

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/8335/2023

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 : 02-APR-23
- (v) Prev.inspection date : 20-JAN-21

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

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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
 Paryawas 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

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2022-23 total 21 boreholes were proposed	No exploration was carried as proposed	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out
1b	Exploration over lease area for geological axis 1 or 2	During the year 2022-23 total 21 boreholes were proposed	No exploration was carried as proposed	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out
1c	Exploration Agencies and Expenditure in lakh rupees during the year	During the year 2022-23 total 21 boreholes were proposed	No exploration was carried as proposed	
1d	Balance area to be explored to bring Geological axis in 1 or 2	During the year 2022-23 total 21 boreholes were proposed	G2-0.67 Ha, Area to be explored-7.04Ha, Non mineralised area-1.48Ha	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out
1e	Balance reserve as on 01/04/20	Reserves in Tonnes Probable (121) -701996 Resources in tonnes Pre-Feasibility(21): 1071740 As per approved Scheme of Mining dtd 06.05.2016	Reserves in Tonnes Probable (122) -147084 Resources in tonnes Pre-Feasibility(222): 283340 As per approved Modification in approved Mining Plan dtd 05.07.22	Resources & reserves reassessment were done as per the provisions of MEMC Rules,2015 during approval of Modification in approved Mining Plan.

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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. Phosphorite body in the area is about 700mts length & avg. width of about 30mts.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to worked in Southern part of Pit-2	Very minor working carried out at proposed location	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches proposed in OB and mineral	Working carried out as per the proposals	Bench heinght of 6m in OB and 6m in Rock phophate maintained
2c	Stripping ratio or ore to OB ratio	Proposed as 1:0.159 Tonne/CuM	Acheived as Nil	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated in 2022-23
2d	Quantity of topsoil generation in m3	No Proposals	Nil	Nil

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2e	Quantity of overburden generation in m3	Proposed as 25388 CuM	Nil	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit-2	Minor working carried out in Pit-2	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out
3b	Quantity of ROM mineral production proposed	Proposed as 49769 MT	Acheived as 4500 MT	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out
3c	Recovery of sailable/usable mineral from ROM production	Proposed as 85% of total ROM	Acheived about 85%	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out
3d	Quantity of mineral reject generation	No Proposals	Nil	Nil

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3e	Grade of mineral rejects generation and threshold value declared.	No Proposals		Nil
3f	Quantity of sub grade mineral generation.	No Proposals	Nil	Nil
3g	Grade of sub grade mineral generation	No Proposals	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposals	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed	Not done	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out
3k	Provision of mining machineries in mineral benches	Excavator-0.90 CuM, Dumpers-10Tonner, Atlas Copco-100mm dia, Dozer-200CuM,	Excavator-0.90 CuM, Dumpers-10Tonner, Atlas Copco-100mm dia, Dozer-200CuM,	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 6m in OB and 6m in Rock phosphate proposed	Bench height of 6m in OB and 6m in Rock phosphate maintained	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out

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3m	Total area covered under excavation/pits	Proposed as 1.56 Ha as per MMP approved on 05.07.2022	Actual as 1.56 Ha as per MMP approved on 05.07.2022	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out inside pit
3n	Ore to OB ratio for the pit/mine during the year.	Proposed as 1:0.372 Tonnes/CuM	Achieved Nil	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.
3o	Total area put in use under different heads at the end of year	Area under mining-1.16Ha OB dumps-0.69Ha Roads-0.55Ha As per approved MMP dtd 05.07.2022	Area under mining-1.16Ha OB dumps-0.69Ha Roads-0.55Ha As per approved MMP dtd 05.07.2022	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.
3p	Production of ROM mineral during the last five year period as applicable	2018-19-: 40690.00 MT 2019-20-: Not Proposed 2020-21-: Not Proposed 2021-22-: Not Proposed 2022-23-: 47769 MT	2018-19-: 40690.00 MT 2019-20-: Not Proposed 2020-21-: Not Proposed 2021-22-: Not Proposed 2022-23-: 4500MT	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out during the month of March-23.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dumping proposed at E441063 & N2542499	Not Done	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.
4b	Location of topsoil, OB and mineral reject dumps	Existing OB dumps located at E441091-N2542369 to E441109-N2542112	Existing OB dumps located at E441091-N2542369 to E441109-N2542112	Nil
4c	Number of dumps within lease area and outside of lease area	Total 5 nos of OB dumps in ML area	Total 5 nos of OB dumps in ML area	No OB dumps outside ML area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Total 05 nos of dumps outside UPL	Total 05 nos of dumps outside UPL	Nil
4e	Number of active and alive dumps.	Total 05 nos of active dumps	Total 05 nos of active dumps	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	No Proposals	Nil	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.

