MCDR INPECTION REPORT				
MCDR INPECTION REPORT INDIAN BUREAU OF MINES				
MINERALS DEVELOPMEMT AND REGULATION DIVISION				
MCDR INSPECTION REPORT (Inspected for the purpose of examination of FMCP)				
Dehradun regional office				
Mine file No :			Mine code :	38HPR11002
I	**GENERAL**			
A	**Inspection Details**			
1	Name of IO	Mr Damodar Prasad Sharma		
2	Date of Inspection	21.05.2024		
3	Name of Mine	Kashlog Limestone Mine		
4	Status of operations at the mine on the date of inspection	Operational- Continuing		
5	Names and designation of accompanying officials	Mr Satish Audichya		
		Mine Manager		
6	Signature(s) of accompanying officials			
7	Programme Year	2023-24		
B	**Mineral Concession Details**			
1	Total Lease Area (Ha)	469 ha		
2	Break up of ML area	469 ha		
	Non Forest Land(Type of Land and its ownership) (Ha)	346.82 ha		
	Forest Land	122.18 ha		
3	ML Validity	27.05.2042		
4	Any Identification of ML like Survey no. ML No. etc.			
5	Name of the lessee	M/S Ambuja Cement Limited		
	Address with PIN code			
	Phone			
	Email	ajay.kapur@adani.com		
	Fax	022-22004997		
6	Date of Grant of Mining Lease	05.05.1992		
7	Date of Execution of Lease deed	28.05.1992		
8	Date of first Renewal, if applicable and its period & expiry	07.06.2012		
9	Date of second Renewal, if applicable and its period & expiry	Mining lease was renewed upto 27.05.2042 as per Mines & Minerals (Development & Regulation)Amendment Act, 2015		
10	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA		
11	Mineral(s) granted in lease and proved for mining	Limestone, and Shale		
12	Captive/Non Captive	Captive		
C	**Basic Mine Management Details**			
Sr	**Particular**			
1	Name of the Mine	Kasloh Limestone Mine		
2	IBM Registration Number under rule 45 of MCDR, 2017	IBM/447/2011		
3	Mine code	38HPR11002		
4				
5	Method of Mining(Opencast, Underground)	Opencast		
6	Category (Fully Mechanized, Others or Manual)	Fully Mechanized		
7	Date of opening of Mine	December 1, 1992		
8	Location of Mine	Kashlog		
	Village	Kashlog		
	Taluka/Mandal/Tehseel	Darlaghat		
	District	Solan		
	Pin code	171102		
9	State	H.P		
10	Post office	Darlaghat		
11	Nearest police station	Darlaghat		
12	Nearest Railway station	Kiratpur		
13	Co-ordinate of any two lease pillars			
	i) Pillar No. 1	pillar no 18- N 31°23'52.7" & E 76°51'3.1"		
	ii) Pillar No.2	Pillar no 68- N 31°23'45.8" & E 76°50'26.4"		
14	Co-ordinates of working sites			
	i)	31°23'53.2", 76°50'42.0" (25th no bench)		
	ii)	31°23'56.4", 76°50'53.9"(17th no bench)		
15	Address of Mine Office	Gagal Limestone Mine, Village Kashlog , Dist Solan,		
	Address with PIN code	Pin-174013		

16	Nominated Owner details			
	Name of the Nominated Owner	Mr Ajay kapur		
	Date of appointment			
	Date of first opening			
17	Agent details			
	Name of the Agent	Mr. Mukesh kumar Sexsena		
18	Mine Manager details			
	Name of the Manager	Mr. Satish Audichya		
	Date of appointment in mines	10.11.2023		
19	Mining Engineer Details	Mr. Satish Audichya		
	Qualification	B.E mining		
	Total Experience	17		
	Date of appointment in mines			
20	Geologist Details	Mr. Kamlesh kumar Saket		
	Qualification	M.Sc Geology		
	Total Experience	8		
	Date of appointment in mines	06.12.2023		
	Mining Plan/Modified Mining Plan approval details			
	DATE and No. of Approval Letter.	Date:- 19.12.2021 , Letter no. 614(2)/MP-A-182/09-DDN		
	Mine Plan execution/Excavation plan period	2022-2023 to 2026-27		
	specific condition in approval letter, if any.	Not applicable		
1	Scheme of Mining/Modified Scheme of Mining approval details	Not applicable		
	DATE and No. of Approval Letter.	Not applicable		
	Mine Plan execution/Excavation plan period	2022-2023 to 2026-27		
	specific condition in approval letter, if any.	Not applicable		
2	FMCP approval details, if any, specially in case of part surrender	Not applicable		
	DATE and No. of Approval Letter.	Not applicable		
	FMCP execution period, if any.	Not applicable		
	specific condition in approval letter, if any.	Not applicable		
Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining.				
III	**GEOLOGY**			
A	**Reserve And Resource Details**			
a)	**As mentioned in the latest approved MP/MMP/SOM/MSOM etc., as on**		**01.04.2024**	
	Particular	UNFC Code	Qty in Million	
1	Reserves			
	1.Proved Mineral Resources	111		
	Limestone		288.5	
	Shale		34.9	
	2. Probable Mineral Resources	121 & 122		
	Limestone			
	High Mg Limestone			
	Shale			
2	**Resources**			
	1.Feasibility Mineral Resources	211		
	Limestone		96.16	
	Shale		11.41	
	2. Pre-feasibility Mineral Resources			
	3. Measured Mineral Resources			
	4. Indicated Mineral Resources			
	5. Inferred Mineral Resources	333		
	Limestone		27.94	
	Shale		21.83	
	6. reconnaissance Mineral Resources			

b)	**Year wise Depletion of reserves during the intervening period**			
c)	**As on date 31.03.2021**			
	Particular	UNFC Code	Qty in Million tonnes	
1	**Proved Mineral Reserve -**			
	Limestone	111	288.5	
	Shale		34.9	
	Quartzite			
	Probable Mineral reserve	121 & 122	0.00	
	Probable Mineral reserve	121 & 122	0.00	
2	1.Feasibility Mineral Resources	211 (Limestone)	96.16	
		shale	11.41	
	2. Pre-feasibility Mineral Resources	221		
	3. Measured Mineral Resources	331		
	4. Indicated Mineral Resources	332		
	5. Inferred Mineral Resources	333(Limestone)	27.94	
		333 (Shale)	21.83	
	6. reconnaissance Mineral Resources	334		
B	**Exploration Proposals And Achievements**			
Sr	**Item**	**Proposal 2023-24**	**Actual 2023-24**	**Remarks**
1	Exploration carried out for proving mineral existence at Geological axis 1 or 2.	No Exploration was proposed during the year 2023-24	No exploration was carried out during year 2023-24.,	
2	Name of Exploration Agency	NA	NA	
3	Expenditure incurred in lakh Rupees during the year	NA	NA	
4	backlog of previous year 2019-20	Nil		
5	Exploration status of the ML area G1/G2/G3 axis as on date of inspection	As per approved plan G-1 252 ha , G-3 18 ha and Non Mineralized area 199 ha.	as on date G-1 270 ha and Non Mineralized area 199 ha.	
6	Balance area to be explored to bring Geological axis to G1 or G2	All Potential Area Covered under G-1 axis 270 ha.		
7	General remarks of inspecting officer on geology, exploration etc.	No Exploration was carried out during the year 2023-24,11 All Potential Area Covered under G-1 axis 270 ha.	No Exploration was carried out during the year 2023-24,11 All Potential Area Covered under G-1 axis 270 ha.	
C	**Litho units encountered on faces**			
IV	**MINING**			
2	Location of development w.r.t. lease area	Development was proposed in Two Blocks Kashlog and Mangu. Kashlog block proposed to be developed at N3458184 - N3459580 E687005- E687910 ii) Mangu block was proposed to be developed at N345718- N3458140 E688905- E690164.	Development of the pit was carried out in proposed area but benches height is observed about 12 meter which is more than proposal in Kashlog block towards western side of Pit. Violation letter issued to lessee as per rule 11(1) of MCDR-2017.	
3	Separate benches in topsoil, overburden and **mineral** (Rule 15)	No proposals incorporated	In kashlog block of the mining lease the deposit is reaching at the limit end, so the shale intrusions are quite often in the bench. Separate bench/ regular topsoil is not existing. However	
4	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	Development of the pit was carried out in proposed area but benches height is observed about 12 meter which is more than proposal in Kashlog block towards western side of Pit. Violation letter issued to lessee as per rule 11(1) of MCDR-	Development of the pit was carried out in proposed area but benches height is observed about 12 meter which is more than proposal in	
B	**Exploitation**			
Sr	**Item**	**Proposal 2023-24**	**Actual 2023-24**	**Remarks**

1	Mine pit details			
	Number of pits	2	2	
	Location of pits w.r.t. ML area	Kashlog Block and Mangu Block		
	Shape of pits - contiguous			
	Central block			
	Approximate size of the pits	115.9	115.40 ha	
	Number of benches in waste	nil	nil	
	Number of benches in mineral/ore	30	28	
	Bench Height in mineral	10	12	
	Bench height in OB/Top soil etc	nil		
	Pit Slope	45	45	
	Approach to faces/benches	Approach road found developed.	Approach road found d	

2	**Quantity of ROM mineral production proposed (last 5 years) (In Tonnes)**			
	2019-20	6.84 Million Tonne	5.89 Million Tonne	
	2020-21	6.84 Million Tonne	5.40 Million Tonne	
	2021-22	6.84 Million Tonne	3.13 Million Tonne	
	2022-23	7.83 Million Tonne	5.15 Million Tonne	
	2023-24	7.59 Million Tonne	6.51 Million Tonne	
	Quantity of topsoil removed in m3			
	2019-20	nil	nil	
	2020-21	nil	nil	
	2021-22	nil	nil	
	2022-23	nil	nil	
	2023-24	nil	nil	
	Quantity of interburden (Overburden HR) removed in m3			
	2019-20	nil	nil	No over burden present in this mine.
	2020-21	nil	nil	
	2021-22	nil	nil	
	2022-23	nil	nil	
	2023-24	nil	nil	
	Ore to OB ratio for the mine during the respective year			
	2020-21	01:00.0	01:00.0	
	2021-22	01:00.0	01:00.0	
	2022-23	01:00.0	01:00.0	
	2023-24	01:00.0	01:00.0	
3	Recovery of salable/usable mineral from ROM production	This is captive mine.ROM used for cement manufacturing purpose.	This is captive mine.ROM used for cement manufacturing purpose.	This is captive mine.ROM used for cement manufacturing purpose
4	**Quantity of mineral reject generation removed in tonnes**			
	2019-20	nil	nil	minerals reject reported in Annual Return which seems to in corrected , no mineral reject
	2020-21	nil	nil	
	2021-22	nil	nil	
	2022-23	nil	nil	
	2023-24	Nil	480000	
5	Grade of mineral reject generation and threshold value declared	NA	NA	
6	**Quantity of sub-grade mineral generation**	No sub grade mineral generated during the mine.		
7	Grade of sub-grade mineral generation	No sub grade mineral generated during the mine		
8	Manual / Mechanized method adopted for segregating from ROM	No proposals incorporated	No segregating carried out in mine.	
9	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study proposed in mine.	No beneficiation study carried out in mine.	
10	Provision of drilling & blasting in mineral benches	Conventional method of drilling & blasting with down the hole drill machine of 115 & 150 mm dia. size.	Conventional method of drilling & blasting with down the hole drill machine of 115 & 150 mm dia. size used in	
	Provision of drilling & blasting in benches other than mineral as the case may be	No proposals incorporated	Not Applicable	
11	Provision of mining machineries in mineral benches	Hydraulic excavators and dumpers will be used for loading and transporting blasted material.	5 cum Hydraulic excavators and 55 tonnes dumpers used for loading and transporting blasted	
	Provision of mining machineries in benches other than minerals as the case may be	NA	NA	
12	Provision of hauling/transportation from mine to dump/stack yard	L&T Komatus HD 465 55 tons dumper used for limestone transportation of limestone from mine to crusher.	Komatus HD 465 55 tons dumper used for limestone transportation of limestone from mine to crusher.	
13	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Average Height of benches proposed are 10m .yes	Average Height of some benches found about 12 meter are m, Violation point out to lessee as per rule 11(1) of MCDR-2017	
15	Updation of Plans & sections as per rule 27, 28,29	Yes	Yes	

	Date of Survey on Plan	20.12.2023	20.12.2023	
16	Manpower engaged			
	Managerial	10		
	Supervisory	6		
	Others	64		
	Ministerial			
	Workers			
14	General remarks of inspecting officer on method of mining etc	Mining operation carried out scientifically and systematic in this mine. Some benches are found about 12 meter which is more than proposals. Violation point out to lessee as per rule 11(1) of MCDR-2017.	Mining operation carried out scientifically and systematic in this mine. Some benches are found about 12 meter which is more than proposals. Violation point out to lessee as per rule 11(1) of MCDR-2017.	Mining operation carried out scientifically and systematic in this mine. Some benches are found about 12 meter which is more than proposals. Violation point out to lessee as per rule 11(1) of MCDR-2017.

C	**Solid Waste Management-Dumping**			
Sr	**Item**	**Proposal 2023-24**	**Actual 2023-24**	**Remarks**
1	Spread of dumps within lease area and outside lease area	03 Minerals reject dump proposed in Mine within lease area.	02 Mineral reject dump found active, dumping of mineral	
	Active Dumps	2	2	
	Inactive dumps	1	1	
2	Dumping of topsoil, OB & mineral reject	Minerals rejects dumped proposed.	Mineral rejects as proposals	
a)	Topsoil	No proposals incorporated	No Top soil generated during the year .	
	Selection of site is as per rules (Rule	Yes	Yes	
	Usage of top soil (Rule 32)	Small quantity of top soil generated ,which used for plantation purpose.	Small quantity of top soil generated ,which used for plantation purpose.	
b)	Mineral reject (Rule 16 & 33)	Proposed	Dumped as per proposals	
c)	Selection of site and measures for Overburden and/or Interburden dumping (Rule 16 & 33)	As per rules proposed.	Dumped as per proposals	
3	Location of dumps w.r.t. ultimate pit limit (Rule 16) & Number of active & alive dumps	ll Dump proposed within ultimate limit	All dump found with in ultimate pit.	
4	Number of dead dumps	Nil	Nil	
5	Number of dumps stabilized	None	None	
6	Length of Retaining wall or garland drain all along dump (In Meters)	Garland drains and Retain wall proposed all along mineral reject dump.	Retain wall not found , along the mineral reject dump, Violation point out to lessees as per rule 11(1) of MCDR - 2017.	
7	Number of settling ponds	nil	Nil	
8	Specific comments of inspecting officer on waste dump management	No waste generated during the year in mine. No overburden present in this mine and mineral reject dumping proposed in mine.	No waste generated during the year in mine. No overburden present in this mine and Mineral reject dumping found as per proposals.	
D	**Solid Waste Management-Backfilling**			
Sr	**Item**	**Proposal 2023-24**	**Actual2023-24**	**Remarks**
1	Status on part or full extraction of mineral from mined out area before starting backfilling (In Ha.)	No proposals Incorporated	NA	
2	Area under backfilling of mined out area (In Ha.)	No proposals Incorporated	NA	
3	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32) M^3	No proposals Incorporated	NA	
4	Total area fully reclaimed & rehabilitated (In Ha.)	No proposals Incorporated	NA	
5	General remarks of inspecting officer on backfilling, reclamation etc	No backfilling proposed during the year 2023-24..	No backfilling was carried out during year 2023-24..	
V	**ENVIRONMENT & PROGRESSIVE MINE CLOSURE PLAN**			
A	**Progressive Mine Closure Plan**			
Sr	**Item**	**Proposal 2023-24**	**Actual 2023-24**	**Remarks**
1	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.	Nil	Submitted	
2	Reclamation of dumps	NA	NA	
i)	area afforested	1.0	1.0	
ii)	No of saplings planted	**2500**	**2500**	
iii	Cumulative no. of plants			
iv)	Cost incurred on watch & care during the year	450000	450000	

3	**Management of worked/mined out benches**			
i)	Area available for rehabilitation (Ha)	No proposals Incorporated	NA	
ii)	Afforestation done (Ha)	No proposals Incorporated	NA	
iii	No. of saplings planted during the year	No proposals Incorporated	NA	
iv)	Cumulative no. of plants	No proposals Incorporated	NA	
v)	Any other specific method of rehabilitation	No proposals Incorporated	NA	
vi)	Cost incurred on post care and maintenance of plantation (Rs.)	No proposals Incorporated	NA	
4	**Compliance on reclamation and**	No proposals	NA	
i)	Voids available for backfilling (L X B X	No proposals	NA	
ii)	Void filled by waste/tailings (Ha.)	No proposals	NA	
iii	Afforestation on the backfilled area	No proposals	NA	
iv)	Rehabilitation by making water reservoir	No proposals	NA	
v)	Any Other specific means	No proposals	NA	
5	Compliance of Rehabilitation of waste	No proposals	NA	
i)	Afforestation	No proposals	NA	
ii)	Area rehabilitated (ha)	No proposals	NA	
iii	Method of of rehabilitation	No proposals	NA	

6	**Total area covered under (Land use pattern)/Land put to use under various heads**	**Proposal in latest approved doc**	**Actual**	**Remarks**
i)	Excavation/pits (Ha.)	115.9	115.4	
ii)	Top soil storage (Ha.)	0.00	0	
iii	Waste/Ob/IB dumps (Ha.)	0	0	
iv)	Mineral rejects (Ha.)	3.25	3.25	
v)	Sub grade mineral stacks (Ha.)	0	0	
vi)	Mineral stacks (Ha.)	0	0	
vii	Plants, buildings, Infrastructure etc. (Ha.)	6.76	6.76	
vii	Others (Specify) Road & green belt	7.92	7.92	
ix)	Total area put in use under different heads at the end of year For which FA given (Ha.) (Green belt and Barren land)	133.83	133.30	
x)	Whether Land put to use is within area for which FA given, if NO then the excess area put to use.(Ha.)	Yes		
7	General remarks of inspecting officer on PMCP compliance & progressive closure operations	PMCP report of this year 2023-24 submitted and PMCP proposals Retaining wall not constructed as per proposals, violation point out tom lessee as per rule 11(1) of MCDR-2017.	PMCP report of this year 2023-24 submitted and PMCP proposals Retaining wall not constructed as per proposals, violation point out tom lessee as per	
B	**Environment**			
1	Topography and landscape of the ML area	Hilly Terrain	Hilly Terrain	
2	Public building, places of worship, monuments, protected historical place, place of tourist within ML area, details thereof	Not Present	Not Present	
3	Water regime	NIL	NIL	No perennial water course in
	Surface	NIL	NIL	
	Ground	NIL	NIL	
	Stored water in excavated pits	NIL	NIL	
4	Human settlement in ML area	Some habitants observed with in lease area.	Some habitants observed with in lease area.	No human settlement within ML area
	How far the human settlement from active mine area	Some habitants observed with in lease area.	Some habitants observed with in lease area.	
5	**Environmental monitoring Last monitoring dates**			
i)	Air	Monitored	Report submitted.	
ii)	Water	Monitored	Report submitted.	
iii	Noise	Monitored	Report submitted.	
iv)	Ground Vibration	Monitored	Report submitted.	
v)	Soil	Not Applicable	Not Applicable	
vi)	Surface subsidence	Not Applicable	Not Applicable	
vii		Not Applicable	Not Applicable	
6	**Key result of such Environmental monitoring**			
i)	Air Respirable particulate matter (RPM)(Size less than 10 microns)	60 micro gram per cubic meter	55 micro gram per cubic meter	
ii)	Water	pH- 7.5	pH- ---	
iii	Noise	<80	<75	
iv)	Ground Vibration	<5	<5	
v)	Soil	NA	NA	
vi)	Surface subsidence	NA	NA	
vii	Acid Mine Drainage	NA	NA	
7	Precaution against Air pollution (rule 37)	Water sprinkler use for dust suppression.	Water sprinkler use for dust suppression.	
8	Precaution against Ground Vibration (rule 35)	Controlled blasting carried out by Use of electrical detonator (NONEL)	Controlled blasting carried out by Use of electrical detonator (NONEL)	
9	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic environment is good except degradation of land.	Aesthetic environment is good except degradation of land.	

