

MCDR INSPECTION REPORT**General**

S.N.	Particulars	Details
1	Name of the Mine	Luhani Rock Phosphate Mine
	Date of Inspection:	21/12/2023
	Name of Inspecting Officer	Ibrahim Sharief, Deputy Controller Mines
	Name of the persons accompanied with inspecting officer with designation	Shri Rajneesh Mishra, Agent, Shri Rajesh Kumar, Mining Engineer
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	13.20 ha
3	Mine code	46MPR07002
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/6722/2011
5	Name of the Lease, Address, Phone, email and fax number	LUHANI ROCK PHOSPHATE MINE
6	Village	LUHANI
7	Taluka/Mandal	BAXHWAHA
8	District	CHHATARPUR
9	Pin code	471001
10	State	MADHYA PRADESH
11	Post Office	MADDEVRA
12	Nearest Police Station	
13	Nearest Railway Station	
14	Date of Grant of Mining Lease	08.06.2015
15	Date of Execution	16.10.2015
16	Date of opening of Mine	03.03.2016
17	Date of First Renewal, if applicable and its period & expiry	NA
18	Date of Second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Nitish Chaturvedi M/s. Khajuraho Stones (India) PVT.LTD. 6 KM,SAGAR ROAD DHADARI,CHHATARPUR, CHHATARPUR(M.P)
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	SHRI RAJNEESH MISHRA
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri PARITOSH KUMAR
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri RAJESH KUMAR, Diploma in mining Engineer,
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri ANAND KUMAR RAIKAR, MSc Geology
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	1. Mining Plan- MP/Chhatarpur/R. Phosphate /MPLN/ G-05/2012-13 on, 19.04.2013 2. Modification of MP- MP/Chhatarpur/Rock Phosphate /MPLN/ MOD-41/2016-17 20.03.2017

26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	Review of Mining Plan : MP/Chhatarpur/R. Ph. / RMP-29/2019-20 20.01.2020
27	Mineral(s) granted in lease and approved for Mining	Rock Phosphate
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanised
30	Captive/Non-Captive	

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	9 core bore holes	13 completed	
1b	Exploration over lease area for Geological axis 1 or 2.	G1 scale of exploration	Exploration was carried out in G1 scale	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Lessee	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	Nil	
1e	Balance reserves as on 01.04.2022	Reserves as per approved mining plan -2.31 million Tonnes Reserves to be depleted up to 01.04.2023 : 99992 Balance reserves : 2.21 Million Tonnes	Reserves as per approved mining plan -2.31 million Tonnes Reserves to be depleted up to 01.04.2023 : 99992 Balance reserves : 2.21 Million Tonnes	
1f	General remarks of Inspecting officer on geology, exploration etc.	<p>Geology: - The phosphorite in the lease area is associated with chert breccia, dolomite, shale & granite. The strike of the deposit is NW-SE & general dipping varies from 25 to 30 degree towards north east. The P2O5 content in phosphate varies from 18 to 29%.</p> <p>Exploration: Entire potential mineralized area has been explored in g1 scale</p>		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Towards SE- and merge the Quarry 2 with Quarry-3 N 2697175-2697262 & E312666 - 312830	Development is being carried out as proposed	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	No benches in top soil is proposed, bench of about 65 meters height and width more than height is proposed	Nil	
2c	Stripping ratio or ore to OB ratio	1 : 0.42	1 :0.42	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	15870	15872	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Deviation in excavation is observed		

