

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/KTN/LAT-15

Mine code : 07MPR18027

- (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 : 15-DEC-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MOHLA**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : JABALPUR
Village : MOHLA
Taluka : SIHORA/PAUDA
Post office : BARGI
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 08-APR-97
- (h) Weekly day of rest : WED
2. Address for : SHRI SHARDA PRASAD JAISWAL
correspondance : P.O. JAITWARA, DIST. SATNA (M.P.) 485221
3. (a) Lease Number : MPR1569
- (b) Lease area : 5.9
- (c) Period of lease : 20
- (d) Date of Expiry : 26-FEB-17
4. Mineral worked : LATERITE Main
BAUXITE Associated
FIRECLAY Associated

5. Name and Address of the

Lessee : SHARDA PRASAD JAISWAL
 KAWASJEE WARD, LAKHERA P.O.
 A.C.C. KATNI MADHYA
 PRADESH
 Phone:N. A.
 FAX :N. A.

Owner : SHARDA PRASAD JAISWAL
 KAWASJEE WARD, LAKHERA P.O.
 A.C.C. KATNI MADHYA
 PRADESH
 Phone: N. A.
 FAX : N. A.

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|-------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 06-JUN-03 |
| Plan/Scheme of Mining | | Mining Scheme rule 12 MCDR1988 | 29-JUL-09 |
| | | Mining Scheme rule 12 MCDR1988 | 05-MAY-15 |
| | | MP modif under 17(3) MCR 2016 | 16-AUG-17 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|--|--|
| 1a | Backlog of previous year | THERE IS NO BACKLOG OF PREVIOUS YEAR | THERE IS NO BACKLOG OF PREVIOUS YEAR | |
| 1b | Exploration over lease area for geological axis 1 or 2 | WHOLE ML AREA IS EXPLORED UPTO G1 LEVEL | WHOLE ML AREA IS EXPLORED UPTO G1 LEVEL | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | LESSEE HIMSELF EXPENDITURE NOT MENTIONED | EXPENDITURE NOT AVAILABLE | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | WHOLE ML AREA IS EXPLORED UPTO G1 LEVEL | WHOLE ML AREA IS EXPLORED UPTO G1 LEVEL | |
| 1e | Balance reserve as on 01/04/20 | AS ON 16.08.2021 111-363610 211-803213 | AS ON 25/02/2022 111-456312 211-877009 | THE RESERVE INCREASED DUE TO EXPLORATION DONE BY THE LESSEE IN THE PREVIOUS YEAR DETAILS AVAILABLE IN THE MINE FILE REGARDING DRILLING, SAMPLING AND LOGGING |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | ML AREA IS PART OF MAHAKAUSHAL REGION IN THE KATNI DISTRICT, BAUXITE OF THE ML AREA ASSEMBLAGE OF LATERITE ALSO |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|--|---|---------|
| 2a | Location of development w.r.t.lease area | IT WAS PROPOSED TO WORK IN THE CENTRAL PART OF THE ML AREA | WORKING WAS DONE IN THE CENTRAL PART OF THE ML AREA | |

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|----|---|----------|--|--|
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | PROPOSED | SEPARATE BENCHES ARE MAINTAINED IN TEH SOIL AND IN BAUXITE MINERAL | |
| 2c | Stripping ratio or ore to OB ratio | 1:0.12 | 1:0.11 | |
| 2d | Quantity of topsoil generation in m3 | NIL | NIL | NO SOIL GENERATED AS THE WORKING WAS DONE DEEPIING THE PIT UPTO UPD |
| 2e | Quantity of overburden generation in m3 | NIL | NIL | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | WORKING WAS DONE IN THE CENTRAL PART OF THE OF ML AS PER PROPOSAL DEEPIING THE PIT |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|-----------------|
| 3a | Number of pit proposed for production | SINGLE PIT | SINGLE PIT | |
| 3b | Quantity of ROM mineral production proposed | 79988 | 55000 | UNITS IN TONNES |
| 3c | Recovery of sailable/usable mineral from ROM production | 70 % CEMENT GRADE, 20% REFRACTORY GRADE AND 10 % METAL GRADE | AS THE MINE WAS WORKIGN IN TOWARDS UPD WASTE NOT GENERATED 70 % CEMENT GRADE, 20% REFRACTORY GRADE AND 10 % METAL GRADE RECOVERY PERCENTAGE VARIES +- 5 % | |
| 3d | Quantity of mineral reject generation | NOT PROPOSED | WORKING WAS DONE IN MINERALISATION ZONE NO MINERAL REJECT GENERATED DURING THE YEAR | |

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|----|--|----------------------------|---|
| 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 | MECHANICAL METHOD PROPOSED | SCREENERS WERE INSTALLED IN THE ML AREA FOR SEGRAGATION |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | NOT PROPOSED | NIL |
| 3j | Provision of drilling and blasting in mineral benches | NOT PROPOSED | SOFT STRATA EASILY REMOVABLE WITH JACK HAMMER AND EXCAVATOR |
| 3k | Provision of mining machineries in mineral benches | PROPOSED | HEMM IS BEING USED FOR EXCAVATION AND TRANSPORTAION AND SEGRAGATION |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | SUITABLE | AS PER APPROVED MINING PLAN OPENCAST MECHANISED METHOD SUITABLE |
| 3m | Total area covered under excavation/pits | 1.85 HECT | 1.82 HECT |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.12 | 1:0.11 |
| 3o | Total area put in use under different heads at the end of year | 5.8658 HECT | 3.2195 HECT |

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|----|--|--|---|---|
| 3p | Production of ROM mineral during the last five year period as applicable | 2017-18=52698 2018-19=79977 2019-20=80000 2020-21=79988 | 2017-18=3000 2018-19=20000 2019-20=68120 2020-21=55000 | |
| 3q | General remarks of inspecting officers on method of mining etc. | | | WORKING WAS BEING DONE IN TEH SAID LOCATION WITH SLOWERE EXCAVATION AND PRODUCTION RATE DUE TO WATER CHANNEL ENCOUNTER IN THE DEEP OF OF THE PIT WHICH CRAETES DFFICULTY IN MACHINE MOVEMENT AND EXCAVATION |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|--|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | PROPOSED | AS PER PROPOSAL SEPARATE DUMING FOR WASTE AND MINERAL IS LOACTED IN THE ML | |
| 4b | Location of topsoil, OB and mineral reject dumps | DUMP LOCATION WERE PROPOSED IN THE EXTREME WESTERN SIDE OF THE ML AREA | DUMPS ARE LOCATED IN THE WESTERN PART OF THE ML AREA | |
| 4c | Number of dumps within lease area and outside of lease area | TWO DUMPS | TWO DUMPS ARE LOCATED IN THE ML AREA ONE IN UPPER NORTH-WESTERN SIDE AND SECOND ONE IN THE SOURTHERN-WESTERN SODE OF THE ML AREA | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | WITHIN THE ML AREA | AS THE WHOLE ML AREA IS MINERALISED DUMPS ARE WITHIN UPL | |
| 4e | Number of active and alive dumps. | TWO DUMPS | TWO DUMPS | |
| 4f | Number of dead dumps. | NOT PROPOSED | NIL | |
| 4g | Number of dumps established. | NOT PROPOSED | NIL | |

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|----|--|--------------|---|---|
| 4h | Whether Retaining wall or garland drain all along dumps are there. | PROPOSED | IN THE PERIFERY OF DUMPS GARLAND DRAIN ARE PREPARED | |
| 4i | Length of Retaining wall or garland drain all along dumps | 200X1 | 250X1.5 | |
| 4j | Number of settling ponds | NOT PROPOSED | NIL | |
| 4k | Specific comments of inspecting officer on waste dump management | | | WASTE IS DUMPED SEPARATELY WITHIN THE ML AREA |

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 THE MINERAL IS PROPOSED | FULL EXTRACTION OF THE MINERAL IS UNDER PROGRES | |
| 5b | Area under backfilling of mined out area | NOT PROPOSED | WHOLE ML IS MINERALISED AND FULL EXTRACTION OF MINERAL UNDER PROGRESS | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | NOT PROPOSED | NIL SOIL WAS NOT GENERATED DURING THE YEAR | |
| 5d | Total area fully reclaimed and rehabilitated | NOT PROPOSED | WHOLE ML IS MINERALISED AND FULL EXTRACTION OF MINERAL UNDER PROGRESS | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | AREA IS NOT MATURE ENOUGH FOR THE 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). | PROPOSED | SUBMITTED | |
| 6b | Area available for rehabilitation (ha) . | NIL | NIL | |
| 6c | afforestation done (ha). | 2.5 HECT | 2.36 HECT | |
| 6d | No. of saplings planted during the year | 200 NOS | 115 NOS | |
| 6e | Cumulative no .of plants | 1500 NOS | 1250 NOS | |
| 6f | Any other method of rehabilitation | NOT PROPOSED | NIL | |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|----------------------|---------------------------|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | ROM SORTING PROPOSED | ROM SORTING WAS PROPOSED | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | MECHANICAL | MECHANICAL METHOD ADOPTED | |
| 7c | Different grade of mineral sorted out at mines. | NOT PROPOSED | NIL | |
| 7d | Any beneficiation process at mines . | NOT PROPOSED | NIL | |

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| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | ONLY SCREENING WAS DONE IN THE ML AREA |
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Environment:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--------------|---|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | NOT PROPOSED | IN THE REPORTING YEAR THE WORKING WAS DEEPING SO SOIL WAS NOT GENERATED | |
| 8b | Concurrent use or storage of topsoil | NOT PROPOSED | SOIL NOT GENERATED DURING THE YEAR | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | PROPOSED | WASTE IS DUMPED SEPARATELY | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | NOT PROPOSED | NO AREA MATURE ENOUGH FOR THE PROCESS | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | PROPOSED | AS PER THE MINING PLAN | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | PROPOSED | AS PER APPROVED MINING PLAN | |

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|----|--|----------|------------------------------|--------------------|
| 8g | Survival rate | 80% | 85% | |
| 8h | Water sprinkling on roads to control airborne dust | PROPOSED | WATER TANKESR ARE BEING USED | |
| 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 AND MR SUBMITTED UPTO FEB 22 | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | FURNISHED | Mining Engineer in charge DHARMENDRA KAHAR Geologist in charge VIDHYA SAGAR SAHU | |

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|----|---|-----------|---|
| 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) |
| | | | <p>Under</p> <p>forest Outside forest Total</p> <p>(i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.380 0.380</p> <p>(ii) Covered under current (O/C) Workings 0.000 2.932 2.932</p> <p>(iii) Reclaimed/Rehabilitated 0.000 0.000 0.000</p> <p>(iv) Used for waste disposal 0.000 0.471 0.471</p> <p>(v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.139 0.139</p> <p>(vi) Other Purpose (Green belt)</p> <p>0.000 0.000 0.0</p> |
| 9d | Scrutiny of Annual return on afforestation | FURNISHED | <p>Number of trees planted during the year</p> <p>(a) Within lease area (b) Outside lease area</p> <p>(i) Number of trees planted during the year 115 0</p> <p>(ii) Survival rate in percentage 70.00 0</p> |

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|----|---|-----------|--|
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | FURNISHED | Mineral Rejects for Bauxite 4.2 Opencast 4.2(B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 0 b. Grade 0 4.3 Underground 4.3(i) Mineral Rejects generated with grades (tonnes) a. Quantity 0 b. Grade 0 |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | FURNISHED | (a) Open Cast Workings 0.000 55000.000 0.000 (b) Underground Workings 0.000 0.000 0.000 (c) Dump Workings 0.000 0.000 0.000 |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | FURNISHED | Grades (% of Al ₂ O ₃ content) Average Grade Opening stock at mine head (in tonne) Production (in tonne) Despatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in Per Tonne) (A) For use in alumina and aluminium extraction (a) Below 40% Al ₂ O ₃ 0.000 0.000 0.000 0.000 0.00 (b) 40% to below 45% Al ₂ O ₃ 0.000 0.000 0.000 0.000 0.00 (c) 45% to below 50% Al ₂ O ₃ 0.000 0.000 0.000 0.000 0.00 (d) 50% to below 55% Al ₂ O ₃ 0.000 0.000 0.000 0.000 0.00 (e) 55% to below 60% |

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|----|---|-----------|---|
| 9h | Scrutiny of Annual return on fixed assets | FURNISHED | Value of Fixed Assets (in) 1873819 (in respect of the mine, beneficiation plant, mine work-shop, power and water installation) |
| 9k | Scrutiny of Annual return on mining machineries | FURNISHED | Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) FRONT END LOADER 1.200 CUM 2 Non Electrical Opencast DUMPER 10.000 TONNE 1 Non Electrical Opencast DUMPER 16.000 TONNE 2 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast PUMPS (NON-ELEC.) 0.000 L/MN 1 Non 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 |
| MCDR17 | Rule 11(1) | 20-DEC-21 | | | |
| MCDR17 | Rule 26(2) | 20-DEC-21 | | | |
| MCDR17 | Rule 33 | 20-DEC-21 | | | |
| MCDR17 | Rule 44 | 20-DEC-21 | | | |

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines