

MCDR INSPECTION REPORT**General**

S.N.	Particulars	Details
1	Name of the Mine	DIAMOND PATHARIA Limestone mine
	Date of Inspection:	13/03/2024
	Name of Inspecting Officer	Ibrahim sharief
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	1247.267 Ha
3	Mine code	38MPR09003
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/398/2011
5	Name of the Lease, Address, Phone, email and fax number	M/S HEIDELBERGCEMENT INDIAN LIMITED
6	Village	SATPARA, JAGTHAR
7	Taluka/Mandal	PATHARIA
8	District	DAMOH
9	Pin code	470666
10	State	MADHYA PRADESH
11	Post Office	PATHARIA
12	Nearest Police Station	
13	Nearest Railway Station	
14	Date of Grant of Mining Lease	11/11/1992
15	Date of Execution	11/11/1992
16	Date of opening of Mine	30-APR-04
17	Date of First Renewal, if applicable and its period & expiry	05/02/2014
18	Date of Second Renewal, if applicable and its period & expiry	25/05/2017
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 Vimal Kumar Jain, Heidelberg Cement India Limited 2nd Floor Plot No 68 Sector 44 Gurugram Haryana 122 002
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Sunil Kumar
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Daya Shankar Vyas
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri C P Dadichi
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri R S Shukla
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	1. 716/4/B/MP/90/III/274 1 to 2746 on 27.06.1991 2. 314(3)/2012-MCCM (CZ)/MP-13 /229 on 27.11.2012 3. MP/Damoh/Limestone/ MPLNModi-09/14-15/3 060 on 28.05.2015
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and	1. 314 (3)/ 2003-MCCM (CZ)/MP/S-14 on 10/10/2004

	specific condition in approval letter, if any.	2. 314 (3)/ 2007-MCCM (C)/S-37/1246 on 25/04/2008 3. MP/Damoh/ Limestone/ RMP-25/16-17/511 on 01/02/2021
27	Mineral(s) granted in lease and approved for Mining	LIMESTONE
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non-Captive	Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Not Proposed	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	In 2022-23, there was no proposal for exploration	G1	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not Proposed	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	In 2022-23, there was no proposal for exploration	Nil	
1e	Balance reserves as on 01.04.2023	At the beginning of the year 1.4.2022, reserves under 111 category was 167579719.90 tones and resources under 221 category was 36816427 tones	Depletion of reserves during the year 2022-23 was 3925134.90 tones. Balance Reserves as on 01.04.2023 under 111 category is 163654585 tones and resources under 221 category is 36816427 tones.	Reserves and resources reported as per annual return submitted for the year 2022-23.
1f	General remarks of Inspecting officer on geology, exploration etc.		There is no backlog in exploration. Entire mineralized area has been explored under G1 level of exploration.	There is no backlog in exploration. Entire mineralized area has been explored under G1 level of exploration.

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Development proposed in Pit-03B Between coordinates E314294 to E314900 & N2651623 to N2652260, in Pit-	Actual development in Pit-03B between coordinates E314581 to E315091 & N2651857 to N2652225; in Pit-04B between coordinates	The deviation in actual excavation during the year 2022-23 has been reviewed in the

		04B between coordinates E313664 to E314388 & N2651408 to N2652330 and in Pit-07 between coordinates E312700 to E313020 & N2651060 to N2651815	E313692 to E314387 & N2651616 to N2652139; in Pit 5 between coordinates N2650780 to N26514813 & E313699 to E314086, in Pit 6 between coordinates N2652006 to N2652264 & E313578 to E313771 and in Pit-07 between coordinates E312822 to E313020 & N2651015 to N2651359.	modification of the mining plan approved dated 15/06/2023 for the period 2023-2024 to 2026-2027.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in topsoil overburden and mineral has been proposed	Separate benches in topsoil overburden and mineral has been maintained	
2c	Stripping ratio or ore to OB ratio	1:0.25 t /m3	1:0.37 t/m3	
2d	Quantity of topsoil generation in m ³	In 2022-23, proposal for topsoil quantity generation was 196236 m3	In 2022-23, the actual quantity of topsoil generated was 168000 m3	The compliance of top soil generation during the year 2022-23 has been reviewed in the Modification of Mining plan approved dated 15/06/2023 for the period 2023-2024 to 2026-2027.
2e	Quantity of overburden generation in m ³	In 2022-23, proposal for overburden quantity generation was 1338367 m3	In 2022-23, actual quantity of overburden generated was 1444249 m3	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	The deviation in actual excavation during the year 2022-23 has been reviewed in the modification of the mining plan approved dated 15/06/2023 for the period 2023-2024 to 2026-2027.		

Exploitation

S.N	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	During the year , three (03) nos of pits were proposed for exploitation namely Pit - 03B, Pit 04B & Pit 7	During the year 2022-23, three (03) nos of pits were exploited namely Pit - 03B, Pit 04B & Pit 7	
3b	Quantity of ROM mineral production proposed (2022-23)	5273810 tones.	3925134.902	The compliance of actual production for 2022-23 has been reviewed in the modification of the mining plan approved dated 15/06/2023 for the proposal period 2023-2024 to 2026- 2027.
3c	Recovery of Salable/usable mineral from ROM production	4430000 tones	3491860 tones	Recovery of saleable ore is based on the ROM quantity fed to the crusher and has been reviewed in the modification of the mining plan approved dated 15/06/2023 for the proposal period 2023-2024 to 2026- 2027.
3d	Quantity of mineral reject generation	843810 tones	784255 tones	
3e	Grade of mineral reject generation and threshold value declared	Below 34 % CaO	Below 34 % CaO	Screen rejects below 34% CaO
3f	Quantity of sub-grade mineral generation	Not Proposed	Nil	
3g	Grade of sub-grade mineral generation	Not Proposed	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Nil	
3j	Provision of drilling & blasting in mineral benches	Proposed	Drilling and Blasting is being carried out in mineral benches	
3k	Provision of mining machineries in mineral benches	Proposed	HEMM are	

			Deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes suitable	Yes suitable	
3m	Total area covered under excavation /pits	344.58 Ha	339.30 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.25 t/m3	1:0.37 t/m3	
3o	Total area put in use under different heads at the end of year	384.33 Ha	379.05 Ha	
3p	Production of ROM mineral during last five-years period, as Applicable (in Tonnes)	18-19	5625000	4636100.380
		19-20	5625000	4623313.630
		20-21	5625000	4401598.700
		21-22	5625000	5429162.468
		22-23	5273810	3925134.902
3q	General remarks of inspecting officer on method of mining etc	The conventional opencast fully mechanized mining with Hydraulic Excavator in conjunction with dumpers is being followed at the mine.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Not Proposed	Nil	
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	Nil	
4c	Number of Dumps within lease area and outside lease area	Not Proposed	Nil	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	Nil	
4e	Number of Active & Alive dumps	Not Proposed	Nil	
4f	Number of deed dumps	Not Proposed	Nil	
4g	Number of dumps established	Not Proposed	Nil	
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 dump	Proposed Bund length was 475 m	Actual bund 425 m	The compliance of proposed bund length in 2022-23 has been reviewed in the modification of the mining plan approved dated 15/06/2023 for the proposal period 2023-2024 to 2026-2027.
4j	Number of settling ponds	Not Proposed	Nil	
4k	Specific commends of inspecting officer on waste dump management	simultaneous backfilling of OB is being done and spreading of top soil over the backfilled 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	Full Extraction of ore before backfilling is proposed	Full Extraction of ore before backfilling is ensured	
5b	Area under backfilling of mined out area	10.00 Ha	13.76 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	196236 m3	168000 m3	
5d	Total area fully reclaimed & rehabilitated	Not Specified	129.56 Ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The compliance of the actual area under backfilling of mined out area for 2022-23 has been reviewed in the modification of the mining plan approved dated 15/06/2023 for the proposal period 2023-2024 to 2026- 2027.		

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	The holder of a mining lease shall submit to the competent authority a yearly report as per the format specified by the Indian Bureau of Mines, before 1st day of July report every year	The annual return on PMCP has been submitted timely.	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	53.91 Ha	51.35 Ha	The compliance of the backfilled area available for Reclamation and Rehabilitation in 2022-23 has been reviewed in the modification of the mining plan approved dated 15/06/2023 for the proposal period 2023-2024 to 2026-2027.
	ii) Afforestation done (ha)	8.0 Ha	8.0 Ha	

	iii) No.of saplings planted during the year	5000 Nos	6000 Nos	
	iv) Cumulative no. of plants	Not proposed	100000 Nos	
	v) Any other specific method of rehabilitation	Not proposed	Nil	
	vi) Cost incurred on watch & care during the year	Rs 900000	Rs 2325220	
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	258*387*15 10.0 Ha 8.0 Ha Not Proposed Not Proposed	285*410*15 13.76 Ha 8.0 Ha Nil Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	Not Proposed Not Proposed Not Proposed	Nil Nil Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Proposed	Carried out	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	The PMCP compliance for the year 2022-23 has been reviewed in the modification of the mining plan approved dated 15/06/2023 for the proposal period 2023- 2024 to 2026-2027.		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Crushing, sizing and screening of ROM proposed	Crushing, sizing and screening of ROM carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sort out at mine	Cement grade	Cement grade	
7d	Any beneficiation process at mines	Crushing, sizing and screening of ROM proposed	Crushing, sizing and screening of ROM is carried out	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Crushing, sizing and screening of ROM is carried out		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Proposed	Carried out	
8b	Concurrent use or storage of topsoil	Concurrent use	Concurrent use	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed in Pit 1, Pit 3B, Pit 05 and in Pit 06	Backfilling carried out in Pit1, Pit 2, Pit 6 and in Pit 7.	The deviation in actual backfilling during the year 2022-23 has been reviewed in the modification of the mining plan approved dated 15/06/2023 for the period 2023-2024 to 2026-2027.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Carried out	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	100000	100100	
8g	Survival rate	90%	95%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine has been maintained.		

Compliance of Rule 45

S.N	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Annual Returns 2022-23: - Submitted on time and Monthly Returns for the Month February -2024:- Submitted on time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: - C P Dadich Geologist:- R S Shukla	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1. Already exploited and abandoned by opencast (O-C) mining- 43.830 2. Covered under current (O-C) Workings- 112.33 3. Reclaimed-rehabilitated-183.14 Ha 4. Occupied by plant, buildings, residential, welfare buildings and roads- 20.5 Ha 5. Used for any other purpose (- 18.75 Ha 6. Work done under progressive mine closure plan- 5.5 Ha	

9d	Scrutiny of Annual return on afforestation	Within lease area: 6000 Nos	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Generation is Nil. Screen reject generated was 784255.00 MT	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Closing Stock of ROM is 475927.227 tonnes	
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Captive use. Ex Mine Rs / T. CoP-/T,Ex mine. Rs. 281.33	
9i	Scrutiny of Annual return on Fixed assets	FA= Rs. 564832905.	
9k	Scrutiny of Annual return on mining Machineries	Dumper	17
		Shovel	01
		Backhoe	04
		Dozer	2
		Loader	1

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

Sl No.	Violations pointed out	Status of compliance
	No violations pointed out	

Date:

Name: IBRAHIM SHARIEF

Designation: Deputy Controller of Mines