Exploitation

S.N	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed (2022-23)	99981 T	99870 T	
3c	Recovery of Salable/usable mineral from ROM production	70%	100%	
3d	Quantity of mineral reject generation	Nil	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	Manual means	Manual means	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No study undertaken	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling and Blasting with 2.5 meter spacing, 2.2 meters burden using wagon drill and jack hammer drill	Drilling & blasting is being carried out as proposed	
3k	Provision of mining machineries in mineral benches	Excavator- 1.0 cum-01 No., Dumper-16T- 12, Wagon drill- 01 No.,	Excavator- 1.0 cum- 01 No., Dumper- 16T- 12, Wagon drill- 01 No.,	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes bench height of 6 meters is suitable for method of mining proposed.	Yes bench height of 6 meters is suitable for method of mining proposed	Bench height was not maintained, violation was pointed out
3m	Total area covered under excavation /pits	5.10	More or less same	
3n	Ore to OB ratio for the pit/mine during the year	1:0.42	1 : 0.42	
3o	Total area put in use under different heads at the end of year	7.45 Ha	10.27	Violation was pointed out and complied
3p	Production of ROM mineral during last five-years period, as Applicable			
		19-20	100010	99960
		20-21	97912	97880
		21-22	99981	99530
		22-23	99992	99870
3q	General remarks of inspecting officer on method of mining etc.	Mining operations are being carried out by deploying HEMM with Deep Hole drilling and Blasting.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No proposal for top soil and OB generated to be dumped in earmarked place.	OB is found dumped in earmarked place.	
4b	Location of topsoil, OB & mineral reject dumps	E 312900 to E 313050, N 2697200 to N 2697260	E 312900 to E 313050, N 2697200 to N 2697260	
4c	Number of Dumps within lease area and outside lease area	01, within lease area	01, within lease area	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of Active & Alive dumps	01	01	
4f	Number of deed dumps	Nil	Nil	
4g	Number of dumps established	Nil	-	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dump	150	Not maintained	Violation pointed out and complied
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management	Waste is found dumped in earmarked place as per proposals in Mining Plan. Deviation in Retaining wall was observed, violation was pointed out accordingly.		

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	Area between BP 6-9 was backfilled without approved proposals, violation was pointed out
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	Area between BP 6-9 was backfilled without approved proposals, violation was pointed out		

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 to be in time	Submitted in time	
6b	Management of worked/mined out benches	No proposal	Nil	
	i) Area available for rehabilitation (Ha)	No proposal	Nil	
	ii) Afforestation done (ha)	No proposal	Nil	
	iii) No. of saplings planted during the year	100	200	
	iv) Cumulative no. of plants	No proposal	About 2300 sapplings	
	v) Any other specific method of rehabilitation	No such proposal	NA	
	vi) Cost incurred on watch & care during the year	No proposal	About Rs.25,000	
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 voids available for backfilling No proposal No proposal No proposal Nil	Nil Nil Nil Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	No proposal No proposal No proposal	Nil Nil Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environment monitoring is to be carried out regularly	Environment monitoring is being carried and results are within permissible limit	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Environment monitoring is being carried out, plantation is being carried out		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Rom generated is to be dispatched	99870 T is dispatched during the year	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical	manual	manual	
7c	Different grade of mineral sort out at mine	No proposal	Up to 20% P2O5 and more than 20 % P2O5	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Manual sorting and sizing is being carried out to upgrade the ore.		

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)	Yes proposed to maintain	Yes maintained	
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 plantation, additional plantation of 100 saplings to be planted.	200 saplings planted during the year	
8g	Survival rate	No proposal	About 75%	
8h	Water sprinkling on roads to control airborne dust	Yes, Water sprinkling on roads is to be done to control airborne dust	Water sprinkling arrangements is there.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Plantation is being carried out 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 up to the Month of -2022:- Submitted on time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: - Shri RAJESH KUMAR Geologist:- Shri Anand Kumar Raikar	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: 5.150 Ha Dump – 1.605 ha Road & Infra.: 3.86 Hect,		
9d	Scrutiny of Annual return on afforestation	200 saplings planted with 75% 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 : Above 20% to 25% P2O5- 900 Tonnes above 25% to 30% P2O5- 1226.42 Tonnes Upto 20% P2O5- 128.3 Tonnes		
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ex Mine above 25% to 30% P2O5- Rs 1000 Above 20% to 25% P2O5- Rs. 957.48 Upto 20% P2O5- Rs. 940. CoP- Rs. 569.13/T.		
9i	Scrutiny of Annual return on Fixed assets	FA= Rs. 3845000/-		
9k	Scrutiny of Annual return on mining Machineries	Type of machinery	Capacity of each type of machinery	No. of machinery
		BACK HOE	1.00 cum	2
		Drill Machine	100 mm	1
		DUMPER	16/10 Tonnes	16
		WATER TANKER	5000 Litres	1

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), 14(1), 37(2), 45(7) of MCDR, 2017 were pointed out	14(1,2),37(2) is complied

Date:

Name: IBRAHIM SHARIEF

Designation: Dy. Controller of Mines