

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

Review and updation of Mining Plan REPORT

Nagpur regional office

Mine file No : MP/JHB/RPT-3/NGP

Mine code : 46MPR19002

- (i) Name of the Inspecting : **G005**) **SANJAY M. GIRHE**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 20-JAN-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GWALI (9.12H)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : JHABUA
Village : KACHALDARA
Taluka : MEGHNAGAR
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 27-APR-99
- (h) Weekly day of rest :
2. Address for : M/S M.P. STATE MINING CORPN. LTD.,
correspondance : PARYAVAS BHAVAN, 2ND FLOOR, JAIL ROAD,
ARERA HILLS, BHOPAL.
3. (a) Lease Number : MPR2015
- (b) Lease area : 9.12
- (c) Period of lease : 20
- (d) Date of Expiry : 07-DEC-18
4. Mineral worked : PHOSPHORITE Main

5. Name and Address of the

Lessee : M/S M. P. STATE MINING CORPN. LTD.
 PARYAWAS BHAVAN, BLOCK NO.
 1, 2ND FLOOR, JAIL ROAD,
 BHOPAL (MP) BALAGHAT MADHYA
 PRADESH
 Phone:
 FAX :

Owner : M/s Madhya Pradesh State Mining Corporation Ltd.
 Paryawas Bhawan, 2nd, Floor
 (A) Jail Road, Arera Hills,
 Bhopal (MP) BHOPAL MADHYA
 PRADESH
 Phone: 0775- 763391-93
 FAX : 0775-763394

Agent : Shri A.P.Sahu
 Paryavas Bhavan, 2nd
 Floor,Block 1,Jail
 Road,Arera Hills,Bhopal
 BHOPAL MADHYA PRADESH
 Phone: 0755- 763391,92
 FAX : 0755- 763394

Mining Engineer

Name : Shri P.S.Yadav,Full Time
 Qualification : B.E.Mining
 Appointment/ : 01-JAN-74
 Termination date

Manager

Name : SHRI P.S. YADAV
 Qualification : B.E. MINING
 Appointment/ :
 Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 25-MAR-04
 Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 13-JUN-13

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---|---|--|
| 1a | Backlog of previous year | Not Proposed | Nil | Previous Scheme of Mining was approved on 06.05.2016 for the period 2015-16 to 2017-18 and after that no further document submitted for approval |
| 1b | Exploration over lease area for geological axis 1 or 2 | Not Proposed | No exploration done in the approved Scheme of Mining period | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | Not Proposed | Nil | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Not Proposed | No exploration carried out during approved SOM period | Entire mining lease area of 9.12 Ha is balance to explore for geological axis-1 |
| 1e | Balance reserve as on 01/04/20 | Reserves in Tonnes Probable (121)- 7,01,996 Resources in tonnes Pre-Feasibility(21/222): 10,71,740 Reserves/resources position as per approved SOM dtd 25.06.2016 | Reserves in Tonnes Proved (111) - 5,27,512 Probable (121/122)- 10,28,710 Resources in tonnes Pre-Feasibility(221/222): 19,39,803 Reserves/resources position as 01.04.2020 as per draft ROMP submitted | No production carried out during approved plan period. Reason for non-operation of mine is mentioned that due poor demand of ore in the market. |

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| 1f | General remarks of inspecting officers on geology, exploration etc | NA | NA | Elongated pits exists in the lease area from north to south. Previously exploration was carried out by GSI in the area & further detailed exploration is required for re-estimation of R&R as per MEMC Rules, 2015 |
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Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--------------|-------------|--|
| 2a | Location of development w.r.t.lease area | Not Proposed | Nil | Previous Scheme of Mining was approved on 06.05.2016 for the period 2015-16 to 2017-18 and after that no further document submitted for approval |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Not Proposed | Nil | |
| 2c | Stripping ratio or ore to OB ratio | Not Proposed | Nil | |
| 2d | Quantity of topsoil generation in m3 | Not Proposed | Nil | Previous Scheme of Mining was approved on 06.05.2016 for the period 2015-16 to 2017-18 and after that no further document submitted for approval |
| 2e | Quantity of overburden generation in m3 | Not Proposed | Nil | |

