

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/JBP/MANG-13

Mine code : 40MPR18005

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Vijay Singh Chouhal Geologist, Subodh Jain Representa
Official with
Designation
- (iv) Date of Inspection : 19-JUL-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MANSAKRA (5.00 HA)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : JABALPUR
Village :
Taluka :
Post office :
Pin Code :
FAX No. : NA
E-mail : NA
Phone : NA
- (f) Police Station : SIHORA
- (g) First opening date : 06-NOV-06
- (h) Weekly day of rest :
2. Address for : SURIYAVANSAM MINING & MINERALS PVT. LTD.
correspondance : 27/2, PATRAKAR COLONY,
INDORE (M.P.)
3. (a) Lease Number : MPR2311
(b) Lease area : 5
(c) Period of lease : 20
(d) Date of Expiry : 13-OCT-26
4. Mineral worked : MANGANESE ORE Main
IRON ORE Associated
LATERITE Associated

5. Name and Address of the

Lessee : SURIYAVANSAM MINING & MINERALS PVT. LTD.
 27/2, PATRAKAR COLONY.
 INDORE (M.P.) INDORE MADHYA
 PRADESH
 Phone:NA
 FAX :NA

Owner : SURIYAVANSAM MINING & MINERALS PVT. LTD.
 27/2, PATRAKAR COLONY.
 INDORE (M.P.) INDORE MADHYA
 PRADESH
 Phone: NA
 FAX : NA

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|-------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining | : | Fresh under rule 22 MCR1960 | 01-SEP-06 |
| Plan/Scheme of Mining | : | Mining Scheme rule 12 MCDR1988 | 21-DEC-12 |
| | : | Modif.of approved Mining Plan | 21-DEC-12 |
| | : | Mining Scheme rule 12 MCDR1988 | 08-JUN-16 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---|--|--|
| 1a | Backlog of previous year | EXPLORTAION WAS NOT PROPOSED FOR THE REPORTING YEAR 2020-21 | NO EXPLORTAION WORK CARRIED OUT IN THE RY 2020-21 | |
| 1b | Exploration over lease area for geological axis 1 or 2 | AREA EXPLORED UPTO G2 LEVEL | AREA EXPLORED UPTO G2 LEVEL | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | NO EXPLORTAION WORK CARRIED OUT IN THE RY 2020-21 | NO INFORMATION FURNISHED REGARDING THE EXPLORATION EXPENDITURE AS NO EXLORTAION WORK CARRIED OUT | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | 5.00 HECT | 5.00 HECT TO BE EXPLORED UP TO G1 LEVEL | |
| 1e | Balance reserve as on 01/04/20 | AS ON 01.04.2016 122-842255 MN; 1684110- FE 222-207225 MN; 414450-FE | AS ON 01.04.2021 122-326001 MN; 65200 FE 222-216619 MN; 433239 FE | |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | MINERAL DEPOSITION OF THE AREA BELONGS TO MAHAKAUSHAL FORMATION IN TEH JABALPUR REGION, MN FOUND IS SMALL PATCHES ASSOCIATED WITH IRON ORE (MOSTHLY WEATHERED) |

Development :

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

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| 2a | Location of development w.r.t.lease area | IT WAS PROPOSED TO DO DEVELOPMENT WORK IN TEH CENTRAL PART OF THE LEASE AREA | DEVELOPMENT WORK WAS CARRIED OUT IN THE CENTRAL PART OF THE LEASE AREA | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | IT WAS PROPOSED TO DEVELOP SEPARATE BENCHES IN THE TOP SOIL IN THE MINERAL BENCHES | SEPARATE BENCHES PREPARED | |
| 2c | Stripping ratio or ore to OB ratio | 1:0.05 | 1:1.12 | |
| 2d | Quantity of topsoil generation in m3 | NIL | NIL | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | WORKING DONE IN THE PROPOSED LOCATION WITH SLOWER RATE |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|----------------------------------|--|---------|
| 3a | Number of pit proposed for production | ONE PIT | ONE PIT | |
| 3b | Quantity of ROM mineral production proposed | Mn-52500 CUM Fe-88440 CUM | Mn-121125 TONNES Fe-211860 TONNES | |
| 3c | Recovery of sailable/usable mineral from ROM production | Fe-50% Mn-25% LATERITE-25% | AS PER PROPOSAL SLIGHT VARIATION IN RECOVERY % | |
| 3d | Quantity of mineral reject generation | NIL | NIL | |

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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 | COMBINED METHOD PROPOSED | MANUAL AND MECHANISED METHOD BOTH ARE ADOPTED |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | NOT PROPOSED | ONLY SCREENING IS BEING USED |
| 3j | Provision of drilling and blasting in mineral benches | PROPOSED | AS AND WHEN REQUIRED ON CONTRACTUAL BASIS |
| 3k | Provision of mining machineries in mineral benches | PROPOSED | HEMM IS PROPOSED TO DEPLOY IN THE MINERAL BENCHES PIT WAS WATER LOGGED DEWATERING WAS IN PROCESS BENCHES WERE NOT VISIBLE DUE TO WATER LOGGED PIT |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | SUITABLE | AS PER APPROVED MINING PLAN |
| 3m | Total area covered under excavation/pits | 4.31 HCET | 4.00 HCET |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.05 | 1:1.2 |

