

INSPECTION DATASHEET

S. N.	Particulars	Details
1	Name of the Mine Date of Inspection : Name of Inspecting Officer	Dillai Parbat Limestone Mines 21/02/2024 Sh. S.K. Singh
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	171.00 ha (Non -Forest Land)
3	Minecode	38ASM 06001
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/875/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. Cement Corporation of India Ltd. bokajacementmines@gmail.com
6	Village	Koilajan
7	Taluk/Mandal	Bokajan
8	District	Karbi Anglong
9	Pin code	782480
10	State	Assam
11	Post office	Bokajan
12	Nearest police station	Bokajan
13	Nearest Railway station	Bokajan
14	Date of Grant of Mining Lease	26/11/1970
15	Date of Execution	21/09/1972
16	Date of opening of Mine	25/03/1973
17	Date of first Renewal, if applicable and its period & expiry	14.07.1993 (21.09.1992 to 20.09.2002) (10 years)
18	Date of second Renewal, if applicable and its period & expiry	12.12.2006 (21.09.2002 to 20.09.2022) (20 years)
19	Date of third Renewal, if applicable and its period & expiry	12.05.2022 (upto 31-03-2030)
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Nil
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri. Pradeep Kumar Chand, Director (Fin), M/s. Cement Corporation of India Ltd., Core-V, SCOPE Complex, 7- Lodhi Road, New Delhi-110003, Phone No: 011-24360015, Email:- dirhr@cementcorporation.co.in, Date of appointment : 25/08/2022
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri. Sharad Kumar, General Manager, M/s. Cement Corporation of India Ltd., Bokajan cement factory, Bokajan, Dist-Karbi Anglong, Assam-782490, Phone No: 03675-246106, Email:- gm_bko@cementcorporation.co.in, Date of appointment : 12/01/2021
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri. Ashok Kumar, M/s. Cement Corporation of India Ltd., Bokajan cement factory, Bokajan, Dist-Karbi Anglong, Assam-782490, Phone No: 03675-246106, Email:- bokajacementmines@gmail.com, Date of appointment : 15/10/2019

24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri. S Bhattacharya, Date of appointment :15/10/2004 M/s. Cement Corporation of India Ltd., Bokajan cement factory, Bokajan, Dist-Karbi Anglong, Assam-782490, Phone No: 03675-246106, Email:- bokajancementmines@gmail.com.
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Name of geologist : Sri. Ranuj Kumar Das
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	No. 314(3)/90-MCCM(M)-MP-9 dtd. 26.02.1992 (1990-91 to 1996-97)
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Scheme of Mining No. 314(3)/98-MCCM(M)/MP/S-13 dtd. 14.01.1999 (1997-98 to 2001-02) Scheme of Mining No. 314(3)/2004-MCCM(Z)/MP-13 dtd. 03.05.2005 (2002-03 to 2006-07) Scheme of Mining No. 314(3)/2009-MCCM(CZ)/S-6/ 1667 dtd. 15.09.2009 (2007-08 to 2011-12) Review of Mining Plan No. IBM/GHY/AS/KA/LST/MS-74 dtd. 11.08.2016 (2016 -17) Review of Mining Plan No. IBM/GHY/AS/K.A/LST/MS-74 dtd. 23-05-2017 (2017-18 to 2021-22) Review of Mining Plan No. IBM/GHY/AS/KA/LST/MS-74 dtd. 18-04-2022 (2022-23 to 2026-27)
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
31	Captive/ Non captive	Captive

Exploration

S.N.	Item	Proposals	Actual work	Remarks																																																								
1a	Backlog of previous year	NIL	No Backlog																																																									
1b	Exploration over lease area for Geological axis 1 or 2.	NIL	NIL																																																									
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	NIL																																																									
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	Entire area in G1 level of exploration																																																									
1e	Balance reserves as on 01.04.2023		111 – 12302539 T 221 – 2176461 T																																																									
1f	General remarks of inspecting officer on geology, exploration etc.	<p>Blocks of the Deposit For the purpose of evaluation, the deposit has been divided into suitable blocks/sub-blocks giving weightage to factors such as controlling faults, reserves, overburden ratio, quality etc. Barren and unworkable portions due to high degrees of structural disturbances have not been considered for reserves estimation. As a result of detailed investigation 17 blocks have been demarcated. Seven blocks were identified earlier viz. A to G by ACC in 1978-80. Ten blocks were identified as a result of investigations carried out in 1982-83. These blocks are designated as H to Q.</p> <p>2.1.4.3: Lithology, Petrographic & Mineralogical Description for Major, Associated & Indicator Minerals –</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Unit No.</i></th> <th style="text-align: left;"><i>Description</i></th> <th style="text-align: center;"><i>Range of Thickness (m)</i></th> <th style="text-align: center;"><i>Normal Thickness (m)</i></th> </tr> </thead> <tbody> <tr> <td>-</td> <td>Soil</td> <td style="text-align: center;">0.00 - 25.00</td> <td style="text-align: center;">3 - 5</td> </tr> <tr> <td>9</td> <td>Clay with intermittent minor bands of sandstone and limestone.</td> <td style="text-align: center;">0.00 - 53.80</td> <td style="text-align: center;">-</td> </tr> <tr> <td>8</td> <td>Upper Limestone Band-A</td> <td style="text-align: center;">4.02 - 8.60</td> <td style="text-align: center;">4 - 8</td> </tr> <tr> <td>7</td> <td>Clay with intermittent minor bands of sandstone and limestone.</td> <td style="text-align: center;">19.08 - 30.89</td> <td style="text-align: center;">27 - 30</td> </tr> <tr> <td>6</td> <td>Lower Limestone Band-1</td> <td style="text-align: center;">6.51 - 10.76</td> <td style="text-align: center;">7 - 9</td> </tr> <tr> <td>5</td> <td>Intervening sandstone</td> <td style="text-align: center;">11.10 - 18.75</td> <td style="text-align: center;">3 - 15</td> </tr> <tr> <td>4</td> <td>Lower Limestone Band-2</td> <td></td> <td></td> </tr> <tr> <td>a)</td> <td>Cement grade limestone</td> <td style="text-align: center;">7.17 - 16.01</td> <td style="text-align: center;">10 - 12</td> </tr> <tr> <td>b)</td> <td>Sub-Calcic Limestone</td> <td style="text-align: center;">0.00 - 7.20</td> <td style="text-align: center;">2 - 4</td> </tr> <tr> <td>c)</td> <td>Shaly limestone</td> <td style="text-align: center;">0.00 - 9.25</td> <td style="text-align: center;">4 - 6</td> </tr> <tr> <td>3</td> <td>Basal sandstone</td> <td style="text-align: center;">0.00 - 9.25</td> <td style="text-align: center;">2 - 3</td> </tr> <tr> <td>2</td> <td>Sylhet trap</td> <td style="text-align: center;">0.00 - 12.00</td> <td></td> </tr> <tr> <td>1</td> <td>Granite</td> <td style="text-align: center;">Basement</td> <td></td> </tr> </tbody> </table> <p>Limestone in the area is massive fine grained grey, white limestone, argillaceous limestone / shale. The Limestone show typical bedded nature with varying thickness. The action of ground water on this limestone has resulted in the formation of solution cavities at different places.</p>			<i>Unit No.</i>	<i>Description</i>	<i>Range of Thickness (m)</i>	<i>Normal Thickness (m)</i>	-	Soil	0.00 - 25.00	3 - 5	9	Clay with intermittent minor bands of sandstone and limestone.	0.00 - 53.80	-	8	Upper Limestone Band-A	4.02 - 8.60	4 - 8	7	Clay with intermittent minor bands of sandstone and limestone.	19.08 - 30.89	27 - 30	6	Lower Limestone Band-1	6.51 - 10.76	7 - 9	5	Intervening sandstone	11.10 - 18.75	3 - 15	4	Lower Limestone Band-2			a)	Cement grade limestone	7.17 - 16.01	10 - 12	b)	Sub-Calcic Limestone	0.00 - 7.20	2 - 4	c)	Shaly limestone	0.00 - 9.25	4 - 6	3	Basal sandstone	0.00 - 9.25	2 - 3	2	Sylhet trap	0.00 - 12.00		1	Granite	Basement	
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		<p>Cement grade limestone should desirably have some limitations in the content of some minor elements and constituents, these minor constituents do not have direct significance in assessing the suitability of a limestone, their presence beyond certain limits is undesirable as they affect the cement manufacturing process or the quality of cement adversely. The minor constitutes in this deposit do not have any significance affect in the manufacture of the cement.</p> <p>There were no proposal for exploration in review year.</p>
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Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit – 1	Pit – 1 and pit 2	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Overburden & Limestone	Overburden & Limestone	
2c	Stripping ratio or ore to OB ratio	1:5.2	1:2	
2d	Quantity of topsoil generation in m3	Nil	N/A	
2e	Quantity of overburden generation in m3	14,56,994 T	2,38,456 T	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Stripping ratio achieved is less. Development is less. Violation issued. Pit is developed in benches.working is done in both pit1 and pit 2 which is not as per proposal.violation is issued.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	02	02 Pit exists. working is done in both pits which is not as per approved plan.
3b	Quantity of ROM mineral production proposed	2,80,000 MT	1,90,854.290 MT	
3c	Recovery of salable/usable mineral from ROM production	Not proposed	Not done	
3d	Quantity of mineral reject generation	No Proposal	NA	
3e	Grade of mineral reject generation and threshold value declared	No Proposal	N A	
3f	Quantity of sub-grade	No Proposal	N A	

