not proposed                                 | Nil              |                                                                             |
| 4k | Specific comments of inspecting officer on waste dump management   |                                              |                  | The dumps will have to be rehandled for backfilling of the mined out land . |

#### 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 as mineral not extract in whole | Not applicable |         |

|    |                                                                                           |                                                       |                |                                                                                                                        |
|----|-------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------|
| 5b | Area under backfilling of mined out area                                                  | Nil                                                   | Nil            |                                                                                                                        |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Presently not use as no phase of backfilling started. | Not Applicable |                                                                                                                        |
| 5d | Total area fully reclaimed and rehabilitated                                              | Not proposed                                          | Not applicable |                                                                                                                        |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc.                |                                                       |                | Presently external dumping is being carried out. Backfilling shall commence when sufficient wide mined area available. |

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Progressive Mine Closure Plan:

| Sl.No. | Item                                                                         | Propasals                                                             | Actual work                          | Remarks |
|--------|------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------|---------|
| 6a     | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | Proposed for Annual report on PMCP                                    | Annual report of 2016-17 submitted   |         |
| 6b     | Area available for rehabilitation (ha) .                                     | Nil                                                                   | No area available for rehabilitation |         |
| 6c     | afforestation done (ha).                                                     | 100 tress proposed per year during plan period.                       | Around 50 trees planted              |         |
| 6d     | No. of saplings planted during the year                                      | Proposed 100 nos per year                                             | Around 50 nos. planted in total      |         |
| 6e     | Cumulative no .of plants                                                     | Proposed 400 nos.                                                     | Around 50 nos of treess planted.     |         |
| 6f     | Any other method of rehabilitation                                           | Not proposed                                                          | Nil                                  |         |
| 6g     | Cost incurred on watch and care during the year                              | Proposed Rs 52000 during the year 2016-17 for afforestation on dumps. | Not implementated                    |         |

|    |                                                                                                            |     |     |
|----|------------------------------------------------------------------------------------------------------------|-----|-----|
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | Nil | Nil |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | Nil | Nil |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area       | Nil | Nil |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir  | nil | Nil |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.                   | Nil | Nil |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation                                   | Nil | Nil |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)                       | Nil | Nil |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation                      | Nil | Nil |

|    |                                                                                                   |          |      |                                                                                                                                              |
|----|---------------------------------------------------------------------------------------------------|----------|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                                | Proposed | Done |                                                                                                                                              |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. |          |      | Plantation has been done, no proposal for backfilling. The proposed measures for progressive closure of mine are being complied in the mine. |

#### Mineral Conservation:

| Sl.No. | Item                                                                                   | Propasals                                               | Actual work                                                     | Remarks                                                                                                                                                                                                                                        |
|--------|----------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area                           | Grade-wise sorting of ROM mineral within lease area     | As per proposal grade-wise sorting of mineral within lease area |                                                                                                                                                                                                                                                |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical.                        | Proposed method of grade-wise mineral sorting is manual | Method of grade-wise mineral sorting is manual                  |                                                                                                                                                                                                                                                |
| 7c     | Different grade of mineral sorted out at mines.                                        | Cement grade limestone                                  | Cement grade Limestone                                          |                                                                                                                                                                                                                                                |
| 7d     | Any beneficiation process at mines .                                                   | No beneficiation process adopted at mines               | Not Applicable                                                  |                                                                                                                                                                                                                                                |
| 7e     | General remarks of inspecting officer on Mineral conservation and beneficiation issues |                                                         |                                                                 | The ROM is processed to 100mm to 200mm sizes and lessee supplied to the end users as per specific requirement. No cemical process is involved for upgrading the grade of limestone. The present use of limestone is for Lime and Cement grade. |

## Environment:

| Sl.No. | Item                                                                                                        | Propasals                                                                                    | Actual work                                        | Remarks                                                                     |
|--------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------|
| 8a     | Separate removal and utilization of topsoil (Rule 32)                                                       | As per proposal no topsoil generation                                                        | No topsoil generation                              |                                                                             |
| 8b     | Concurrent use or storage of topsoil                                                                        | Not Applicable                                                                               | Not Applicable                                     |                                                                             |
| 8c     | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | Separate dumps for overburden proposed near 7.5 m boundary                                   | Seperate overburden dump maintain as per proposal. |                                                                             |
| 8d     | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | Not proposed                                                                                 | Not Applicable.                                    |                                                                             |
| 8e     | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Not proposed                                                                                 | Not Applicable                                     |                                                                             |
| 8f     | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | Baseline study done. It was proposed to plants 25 no. of plants per year during last 5 year. | Around 50 nos. of plants planted in the area.      |                                                                             |
| 8g     | Survival rate                                                                                               | Not proposed                                                                                 | about 50%                                          |                                                                             |
| 8h     | Water sprinkling on roads to control airborne dust                                                          | Not proposed.                                                                                | Not done                                           |                                                                             |
| 8i     | General remarks of inspecting officer on aesthetic beauty in and around mines area                          |                                                                                              |                                                    | The terrain is undulating. The general aesthetic beauty of the land is fair |

## Compliance of Rule 45:

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

|    |                                                                                               |                                                                                                                           |                                                                                                                       |
|----|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 9a | Status of submission of Monthly and Annual returns                                            | Monthly return submitted upto March 2017<br>Annual return submitted upto 2016-17                                          | It is found that most of the columns filled up correctly                                                              |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Shri G.M.Gedam , BE(mining) ,Part time Mining Engineer                                                                    | The mining engineer was present during inspection. The notice of appointment has been received.                       |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | The area under opencast working is given as 9.50 hectes<br>Under reclaimed area-NIL<br>dumps and plantation - 0.40 hectes | The details are found correct as on date of inspection the area under pit and dumps as reported in the annual return. |
| 9d | Scrutiny of Annual return on afforestation                                                    | Information given about plantation 100 plants within lease and 20 no outside lease area                                   | information found more or less correct                                                                                |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | Not given                                                                                                                 | Not generated                                                                                                         |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore                                      | Given                                                                                                                     | found correct                                                                                                         |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | Information Given                                                                                                         | Cost of production showing Rs 290.- per tonne                                                                         |
| 9h | Scrutiny of Annual return on fixed assets                                                     | Information Given. Cost of production showing Rs 290.- per tonne                                                          | --                                                                                                                    |
| 9k | Scrutiny of Annual return on mining machineries                                               | Given                                                                                                                     | found correct                                                                                                         |

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**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) | 21/03/2017 | 30/05/2017    | MCDR17              | Rule 11(1) | 21/03/2017 |               |
| MCDR17             | Rule 11(2) | 21/03/2017 | 30/05/2017    | MCDR17              | Rule 11(2) | 21/03/2017 |               |
| MCDR17             | Rule 11(3) | 21/03/2017 |               |                     |            |            |               |
| MCDR17             | Rule 11(4) | 21/03/2017 |               |                     |            |            |               |

**Date :**
**(S. M. DORLE)**

Indian Bureau of Mines