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|----|--|---|---|---|
| 3o | Total area put in use under different heads at the end of year | 4.81 HECT | 4.00 HECT | |
| 3p | Production of ROM mineral during the last five year period as applicable | 2016-17= 264396 FE, 132198 MN 2017-18=238032 FE, 119016 MN 2018-19=248490 FE, 124245 MN 2019-20=266490 FE, 133470 MN 2020-21=265320 FE, 132660 MN | 2016-17=NIL 2017-18=118931 MN, 237863 FE 2018-19=124152 MN, 248307 FE 2019-20=128375 MN, 254752 FE 2020-21=121125 MN, 211860 FE | |
| 3q | General remarks of inspecting officers on method of mining etc. | | | HEMM IS BEING PROPOSED TO USED IN TEH MINERAL BENCHES, DRILLING AND BLASTING IS PRPOSED IN THE ML, PIT WAS WATER LOGGED AT THE TIME OF INSPECTION. DEPTH AND BECHES NOT QUANTIFIABLE. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|---|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | PROPOSED | SEPARATE DUMPING WAS DONE IN THE NEAR BY PVT LAND OBTAINED | |
| 4b | Location of topsoil, OB and mineral reject dumps | IN THE NORTH PORTION OF THE ML | IN THE EXTREME NORTH OF THE ML | |
| 4c | Number of dumps within lease area and outside of lease area | TWO DUMPS WITHIN THE LEASE AREA ONE OUTSIDE THE LEASE AREA | TWO MINERAL DUMPS IN THE LEASE AREA ONE WASTE DUMP OUTSIDE THE LEASE AREA | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | OUTSIDE THE UPL | OUTSIDE THE UPL | |

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|----|--|---|---------------------------------|--|
| 4e | Number of active and alive dumps. | TWO ACTIVE MINERAL DUMPS IN THE ML AREA | TWO ACTIVE DUMPS IN THE ML AREA | |
| 4f | Number of dead dumps. | NOT PROPOSED | NONE | |
| 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 | |
| 4k | Specific comments of inspecting officer on waste dump management | | | ONE WASTE DUMP OUTSIDE THE ML AREA IN THE PVT LAND OWNED BY LESSEE |

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 MINERAL NOT DONE YET | |
| 5b | Area under backfilling of mined out area | NOT PROPOSED | NIL | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | IN PLANTTAION AS AND WHEN GENERATED | NIL NO TOP SOIL WAS GENERATED IN THE RY | |
| 5d | Total area fully reclaimed and rehabilitated | NOT PROPOSED | NIL | |

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| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | FULL EXTRACTION OF THE MINERAL NOT DONE YET NO BACKFILLING DONE |
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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). | PROPOSED | NOT SUBMITTED | |
| 6b | Area available for rehabilitation (ha) . | NOT PROPOSED | NIL | |
| 6c | afforestation done (ha). | AROUND THE ML BOUNDARY .25 HECT | AROUND THE ML BOUNDARY .35 HECT | |
| 6d | No. of saplings planted during the year | 500 NOS | 350 NOS | |
| 6e | Cumulative no .of plants | 1500 NOS | 350 NOS | |
| 6f | Any other method of rehabilitation | NOT PROPOSED | NIL | |
| 6g | Cost incurred on watch and care during the year | NOT MENTIONED | NIL | |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | PMCP REPORT NOT SUBMITTED VIOLATION ISSUED |

Mineral Conservation:

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

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|----|--|--|---|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | ROM GRADE WISE SORTING WAS PROPOSED | ROM IS BEING SORTED IN THE LEASE AREA BEFORE DISPATCH | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | MANUAL METHOD WITH SCREENING IF REQUIRED | MANUAL METHOD ADOPTED WITH SCREENING | |
| 7d | Any beneficiation process at mines | NOT PROPOSED | NIL | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | ROM IS BEING SORTED IN THE LEASE AREA BY MANUAL METHOD AND SCREENING |

Environment:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|-----------|---|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | PROPOSED | AS AND WHEN GENERATED | |
| 8b | Concurrent use or storage of topsoil | PROPOSED | THERE IS LESS AMOUNT OF TOP SOIL IN THE ML, WHENEVER GENERATED ITS USED IN PLANTATION | |
| 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 | PROPOSED | AFTER FULL EXTRACTION OF MINERAL | |

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|----|---|----------|----------------------------------|--------------------|
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | PROPOSED | AFTER FULL EXTRACTION OF MINERAL | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | PROPOSED | AS PER PROPOSAL | |
| 8g | Survival rate | 90 % | 60-65 % | |
| 8h | Water sprinkling on roads to control airborne dust | PROPOSED | BY 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 | SUBMITTED | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | SUBMITTED | VIJAY SINGH CHOUHAN GEOLOGIST | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | FURNISHED | FURNISHED | |

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|----|--|-----------|-----------|
| 9d | Scrutiny of Annual return on afforestation | FURNISHED | FURNISHED |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | FURNISHED | FURNISHED |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | FURNISHED | FURNISHED |
| 9h | Scrutiny of Annual return on fixed assets | FURNISHED | FURNISHED |
| 9k | Scrutiny of Annual return on mining machineries | FURNISHED | FURNISHED |

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 |

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines