

**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- 1/NGP

**Mine code :** 46MPR19001

- (i) Name of the Inspecting : **SQ32** ) **SANDEEP KUMAR SINGH**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 24-DEC-20
- (v) Prev.inspection date : 02-JUN-18

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KACHALDARA**
- (b) **Registration NO.** :
- (c) Category : A Manual
- (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 : 27-APR-99
- (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 : 2.2
- (c) Period of lease : 20
- (d) Date of Expiry : 27-SEP-23
4. Mineral worked : ROCK PHOSPHATE 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 : S K MISHRA  
 MPSCMC, AREA HILLS, JAIL  
 ROAD BHOPAL MADHYA  
 PRADESH  
 Phone:  
 FAX :

Agent : S K DUBE  
 MPSCMC, AREA HILLS, JAIL  
 ROAD BHOPAL MADHYA  
 PRADESH  
 Phone:  
 FAX :

## Mining Engineer

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

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	15-OCT-04
Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	28-AUG-08
	:	Mining Scheme rule 12 MCDR1988	11-JUN-13

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NP	nil	Previous Scheme of Mining for the period 2013-14 to 2017-18 approved on dtd 11.06.2013 & no further document was submitted for approval
1b	Exploration over lease area for geological axis 1 or 2		No exproation done in the previous approved plan period.	The lease is an old mine which is operational since 1974. As per the approved document the exploration in the lease area is under G1 category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NP	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NP	No exploration carried out during approved plan period.	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) - 3.964 Reserves in Million Tonnes Proved(111) - 3.79 Resources in Million Tonnes Feasibility(221): 0.341 Reserves/resources as on 01.04.2020 Resources in Million Tonnes Feasibility(2 21): 0.341 Reserves/reso urces as on 01.04.2013	Reserves position after necessary depletion of production carried out during period 2013-14 to 2017-18
1f	General remarks of inspecting officers on geology, exploration etc		There is no valid approved mining plan for 19-20. deposit is of lenses type, having varying grade of P205 . GSI had carried out the regional exploration covering the lease area also. Based on this, reserves & resources were estimated in previous approved SOM

## Development :

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

2a	Location of development w.r.t.lease area	NP	NA	Previous Scheme of Mining for the period 2013-14 to 2017-18 approved on dtd 11.06.2013 & no further document was submitted for approval during the year 2018-19 to 2019-20
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NP	NA	
2c	Stripping ratio or ore to OB ratio	NP	NA	
2d	Quantity of topsoil generation in m3	NP	NA	
2e	Quantity of overburden generation in m3	NP	NA	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Previous Scheme of Mining for the period 2013-14 to 2017-18 approved on dtd 11.06.2013 & no further document was submitted for approval during the year 2018-19 to 2019-20.

---

Exploitation:

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

---

3a	Number of pit proposed for production	NP	NA	Previous Scheme of Mining for the period 2013-14 to 2017-18 approved on dtd 11.06.2013 & no further document was submitted for approval during the year 2018-19 to 2019-20.
3b	Quantity of ROM mineral production proposed	NP	NA	
3c	Recovery of sailable/usable mineral from ROM production	NP	NA	
3d	Quantity of mineral reject generation	NP	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NP	NA	
3f	Quantity of sub grade mineral generation.	NP	NA	
3g	Grade of sub grade mineral generation	NP	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	NP	NA	As per the previous approved document open cast fully mechanised mining operations were practised.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NP	NA	Sizing of ore by crushing plant were carried out previously as mentioned in approved document.
3j	Provision of drilling and blasting in mineral benches	NP	NA	
3k	Provision of mining machineries in mineral benches	NP	NA	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NP	NA	
3m	Total area covered under excavation/pits	NP	NA	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.	NP	nil	Most of the lease area is devoid of OB. The material below 5% P2O5 was considered as OB/waste material
3o	Total area put in use under different heads at the end of year	NP	Pits-16.95Ha Waste dump-9.30Ha Mineral Storage-1.53Ha Infrastructure-0.180Ha Road-0.80Ha As on date	