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| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | NA | NA | Previous Scheme of Mining was approved on 06.05.2016 for the period 2015-16 to 2017-18 and after that no further document submitted for approval. Year 2018-19 to 2020-21 are the lapse period. |
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Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--------------|-------------|---|
| 3a | Number of pit proposed for production | Not Proposed | Nil | Previous Scheme of Mining was approved on 06.05.2016 for the period 2015-16 to 2017-18 and after that no further document submitted for approval. Year 2018-19 to 2020-21 are the lapse period. |
| 3b | Quantity of ROM mineral production proposed | Not Proposed | Nil | |
| 3c | Recovery of sailable/usable mineral from ROM production | Not Proposed | Nil | |
| 3d | Quantity of mineral reject generation | Not Proposed | Nil | |
| 3e | Grade of mineral rejects generation and threshold value declared. | Not Proposed | Nil | |
| 3f | Quantity of sub grade mineral generation. | Not Proposed | Nil | |

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| 3g | Grade of sub grade mineral generation | Not Proposed | Nil | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Not Proposed | Nil | As per previous approved SOM, manual open cast method of mining operations were proposed. |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Not Proposed | Nil | Sizing of ore by crushing plant were being carried out previously as discussed in approved SOM |
| 3j | Provision of drilling and blasting in mineral benches | Not Proposed | Nil | |
| 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 | Not Proposed | Nil | Benches in OB and mineral/ore found suitably |
| 3m | Total area covered under excavation/pits | Not Proposed | Nil | As on date total 1.76 Ha is covered under excavation/pits as mentioned in approved SOM |
| 3n | Ore to OB ratio for the pit/mine during the year. | Not Proposed | Nil | |
| 3o | Total area put in use under different heads at the end of year | Not Proposed | Nil | Excavation/pit area-1.76Ha, Storage of top soil/OB-0.09Ha, Mines haul road-0.55Ha as per approved SOM details |

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| 3p | Production of ROM mineral during the last five year period as applicable | 2015-16-: 40575.00 MT 2016-17-: 40221.82 MT 2017-18-: 40300.00 MT 2018-19-: 40690.00 MT 2019-20-: Not Proposed | 2015-16-: Nil 2016-17-: Nil 2017-18-: Nil 2018-19-: Nil 2019-20-: Not Proposed | Previous Scheme of Mining was approved on 06.05.2016 for the period 2015-16 to 2017-18 and after that no further document submitted for approval. Year 2018-19 to 2020-21 are the lapse period. Reason for non operation of mine is mentioned that due to poor demand of ore in the market. |
| 3q | General remarks of inspecting officers on method of mining etc. | NA | NA | Previous Scheme of Mining was approved on 06.05.2016 for the period 2015-16 to 2017-18 and after that no further document submitted for approval. Year 2018-19 to 2020-21 are the lapse period. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--------------|--|---|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Not Proposed | Nil | Previous Scheme of Mining was approved on 06.05.2016 for the period 2015-16 to 2017-18 and after that no further document submitted for approval. Year 2018-19 to 2020-21 are the lapse period. |
| 4b | Location of topsoil, OB and mineral reject dumps | Not Proposed | Mineral rejects/mine waste stacked at earmarked locations. | |

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| 4c | Number of dumps within lease area and outside of lease area | Not Proposed | There were 02 nos of mineral rekjects/waste dumps in the lease area | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | There were 02 nos of mineral rekjects/waste dumps in the lease area | There were 02 nos of mineral rekjects/waste dumps in the lease area | |
| 4e | Number of active and alive dumps. | Not Proposed | No active dumps in the lease area encountered | |
| 4f | Number of dead dumps. | Not Proposed | No dead dumps observed | |
| 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 | NA | NA | Previously the lessee had categorically dumped the ore ranging from 10-12% P2O5 as waste material. As per the thrshold value >5% P2O5 is the ore and proposal of recovering the ore from these dumps were given in draft ROMP |

Solid Waste Management - Backfilling:

| Sl.No. | Item | Propasals | Actual work | Remarks |
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| 5a | Status of part or full extraction of mineral from mined out area before starting backfilling. | Not Proposed | None of the pits area has been fully mineral/ore exhausted so far. | |
| 5b | Area under backfilling of mined out area | Not Proposed | None of the lease area backfilled so far | Scope of backfilling doesnot exists as ore are still existing in the pits. |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Not Proposed | Not Done | |
| 5d | Total area fully reclaimed and rehabilitated | Not Proposed | None of the area has been reclaimed & rehabilitated till now | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | NA | NA | In Pit no-2 maximum depth of 12m where ore has been exploited. None of the pits area is ore exhausted hence scope of backfilling & reclamation doesnot exists |