VI	MINERAL CONSERVATION			
Sr	Item	Proposal	Actual Work	Remarks
1	ROM Mineral dispatch or grade-wise sorting within lease area	ROM used for cement manufacturing.	ROM used for cement manufacturing.	Shale, is mixing with High grade limestone for the correction of stacking pile quality.
2	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Applicable	Not Applicable	
3	Different grade of mineral sorted out at mines	Not Applicable	Not Applicable	
4	Any beneficiation process at mines	No proposals Incorporated	No beneficiation was carried out in mine.	
5	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No adverse issues observed regarding minerals conservation in this mine. ROM used for cement manufacturing purpose.	No adverse issues observed regarding minerals conservation in this mine. ROM used for cement manufacturing purpose.	ROM is fed to cement plant

VII	COMPLIANCE OF RULE 45			
Sr	Item	Comments		
1	**Status of submission of Monthly and Annual returns**	All Monthly and Annual Return Submitted with in time limit.		
S.	Item	Details GIVEN in A.R.	Observation of I/Officer	
2	Name of mine	Kashlog Limestone Mine.		
3	Address of mine	M/S Ambuja cement Limited,, Tehsil-Arki , Dist.Solan , Himachal Pradesh,		
4	On consumption of diesel and explosives in particular			
	Mineral reserve wrt approved SOM if diff (in case of routine depletion then the reason)	Reserve details furnished in return, seems corrected.	Reserve details furnished in return, se	
6	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Mining Geologist appointed in mine.	Mining Engineer and Mining Geologist appointed in mine.	
7	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details furnished in this regards.	seems to corrected.	
8	Scrutiny of Annual return on afforestation	Afforestation details furnished.	nos	
9	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	return scrutinzed for mineral reject .	Diificiency observed in r/o mineral reject quantity, Violation point out lessees as per rule 45(7).	
10	Scrutiny of Annual return on ROM stock and/or graded ore	Information given	Information given	
11	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	return scrutinized for ex mine price and Cost of production.	Reported Ex Mine Price found higher as compare to monthly return.	
12	Scrutiny of Annual return on fixed assets 9k Scrutiny of Annual return on mining machineries	Information given	Information given	

VIII	MCDR COMPLINCE PAST AND PRESENT			
1	Previous date of inspection	01/06/2023		
2	Violations pointed out in previous inspection	Nil		
3	Check Compliance status of complied violations	Nil		
4	Pending violations			
5	Status of compliance of MCDR,2017, including therewith the rectification of outstanding violation of rules			
6	**Violation Detected And Pointed Out During This Inspection**	11(1) and 45(7)		
Dat	14.06.2024	Mr Damodar Sharma		
		Indian Bureau of Mines		