3p	Production of ROM mineral during the last five year period as applicable	2013-14-: 21138MT 2014-15-: 1325MT 2015-16-: 80,180 MT 2016-17-: 90,000 MT 2017-18-: 97,000MT 2018-19-: Not Proposed 2019-20-: Not Proposed	2013-14-: 1,31,464 MT 2014-15-: 19,598 MT 2015-16-: Nil MT 2016-17-: 2,523 MT 2017-18-: 19,419 MT 2018-19-: Nil 2019-20-: Nil	Minining operation were suspended on dtd 17.06.2019 for the non-compliance of rule 11(1) of MCDR.,2017.
3q	General remarks of inspecting officers on method of mining etc.	nil	nil	Previous Scheme of Mining for the period 2013-14 to 2017-18 approved on dtd 11.06.2013 & no further document was submitted for approval during the year 2018-19 to 2019-20. Further, Minining operation were suspended on dtd 17.06.2019 for the non-compliance of rule 11(1) of MCDR.,2017.

---

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NP	Separate dumping of mine waste being practised.	Minining operation were suspended on dtd 17.06.2019 for the non-compliance of rule 11(1) of MCDR.,2017.
4b	Location of topsoil, OB and mineral reject dumps	NP	Mineral reject/mine waste material being stacked/dumped at different 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.	No active dumps in the lease area	No active dumps in the lease area	Minining operation were suspended on dtd 17.06.2019 for the non-compliance of rule 11(1) of MCDR.,2017.
4f	Number of dead dumps.	Total 06 numbers of waste dumps	Total 06 numbers of waste dumps	
4g	Number of dumps established.	Not Proposed	Dumps not stabalised	Minining operation were suspended on dtd 17.06.2019 for the non-compliance of rule 11(1) of MCDR.,2017.
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	nil	nil	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.
----	--	-----	-----	--

---

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	About 0.13 Ha area backfilled towards northern part 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	About 0.13 Ha area reclaimed by backfilling towards northern part of Khatumbha block	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	nil	nil	about 0.13 Ha area backfilled towards northern part of Khatumbha block. But, as per the present threshold 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
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	Minining operation has been suspended from dtd 17.06.2019 for the non-compliance of rule 11(1) of MCDR.,2017.
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil	
6c	afforestation done (ha).	Not Proposed	Nil	Minining operation has been suspended from dtd 17.06.2019 for the non-compliance of rule 11(1) of MCDR.,2017.
6d	No. of saplings planted during the year	Not Proposed	Not done	
6e	Cumulative no .of plants	Not Proposed	Details not provided in approved document	
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	NA	About 0.13 Ha area was backfilled towards northern part of Kah

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not Proposed	Not Done	
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	Mine operation suspended since last 2 years for non compliance of Rule 11(1) of MCDR,2017	
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	Not Done	Mine operation suspended since last 2 years for non compliance of Rule 11(1) of MCDR,2017

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	nil	nil	Mine operation suspended since last 2 years for non compliance of Rule 11(1) of MCDR, 2017
----	---	-----	-----	--

---

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	Previous Scheme of Mining for the period 2013-14 to 2017-18 approved on dtd 11.06.2013 & no further document was submitted for approval during the year 2018-19 to 2019-20
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Proposed	Grade wise sizing & sorting by mechanical crusher & screening was being practised as per previous approved plan details	
7c	Different grade of mineral sorted out at mines.	Not Proposed	Grade wise ore sorting at mine not during the year 2019-20.	
7d	Any beneficiation process at mines	Not Proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	nil	nil	Previous Scheme of Mining for the period 2013-14 to 2017-18 approved on dtd 11.06.2013 & no further document was submitted for approval during the year 2018-19 to 2019-20.

---

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Not done	
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	Previous Scheme of Mining for the period 2013-14 to 2017-18 approved on dtd 11.06.2013 & no further document was submitted for approval during the year 2018-19 to 2019-20.
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)	Not Proposed	No plantation work carried out during 2019-20	
8g	Survival rate	Not Proposed	Nil	
8h	Water sprinkling on roads to control airborne dust	Not Proposed	Not done	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Mining operations were suspended from 17.06.2019 for non-compliance of Rule 11(1) of MCDR, 2017. Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent.
----	--	--

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		No returns submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		No returns submitted.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		No returns submitted.	
9d	Scrutiny of Annual return on afforestation		No returns submitted.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		No returns submitted.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		No returns submitted.	

---

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	No returns submitted.
9h	Scrutiny of Annual return on fixed assets	No returns submitted.
9k	Scrutiny of Annual return on mining machineries	No returns submitted.

---



**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 :**

**(SANDEEP KUMAR SINGH)**

Indian Bureau of Mines