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4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed as 183m	Not done	No OB generated during the year. During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.
4i	Length of Retaining wall or garland drain all along dumps	Garland drain of 469m proposed in 2022-23	No done	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.
4j	Number of settling ponds	No Proposals	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	NA	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23. No OB generated during the year 2022-23

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposals	No working pit area matured for backfilling so far	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.

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5b	Area under backfilling of mined out area	NA	NA	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposals	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	NO Proposals	Nil	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.

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).	To be submitted before 1st July of every year	Not Applicable	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. For 2022-23 PMCP report shall be be submitted before due date.
6b	Area available for rehabilitation (ha) .	No Proposals	Nil	Nil

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6c	afforestation done (ha).	300 Saplings Proposed	About 200 saplings were planted in 2022-23	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.
6d	No. of saplings planted during the year	300 Saplings Proposed	About 200 saplings were planted in 2022-23	Nil
6e	Cumulative no .of plants	NA	NA	No details provided in approved document
6f	Any other method of rehabilitation	No Proposals	Nil	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out. No OB generated during the year 2022-23.
6g	Cost incurred on watch and care during the year	No Proposals	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposals	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposals	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposals	Nil	Nil

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6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposals	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposals	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposals	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposals	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposals	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Yes,Compliances of environmental monitoring is being carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out during the month of March-23.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	49769 MT proposed as total ROM production for despatch. Grade wise sorting proposed within lease area	4500 MT ROM production acheived for dispatches.	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out during the month of March-23.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manula	Nil
7c	Different grade of mineral sorted out at mines.	Grades between 5% P205 to 12% P205 and >12% P205	Grades between 5% P205 to 12% P205 and >12% P205	Nil
7d	Any beneficiation process at mines	No Proposals	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out during the month of March-23.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposals	Nil	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out during the month of March-23.
8b	Concurrent use or storage of topsoil	No Proposals	Nil	Nil

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Not done	During the year 2022-23 no overburden generated as during the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out during the month of March-23.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	300 saplings proposed to be planted in 2022-23	About 200 saplings planted	Nil
8g	Survival rate	Proposed as 80%	Achieved as 70%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	

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8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	gg	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 400-500 sapling/year & accordingly proposals were given in ROMP for the year 2019-20 to 2022-23
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. submitted upto- April- 2022 A.R. submitted for the year 2021-22	Annual Return for the year 2021-22 submitted within time limit.	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out during the month of March-23.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Shri Sushil Charpe, Mining Engineer & Shri Sushant Nikam, Geologist were appointed & were present during mine inspection	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out during the month of March-23.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Working pits-1.76Ha, OB dumps-0.090Ha, Infrastructure-0.55Ha, Other-0.10Ha Details as per Annual Return for the year 2021-22	Nil

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9d	Scrutiny of Annual return on afforestation	Given	25 Nos saplings planted within ML area	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out during the month of March-23.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not Given	Nil	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out during the month of March-23.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Not Given	Nil	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out during the month of March-23.
9h	Scrutiny of Annual return on fixed assets	Not Given	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Not Given	Nil	During the year mine was mostly non-operational and in last month of financial year 2022-23 meager production of Rock Phosphate carried out during the month of March-23.

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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 :**(SANJAY M. GIRHE)**

Indian Bureau of Mines