Progressive Mine Clousre Plan:

| Sl.No. | Item | Propasals | Actual work | Remarks |
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| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | To be submitted before 1st July of every year | Not submitted | No mining operation were carried out during the year 2019-20. Previous Scheme of Mining was approved on 06.05.2016 for the period 2015-16 to 2017-18 and after that no further document submitted for approval. Year 2018-19 to 2020-21 are the lapse period. |
| 6b | Area available for rehabilitation (ha) . | Not Proposed | Nil | |
| 6c | afforestation done (ha). | Not Proposed | Nil | |
| 6d | No. of saplings planted during the year | Not Proposed | Nil | |
| 6e | Cumulative no .of plants | NA | Details not provided in approved SOM | |
| 6f | Any other method of rehabilitation | Not Proposed | Nil | |
| 6g | Cost incurred on watch and care during the year | Not Proposed | Nil | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | Not Proposed | Nil | |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | Not Proposed | None of pits area has been backfilled so far. Ore still existing in working pits | |

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| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area | Not Proposed | None of pits area has been backfilled so far. Ore still existing in working pits |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | Not Proposed | None of pits area has been backfilled so far. Ore still existing in working pits |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | Not Proposed | None of pits area has been backfilled so far. Ore still existing in working pits |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | Not Proposed | Nil |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | Not proposed | Nil |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | Not Proposed | Nil |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Not Proposed | Nil |

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|----|---|----|----|---|
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | NA | NA | No mining operation were carried out during the year 2019-20. Previous Scheme of Mining was approved on 06.05.2016 for the period 2015-16 to 2017-18 and after that no further document submitted for approval. Year 2018-19 to 2020-21 are the lapse period. |
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Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--------------|---|---|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Not Proposed | No ROM excavation/production & despatch occurred during the year 2019-20 | No mining operation were carried out during the year 2019-20. Previous Scheme of Mining was approved on 06.05.2016 for the period 2015-16 to 2017-18 and after that no further document submitted for approval. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Not Proposed | Not done | Grade wise sizing & sorting by mechanical crusher and screening was being practised as per previous approved plan details. |
| 7c | Different grade of mineral sorted out at mines. | Not Proposed | No ore production carried out during the year. Hence, no grade wise sorting is done | |
| 7d | Any beneficiation process at mines . | Not Proposed | Nil | No beneficiation process is proposed in the approved document |

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| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | NA | NA | Proposal for optimum conservation of ore up to threshold value of >5% P2O5 was proposed in draft ROMP document. |
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Environment:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--------------|-------------|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Not Proposed | Nil | No mining operation were carried out during the year 2019-20. Previous Scheme of Mining was approved on 06.05.2016 for the period 2015-16 to 2017-18 and after that no further document submitted for approval. Year 2018-19 to 2020-21 are the lapse period. |
| 8b | Concurrent use or storage of topsoil | Not Proposed | Nil | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Not Proposed | Not done | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Not Proposed | Nil | |

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| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Not Proposed | Nil | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | Not Proposed | Nil | During closure/non-operational of mine, no plantation works was carried out. |
| 8g | Survival rate | Not Proposed | NA | |
| 8h | Water sprinkling on roads to control airborne dust | Not Proposed | Nil | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | NA | NA | Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, it was instructed to propose at least 500 to 700 sapling/year in ROMP. |

Compliance of Rule 45:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|--|-------------|--|
| 9a | Status of submission of Monthly and Annual returns | Monthly returns for the year 2019-20 not submitted Annual Return for the year 2019-20 not submitted | Nil | Violations of Rule 45(5) (b) & 45(5) (c) of MCDR, 2017 are being issued. |

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| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Returns not submitted | Nil | Violations of Rule 45(5)(b) & 45(5)(c) of MCDR,2017 are being issued. |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Returns not submitted | Nil | Violations of Rule 45(5)(b) & 45(5)(c) of MCDR,2017 are being issued. |
| 9d | Scrutiny of Annual return on afforestation | Returns not submitted | Nil | Violations of Rule 45(5)(b) & 45(5)(c) of MCDR,2017 are being issued. |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Returns not submitted | Nil | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Returns not submitted | Nil | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Returns not submitted | Nil | |
| 9h | Scrutiny of Annual return on fixed assets | Retrun not submitted | Nil | |
| 9k | Scrutiny of Annual return on mining machineries | Return not submitted | Nil | Violations of Rule 45(5)(b) & 45(5)(c) of MCDR,2017 are being issued. |

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 :**(SANJAY M. GIRHE)**

Indian Bureau of Mines