

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST- 240

Mine code : 38MPR47100

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 06-FEB-20
- (v) Prev.inspection date : 10-FEB-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NANHWARA (32.48 HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village : NANHWARA
Taluka : VIJAYRAGHAVGARH
Post office : NANHWARA KALA
Pin Code :
FAX No. : NA
E-mail : NA
Phone : NA
- (f) Police Station : KYMORE
- (g) First opening date : 18-JAN-97
- (h) Weekly day of rest :
2. Address for : SHRI TRILOKI NATH AGRAWAL
correspondance : CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR1474
(b) Lease area : 12.97
(c) Period of lease : 20
(d) Date of Expiry : 23-MAR-99
4. Mineral worked : LIMESTONE Main
DOLOMITE Associated

5. Name and Address of the

Lessee : TRILOKI NATH AGRAWAL
CIVIL LINES KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : TRILOKI NATH AGRAWAL
CIVIL LINES KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 08-AUG-08
Plan/Scheme of Mining MP review under 17(1) MCR 2016 14-MAY-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---|--|---|
| 1a | Backlog of previous year | 2018-19=3 2019-20=4 boreholes proosed | no exploration work carried out | voilation for the same issued under rule 11(1) of MCDR 2017 |
| 1b | Exploration over lease area for geological axis 1 or 2 | ML area is explored upto G2 level | ML area is explored upto G2 level G1-0 G2-28.73 hect unexplored-3.75 hect | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | not metioned | as no exploration work carried out no details of exploration agency given / provided | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | ML area is explored upto G2 level further exploration required | ML area is explored upto G2 level G1-0 G2-28.73 hect unexplored-3.75 hect | |
| 1e | Balance reserve as on 01/04/20 | as on 01.04.2018 122-6075000 222-1252125 333-2991100 | as on 01.04.2019 122-6056016 222-1252125 333-2991100 | units are in tonnes |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | limestone of the ML area belongs to rohtas formation of semri group of vindhyan super group in the kymore hill region in katni dstrict, said exploration was not carried out. voilation for the same issued |

Development :

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

| | | | | |
|----|---|---|---|--|
| 2a | Location of development w.r.t.lease area | in the year 2019-20 it was proposed to work in the quarry-1, towards southern direction advancement | workign was in the said location od quarry-1, but with deviation in mineral benches and development | voilation issued for the same under rule 11(1) of mcrd 2017 |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | proposed | sepaate bench were not maintained as per proposal | voilation were issued for 11(1) |
| 2c | Stripping ratio or ore to OB ratio | 1:0.28 | working was deviated from the proposal and removal of OB and soil not recorded by the lessee | voilation were issued for the same |
| 2d | Quantity of topsoil generation in m3 | 10560 cu m | details not recorde by the lessee | |
| 2e | Quantity of overburden generation in m3 | 17034 cu m | details not recorde and not furnished in the AR | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | development was deviated from the said proposal, voilation for the deviation were issued under rule 11(1) of MCDR 2017 |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--------------|---|---------|
| 3a | Number of pit proposed for production | single pit | quarry-1 was proposed to work in the year | |
| 3b | Quantity of ROM mineral production proposed | 69555 tonnes | 26795 tonnes | |
| 3c | Recovery of sailable/usable mineral from ROM production | 80% | 75-80% | |

| | | | | |
|----|---|--|--|---------------------|
| 3d | Quantity of mineral reject generation | not applicable | nil | |
| 3e | Grade of mineral rejects generation and threshold value declared. | not proposed | nil | |
| 3f | Quantity of sub grade mineral generation. | not proposed | nil | |
| 3g | Grade of sub grade mineral generation | not proposed | nil | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | mechanised method proposed | screeners and crushers were used for segregation and sizing | |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | not proposed | nil | |
| 3m | Total area covered under excavation/pits | 4.70 hect | 3.56 hect | |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.28 | OB and soil excavation details were not recorded by the lessee | |
| 3o | Total area put in use under different heads at the end of year | 7.27 hect | 5.69 hect | |
| 3p | Production of ROM mineral during the last five year period as applicable | 2012-13=60813 2013-14=61635 2014-15=86100 2015-16=86100 2016-17=94500 2017-18=0 2018-19=69885 2019-20=69555 | 2012-13=6520 2013-14=18285 2014-15=0 2015-16=6155 2016-17=665 2017-18=0 2018-19=18984 2019-20=26795 | units are in tonnes |

3q General remarks
of inspecting
officers on
method of mining
etc.

mining was
deviated from the
proposal violation
under rule 11(1)
of MCDR 2017 were
issued

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|---|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | proposed | dumps were not maintained, due to less working and generation of waste and soil | |
| 4b | Location of topsoil, OB and mineral reject dumps | waste dump proposed near the quarry-1 in the southern side | dump were not maintained due to less working and less generation of waste | |
| 4c | Number of dumps within lease area and outside of lease area | 2 dumps | NA | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | outside the UPL | outside the UPL | |
| 4e | Number of active and alive dumps. | 2 dumps | NA | |
| 4f | Number of dead dumps. | not proposed | nil | |
| 4g | Number of dumps established. | not proposed | 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 proposed | nil | |
| 4j | Number of settling ponds | not proposed | nil | |

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. | full extraction of mineral is proposed | full extraction of mineral not done yet in any part of the ML upto the UPD | |
| 5b | Area under backfilling of mined out area | not proposed | na | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | proposed | generated soil was propsoed to be used in planttaion over the barrier zone | |
| 5d | Total area fully reclaimed and rehabilitated | not proposed | nil | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | no area is fully mature enough for the reclamation and rehabilitation process |

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). | propsoed | not submitted | voilation issued for the same |
| 6b | Area available for rehabilitation (ha) . | not proposed | nil | |
| 6c | afforestation done (ha) . | 0.26 | 0.39 hect over the barrier zone | |
| 6d | No. of saplings planted during the year | 120 nos | 120 nos | |
| 6e | Cumulative no .of plants | 500 nos | 450-500 nos including within and outside the ML | |

6f Any other method not proposed nil
of
rehabilitation

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|-----------------------------|---|-------------------------------------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | grade wise sorting proposed | grade wise sorting is being done by use of screeners and crushers | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | mechanical | mechanical method adopted screeners and crushers | |
| 7c | Different grade of mineral sorted out at mines. | not proposed | nil | |
| 7d | Any beneficiation process at mines . | not proposed | nil | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | screeners were used for segregation |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-----------|--|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | proposed | no soil generated as per proposal | |
| 8b | Concurrent use or storage of topsoil | proposed | generated soil were used in planttaion | |

| | | | | |
|----|---|--------------|---|--------------------|
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | proposed | as per proposal | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | not proposed | no area is mature enough for the activity | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | proposed | as per approved mining plan | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | proposed | as per approved mining plan | |
| 8g | Survival rate | 80% | 60-65% | |
| 8h | Water sprinkling on roads to control airborne dust | proposed | with the use of water tanker | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | | needs improvements |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|-----------|---|---------|
| 9a | Status of submission of Monthly and Annual returns | submitted | AR submitted upto 2020-21 MR submitted upto Oct-21 | |

| | | | | |
|----|---|---------------|---|---|
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | not furnished | geologist and mining engineer not appointed | violation issued under rule 55 of mcdr 2017 |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | furnished | Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 4.680 4.680 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 0.600 0.600 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.000 0.000 0.000 (vi) Other Purpose (PLANTATION) 0.000 0.500 0.500 (vii) Work done under | |
| 9d | Scrutiny of Annual return on afforestation | furnished | 120 nos of plants were planted during the year | |

| | | |
|----|---|--|
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) furnished | <p>Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(LIMESTONE)</p> <p>Grades Opening stock at mine head (in tonne)</p> <p>Production (in tonne)</p> <p>Despatches from mine head (in tonne)</p> <p>Closing stock at mine head (in tonne)</p> <p>Ex-mine price (in . Per Tonne)</p> <p>(a) LD 0.000 0.000 0.000 0.000 0.00</p> <p>(b) SMS 0.000 0.000 0.000 0.000 0.00</p> <p>(c) Chemical 4482.285 26795.000 20986.150 10291.135 331.48</p> <p>(d) BF 0.000 0.000 0.000 0.000 0.00</p> <p>(e) Cement 0.000 0.000 0.000 0.000 0.00</p> |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore furnished | <p>Category Opening stock (in tonne)</p> <p>Production (in tonne)</p> <p>Closing stock (in tonne)</p> <p>(a) Open Cast Workings 0.000 26795.000 0.000</p> <p>(b) Underground Workings 0.000 0.000 0.000</p> <p>(c) Dump Workings 0.000 0.000 0.000</p> |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost furnished | <p>ex mine price 331.48 INR</p> <p>cost of production 279.00 INR</p> |

| | | | |
|----|--|-----------|--|
| 9h | Scrutiny of Annual return on fixed assets | - | details of fixed asset not furnished |
| 9k | Scrutiny of Annual return on mining machineries | furnished | machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) ELEC. MOTOR 25.000 HP 1 Electrical Opencast |

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 :

(DEEPAK SHARMA)

Indian Bureau of Mines