

**MCDR INSPECTION REPORT**

I/30325/2024

**General**

S.N.	Particulars	Details
1	Name of the Mine	Tiguda, hirapur Rock Phosphate
	Date of Inspection:	21/01/2023
	Name of Inspecting Officer	Ibrahim Sherief
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	52.8 ha
3	Mine code	46MPR34001
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/7404/2011
5	Name of the Lease, Address, Phone, email and fax number	M/s. M.P.STATE MINING CORPORATION LTD. PRAYAS BHAVAN BLOCK NO1(A)SECOND FLOOR JAIL ROAD, ARERA HILLS BHOPAL
6	Village	TIGORA
7	Taluka/Mandal	SHAHGARH
8	District	SAGAR
9	Pin code	
10	State	MADHYA PRADESH
11	Post Office	HIRAPUR
12	Nearest Police Station	
13	Nearest Railway Station	
14	Date of Grant of Mining Lease	27/08/1997
15	Date of Execution	05.06.1998
16	Date of opening of Mine	
17	Date of First Renewal, if applicable and its period & expiry	31.03.2017
18	Date of Second Renewal, if applicable and its period & expiry	31.03.2017
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Atul Sharma, info@mpsmcl.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Ashish Bahadur
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri S. K. Sharma
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri S. K. Sharma
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Komal Singh Lodhi
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	1.M.P/Sagar/Rock Phosphate/Mining Plan/GPSU-397-98., 26.031998 2.MP/Sagar/Rock Phosphate/MPLN/MOD-09/2022-23, 30.05.2022
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	1.M.P/Sagar/Rock Phosphate/Mining Scheme, 27/04/2005 2.M.P./Sagar/Rock Phosphate/Mining Scheme/44/08-09, 17/04/2009 3.M.P./Sagar/Rock Phosphate / M. Sch.-12/13-14/4073, 30/07/2013.

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27	Mineral(s) granted in lease and approved for Mining	PHOSPHATE
28	Method of Mining (Opencast, Underground)	Opencast,
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non-Captive	NON CAPTIVE

**Exploration**

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	No proposal for the year 2021-22, however proposal to drill 50 no. of bore holes is committed for the year 2022-23	Nil	Violation was pointed out
1b	Exploration over lease area for Geological axis 1 or 2.	Entire lease area OF 50.8 Ha	Nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	lessee	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	50.8 Ha	Nil	
1e	Balance reserves as on 01.04.2021	784578	784578	As on 01.04.2022
1f	General remarks of Inspecting officer on geology, exploration etc.	<p><b>Geology:</b> - LENSOIDAL BODIES, Strike- N70W, Dip- 15 to 20, N35 E. The Gangau Formation containing phosphorite occur through out the length of Bijwar basin directly rest on different formation of bijwar group and even over the Bundelkhand granite basement. The environment of Bijwar basin was fluctuating frequently from oxidising to reducing condition during the deposition of ferrugeneous shale, sandstone, breccia, black shale, dolomite, phosphorite respectively. The different black shale, dolomite and phosphorite beds with different ferrogeneous shale shows rhythmic fluctuation of the depositional environment and deposition of phosphorite</p> <p><b>Exploration:</b> - G2- 5.28 Ha, G3-18.6 Ha, Unexplored-28.92 Ha</p>		

**Development**

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	No proposal	Nil	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	No proposal	Nil	Do-
2c	Stripping ratio or ore to OB ratio	No proposal		
2d	Quantity of topsoil generation in m <sup>3</sup>	No proposal		
2e	Quantity of overburden generation in m <sup>3</sup>	No proposal		
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	8 Pits, were observed and 6 dumps are observed		

**Exploitation**

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S.N	Item	Proposals	Actual Work	Remarks	
3a	Number of pits proposed for production	No proposal	Nil	8 pits are observed in the lease area	
3b	Quantity of ROM mineral production proposed (2022-23)	No proposal	Nil		
3c	Recovery of Salable/usable mineral from ROM production	No proposal	Nil		
3d	Quantity of mineral reject generation	No proposal	Nil		
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil		
3f	Quantity of sub-grade mineral generation	No proposal	Nil		
3g	Grade of sub-grade mineral generation	No proposal	Nil		
3h	Manual/Mechanized method adopted for segregation from ROM	No proposal	Nil		
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil		
3j	Provision of drilling & blasting in mineral benches	No proposal	Nil		
3k	Provision of mining machineries in mineral benches	No proposal	Nil		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No proposal	Nil		
3m	Total area covered under excavation /pits	No proposal	Nil	About 10.4 Ha area is degraded due to mining	
3n	Ore to OB ratio for the pit/mine during the year	No proposal	Nil		
3o	Total area put in use under different heads at the end of year	No proposal		Pit: 10.4 Ha Dump – 0.68 ha Road & Infra.: 0.68 Hect, Mineral Storage : 0.68 ha Reclaimed and Rehabilitated : 0.0 ha	
3p	Production of ROM mineral during last five-years period, as Applicable	18-19	No proposal	Nil	
		19-20	No proposal	Nil	
		20-21	No proposal	Nil	
		21-22	No proposal	Nil	
3q	General remarks of inspecting officer on method of mining etc	No mining operations is being carried out in the lease area during the year 2021-22. Presently mining is being carried out by mechanized method of mining.			

**Solid Waste Management-Dumping**

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S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No proposal	Nil	Waste dumps and mineral dumps are found maintained separately
4b	Location of topsoil, OB & mineral reject dumps	No proposal	Nil	-
4c	Number of Dumps within lease area and outside lease area	No proposal	Nil	6 no. of waste dumps are observed
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	Within UPL
4e	Number of Active & Alive dumps	No proposal	Nil	01
4f	Number of deed dumps	No proposal	Nil	06
4g	Number of dumps established	No proposal	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	-
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	-
4j	Number of settling ponds	No proposal	Nil	-
4k	Specific commends of inspecting officer on waste dump management	6 old dumps are observed in the lease area.		

**Solid Waste Management-Backfilling**

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No area is matured for reclamation		

**Progressive Mine Closer Plan**

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and Correctly-Rule 23E (2). Details should be given in the format as given in Annexure-20	Submitted	Submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	No proposal	Nil	
	ii) Afforestation done (ha)	No proposal	Nil	

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	iii) No. of saplings planted during the year	No proposal	Nil	
	iv) Cumulative no. of plants	No proposal	Nil	
	v) Any other specific method of rehabilitation	No proposal	Nil	
	vi) Cost incurred on watch & care during the year	No proposal	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	No proposal	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	No proposal	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	No proposal	Nil	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations			

**Mineral Conservation**

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	No proposal	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal	Nil	
7c	Different grade of mineral sort out at mine	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mechanised as well as manual method of sorting and sizing is noticed		

**Environment**

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	No proposal	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	No proposal	Nil	

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No proposal	Nil	
8g	Survival rate	No proposal	Nil	
8h	Water sprinkling on roads to control airborne dust	No proposal	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	plantation is being carried to improve aesthetic beauty		

**Compliance of Rule 45**

S.N	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns :  Monthly and Annual returns to be submitted in time as per statute	Annual Returns 2022-23: - Submitted on time and Monthly Returns for the Month of December -2022:- Submitted on time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: - Shri S. K. Sharma Geologist:- Shri Komal Singh Lodhi	Mining Engineer and Geologist employed as reported
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 10.4 Ha Dump – 0.68 ha Road & Infra.: 0.68 Hect, Mineral Storage : 0.68 ha Reclaimed and Rehabilitated : 0.0 ha	As submitted by lessee
9d	Scrutiny of Annual return on afforestation	300 saplings planted with 80% survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM –Nil Graded ore- Nil	
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ex Mine -Nil CoP- Nil.	
9i	Scrutiny of Annual return on Fixed assets	FA= Not furnished/-	
9k	Scrutiny of Annual return on mining Machineries	Nil	

Details of Validations observed during current inspection and compliance position of earlier violation pointed out: -

Sl No.	Violations pointed out	Status of compliance
1	11(1)	Not complied, mine is suspended under rule 11(20 & 45(7) of MCDR 2017
2	45(7)	

Date:

Name:

Designation: