

I/30733/2024

Review and updation of Mining Plan REPORT

Nagpur regional office

Mine file No : MP/JHB/RPT- 1/NGP

Mine code : 46MPR19001

- (i) Name of the Inspecting : S025 ) IBRAHIM SHARIEF  
Officer and ID No.
- (ii) Designation : Deputy Controller of Mines
- (iii) Accompanying mine :  
Official with  
Designation Shri Vivek P Navare, QP, Shri P Doki, Lessee  
representative , Shri A Nigam. Geologist
- (iv) Date of Inspection : 19-JAN-23
- (v) Prev.inspection date : 28-FEB-21

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KACHALDARA
- (b) Registration NO. :
- (c) Category : A MECHANISED MINE
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : JHABUA  
Village : KACHALDARA  
Taluka : MEGH NAGAR  
Post office : KACHALDARA  
Pin Code : 457779  
FAX No. : 07390- 84453  
E-mail :  
Phone : 07390- 84453, 84403
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest : MON
2. Address for : JHABUA ROCK PHOSPHATE MINE,  
correspondance THE M.P. STATE MINING CORPN. LTD., MEGHNAGAR,  
DISTT. JHABUA (M.P) 457779.
3. (a) Lease Number : MPR2056
- (b) Lease area : 37.70
- (c) Period of lease : 50
- (d) Date of Expiry : 08-MAR-2059
4. Mineral worked : ROCK PHOSPHATE 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 : Dr. Warad Murti Mishra  
 MPSC, AREA HILLS, JAIL  
 ROAD BHOPAL MADHYA  
 PRADESH  
 Phone:  
 FAX :

Agent : Shri Ashish Bahadur  
 MPSC, AREA HILLS, JAIL  
 ROAD BHOPAL MADHYA  
 PRADESH  
 Phone:  
 FAX :

## Mining Engineer

Name : Shri Sushil Charpe, Full  
 Qualification : TimeB.E.Mining  
 Appointment/ :  
 Termination date

6. Date of approval of Mining  
Plan/Scheme of Mining

: JHB/RockPhosphate/M	
PLN-338/NGP Fresh Mining Plan	23-MAR-2009
under rule 22 MCR 1960	
Mining Scheme rule 12 MCDR1988	11-JUN-13
MP review under 17(1) MCR 2016	
Review Of Mining Plan under	25-MAR-21
17(1) MCR 2016	

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## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	78 Bore holes- 2021-22 & 62 BH's in 2022-23	28 BHs drilled	Violation was pointed out
1b	Exploration over lease area for geological axis 1 or 2	Area to be explored I G1 scale	Exploration done in the plan period: G1- 13.93 ha, G2- 15.09 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	Lessee.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire Area to be explored I G1 scale	G1-13.93 ha, G2- 15.09 ha.	Elongated pits exists in the in lease from north to south of the lease. Need of exploration is evident in the lease area due to variation in the grade of Phosphate ore in the mining.
1e	Balance reserve as on 01/04/20		Reserves in Million Tonnes Proved(111) - 2.961 Resources in Million Tonnes Feasibility(221): 0.509 Reserves/resources as on 02.02.2023	

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1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	GSI had carried out the regional exploration covering the lease area also. Subsequently lessee has carried out exploration based on above two , reserves & resources were estimated
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**Development :**

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 2542120 to 2541650 & E 441050 to 441200	Development is carried out as proposed	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, benches for OB and Minerals are to be maintained	Yes, benches for OB and Minerals are maintained	
2c	Stripping ratio or ore to OB ratio	Not Proposed	Nil	
2d	Quantity of topsoil generation in m3	Not Proposed	Nil	
2e	Quantity of overburden generation in m3	16945 T Insitu and 130013 T from Dump	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	Development is carried out as proposed

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**Exploitation:**


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Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits	Two pits	.
3b	Quantity of ROM mineral production proposed	165340	24914	
3c	Recovery of sailable/usable mineral from ROM production	Not 85%	100%	
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	
3g	Grade of sub grade mineral generation	Not Proposed	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Mechanized method adopted for segregation from ROM	Mechanized method adopted for segregation from ROM.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Sizing of ore by crushing plant	
3j	Provision of drilling and blasting in mineral benches	Deep Hole drilling and blasting is Proposed	Deep Hole drilling and blasting is being carried out	
3k	Provision of mining machineries in mineral benches	BACK HOE, 0.90 cum-2 No. FRONT END LOADER-1.5 cum- 1 No. BLAST HOST DRILL- 110 mm-1 No. Dumper- 16 Tonnes-4 No.		

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 meter bench height is proposed	Yes Suitable	
3m	Total area covered under excavation/pits	17.95 Ha	Total area covered under excavation pits as on date is about 16.95 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:5.66	1:1.1	Most of the lease area is devoid of OB. The material below 5% P205 was considered as OB/waste material
3o	Total area put in use under different heads at the end of year	Not Proposed	Pits-16.95Ha Waste dump-9.30Ha Mineral Storage-1.53Ha Infrastructure-0.180Ha Road-0.80Ha	
3p	Production of ROM mineral during the last five year period as applicable	2018-19-: Not Proposed 2019-20-: Not Proposed 2020-21-:24,202 2021-22-:2,26,035 MT	2018-19-: Nil 2019-20-: Nil 2020-21-: Nil 2021-22-: 24,914 MT Nil	
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	Mining operations are being carried out by mechanized means using HEMM with Deep hole drilling and Blasting. Deviation in pits development is noticed accordingly violation was pointed out.

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## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes separate dumps for OB and Mineral is proposed	Separate dumping of mine waste being maintained.	
4b	Location of topsoil, OB and mineral reject dumps	N2541720-2541870 & E 440920-441050	Mineral reject/mine waste material being stacked/dumped at maintained in earmarked locations in lease area.	
4c	Number of dumps within lease area and outside of lease area	There are 06 numbers of mineral rejects/waste dumps in lease area	There are 06 numbers of mineral rejects/waste dumps in lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	06 numbers of mineral rejects/waste dumps outside UPL	06 numbers of mineral rejects/waste dumps outside UPL	
4e	Number of active and alive dumps.	All are active dumps in thelease area	All are active dumps in thelease area	
4f	Number of dead dumps.	Total 06 numbers of mineral rejects/waste dumps	Total 06 numbers of waste dumps	
4g	Number of dumps established.	Not Proposed	Dumps not stabalised	
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	

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4k	Specific comments of inspecting officer on waste dump management	NA	NA	Previously the lessee had categorically dumps the ore ranging from 10-12% P2O5 as waste material. As per threshold value >5% P2O5 is ore and proposal of recovering the ore has been given from these dumps.
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## 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.	Not Proposed	None of the pits area has been fully mineral exhausted.	
5b	Area under backfilling of mined out area	Not Proposed	Not done	About 0.13 H areabackfill towards northern par of Khatumbha block
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		
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	About 0.13 Ha area backfilled towards northern part of Khatumbha block. But, as per the present thrshold value of <5%P2O5 backfilled waste material is also mentioned as ore above 5%P2O5.

## 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	Submitted
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil
6c	afforestation done (ha).	About 0.5 Ha	About 0.5 HA
6d	No. of saplings planted during the year	Not Proposed	Not done
6e	Cumulative no .of plants	Not Proposed	About 4600 saplings planted
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	About 0.13 Ha area was backfilled towards northern part of pit
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not Proposed	Not Done

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6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Proposed	Nil
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	Not Done
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not Proposed	NA
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	

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**Mineral Conservation:**


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Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM excavation /produced is to be dispatched	14028 MT ROM excavation/ production is dispatched during the year 2021-22
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Grade wise sizing & sorting by mechanical crusher & screening was being practised	Grade wise sizing & sorting by mechanical crusher & screening was being practised as per previous approved plan details Grade wise ore sorting at mine not during the year 2019-20.
7c	Different grade of mineral sorted out at mines.	Yes, up to 205 P2o5, Above p2o5	Yes, up to 205 P2o5, Above p2o5
7d	Any beneficiation process at mines	Dry beneficiati on	Dry beneficiation
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

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 Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Not done	

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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
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)	50 saplings to be planted	50 saplings planted during 2021-22
8g	Survival rate	Not Proposed	About 80%
8h	Water sprinkling on roads to control airborne dust	Yes Proposed	Yes done

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8i	General remarks of inspecting  officer on aesthetic beauty in and around mines area	NA	NA	Plantation is being done to improve aesthetic beauty
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## Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Annual Returns 2022-23: - Monthly Returns up to the Month of December - 2022:- Submitted on time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer: - Shri Sushil Charpe Geologist:- Shri Sushant Nikam	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Pit: 16.95 Ha Dump - 9.30 ha Road & Infra.: 0.18 Hect, Mineral Storage : 5.36 ha Reclaimed and Rehabilitated : Nil	
9d	Scrutiny of Annual return on afforestation		50 saplings planted with 80% survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		ROM -10714 UP TO 20% P205-45329 Tonne	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine : UP TO 20% P205- Rs 1256/- CoP- Rs. 404.07/T
9h	Scrutiny of Annual return on fixed assets	Not furnished
9k	Scrutiny of Annual return on mining machineries	BACK HOE, 0.90 cum-2 No. FRONT END LOADER-1.5 cum- 1 No. BLAST HOST DRILL- 110 mm-1 No. Dumper- 16 Tonnes-4 No.

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**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
11(1) & 45(7)	10/04/2023	Not complied	11(1) & 45(7)	20/02/2024	

**Date :****(IBRAHIM. SHARIEF)**

Indian Bureau of Mines