	mineral generation			
3g	Grade of sub-grade mineral generation	No Proposal	N A	
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposal	N A	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	N A	
3j	Provision of drilling & blasting in mineral benches	Yes	Being done 4" dia, 3 mtr. holes.	
3k	Provision of mining machineries in mineral benches	Yes	Provided Ex-200 (1.2 CUM capacity) Tipper/Dumper (20Tonne capacity)	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Suitable 3-8 Mtr.	
3m	Total area covered under excavation/pits	52.75	47.422	
3n	Ore to OB ratio for the pit/mine during the year	1:5.2	1:2	
3o	Total area put in use under different heads at the end of year	77.29 Hect	74.29 Hect	
3p	Production of ROM mineral during last five-year period, as applicable	LIMESTONE 2018-19: 2,73,270 MT 2019-20: 2,73,320 MT 2020-21: 2,76,680 MT 2021-22: 2,72,800 MT 2022-23: 2,80,000 MT	LIMESTONE 2018-19: 1,92,924 MT 2019-20: 98,060 MT 2020-21: 1,30,427 MT 2021-22: 1,88,423 MT 2022-23: 1,90,854 MT	
3q	General remarks of inspecting officer on method of mining etc.	<p>Plan was revised in 22-23 for next 5 year. It is Captive mines. Production is 1,90,854 against planned 2,80,000. The plant capacity modification work was not done. deviation is seen in working. work is done in both pits whereas there is proposal to work only in pit 1. violation is pointed out for same.</p> <p>DTH Drill (LM-100 Hydraulic Drill) (20m/hr capacity) – 02 Nos., V pattern blasting is practiced and for a bench height of 8 M in limestone with 3 M burden and 3.5 M spacing, the charge required per hole, at a powder factor for 6 MT/kg</p> <p>Excavator (1.5 CUM capacity) – 04 Nos., Tipper/Dumper (20Tonne capacity) – 9 Nos., Dozer (135 kw 180 hp) – 01 No., Water Tanker (10000 Ltr.) – 01 No.</p>		

Solid Waste Management-Dumping

S.N	Item	Proposals	Actual work	Remarks	
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes. For over burden	Over burden is dumped in OB dumps.		
4b	Location of topsoil, OB & mineral reject dumps	OB DUMP I	OB DUMP I		
		NORTHING - N2875480	EASTING- E558612	NORTHING - N2875480	
		N2875800	E5588 00	N2875800	E5588 00
		OB DUMP II	OB DUMP II		
		NORTHING - N2875496	EASTING- E558845	NORTHING - N2875496	EASTING- E558845
		N287586	E5590 40	N287586	E5590 40
		OB DUMP IV	OB DUMP IV		
		NORTHING - N2876466	EASTING- E558574	NORTHING - N2876466	EASTING- E558574
		N 2876710	E55880 0	N 2876710	E55880 0
		OB DUMP V	OB DUMP V		
		NORTHING - N2876600	EASTING- E558256	NORTHING - N2876600	EASTING- E558256
		N2876988	E5583 97	N2876988	E5583 97
4c	Number of dumps within lease area and outside lease area	5 Nos.	5 Nos.		
4d	Location of dumps	Outside UPL	Outside UPL		

	w.r.t. ultimate pit limit (Rule 16)			
4e	Number of active & alive dumps	5 Nos.	5 Nos.	
4f	Number of dead dumps	-	-	
4g	Number of dumps established	5 Nos.	5 Nos.	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	-	Provided	
4j	Number of settling ponds	-	One	
4k	Specific comments of inspecting officer on waste dump management.	5 nos. of Active dumps exists in Lease. Drains are observed below them.		

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	Yes	Done	
5b	Area under backfilling of mined out area	19,470 m ²	17,600 m ²	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Not done	No Top soil Removal proposal
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of	Partially backfilling is done. Quantum of area planned is not		

inspecting officer on backfilling, reclamation etc	achieved. Less backfilling is achieved than planned. violation is pointed out for same.
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Progressive Mine Closure 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.		Report sent on July 14, 2023.	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (ha)	8.25 ha (5 Years)	1.76 ha (2022-23)	Area planned for backfilling for 5 years
	ii) Afforestation done (ha)	No Proposal	NIL	No proposal for worked out benches. Backfilling being done.
	iii) No. of saplings planted during the year	NIL	NIL	
	iv) Cumulative no. of plants	-	-	
	v) Any other specific method of rehabilitation	NIL	NIL	
	vi) Cost incurred on watch & care during the year	NIL	-	
6c	Compliance on reclamation and rehabilitation by backfilling			
	i) Voids available for backfilling (L * B * D)	19470 m2	17,600 m2'	
	ii) Void filled by waste/tailings	1.95 hect	1.76 hect	
	iii) Afforestation on the backfilled area	NIL	NIL	
	iv) Rehabilitation by making water reservoir	No Proposal	NIL	
	v) Any other specific means	No Proposal	NIL	
6d	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation	600 Nos.	220 Nos.	Boundary plantation planned. Boundary plantation achieved is less. Violation issued.
	ii) Area rehabilitation	NIL	NIL	
	iii) Method of rehabilitation	Plantation BPAB 0.9 hect	Eastern side - AB	
6e	Compliance of Environmental	Yes	Monitoring being done	

	monitoring (core zone & buffer zone)			
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Backfilling is done but less area achieved.violation is pointed out. Backfilling is planned & done in Mined out area. Barrier plantation is less in nos. Violation issued.		

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	NA	
7c	Different grade of mineral sorted out at mines	No Proposal	NA	
7d	Any beneficiation process at mines	No Proposal	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM is sent to Crusher located beside lease. Cement grade limestone is dispatched.		

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal in Review year.	Nil	
8b	Concurrent use or storage of topsoil	No proposal	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	For Waste Dumps	Dumps for waste	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes Proposed	Backfilling being done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes Proposed	Being done	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Baseline : 600 Nos.	Year : 200 Nos.	
8g	Survival rate	85%	75%	
8h	Water sprinkling on roads to control airborne dust	Yes	Done	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Barrier plantation seen. It is done but less in nos. violation is pointed out for same. Lot of greenery observed in Mine lease area.
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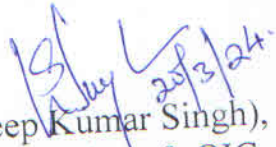
Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted till Jan'24 Annual Return submitted upto Yr 22-23	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME – Sudip Bhattacharya Geologist – Ranuj Kr. Das.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	47.222 pit Dump area – 20 hect Recl – 9.40	Data given
9d	Scrutiny of Annual return on afforestation	220 nos in Lease Less nos. is done	Violation is issued for planting less nos.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil. No reject generated as per plan.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock – 31-03-2023 29,299.682 T	Data is given.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Sale value : NA Captive supply ex mine : 304 Rs/T COP : 340 Rs/T	

9i	Scrutiny of Annual return on fixed assets	Fixed Assets Value given Rs 2622558.00	Details provided
9k	Scrutiny of Annual return on mining machineries	1) Shovel Mechanical : 4 Nos. 2) Dumper : 9 Nos. 3) Explosive Van : 1 No. 4) Water Tanker 1 No. 5) Air compressor: 2 Nos. 6) Dozer: 1 No. 7) Rock Drill (Non-Elec.) : 2 Nos. 8) Crusher : 1 No.	List is provided

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

Current inspection : violation is pointed out under MCDR 11(1) for not carrying out work as per approved mining plan for,
1. Production of limestone has been carried out from pit-1 located in North of lease & pit-2 in deviation to proposal ,not achieving stripping ratio, less development than planned, not achieving backfilling target and doing less no. of plantation.


 (Sandeep Kumar Singh),
 Deputy Controller of Mines & OIC,

(Name of inspecting officer with designation and date)