

MCDR INSPECTION REPORT

File No. AP/RR/LST.-03/Hyd. Vol. II

Mine Code: 38APR23002

1	Name of the Inspecting Officer	Shaival Kartikeya
2	Designation	Senior Mining Geologist
3	Accompanying mine Official with Designation	Shri N. Chaitanya, Manager (Mines)
4	Date of inspection	24-September-2024
5	Previous inspection date	11-January-2024

Part -I General Information

S. N.	Particulars	Details
1	Name of the Mine	Sangamkalan Limestone Mine - 1
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest- Nil. Non-Forest: 112.82 Ha. Total Lease Area: 112.80 Ha.
3	Minecode	38APR23002
4	IBM Registration Number under rule 45 of MCDR, 1988	613/2011
5	Name of the lessee, Address, phone, email and fax number	M/s The India Cements Limited Coromandel Towers, 93, Santhome High Road, Karpagam Avenue, R.A. Puram, Chennai (Tamil Nadu) - 600028
6	Village	Malkapur
7	Taluk/Mandal	Tandur
8	District	Vikarabad
9	Pincode	501158
10	State	Telangana
11	Post office	Tandur
12	Nearest police station	Karankote
13	Nearest Railway station	Tandur
14	Date of Grant of Mining Lease	18/08/1998
15	Date of Execution	04/09/1998 to 03/09/2018 (20 Years)
16	Date of opening of Mine	16/11/1998
17	Date of first Renewal, if applicable and its period & expiry	Supplementary Mining Lease for the extended period has been made. Period: 04/09/2018 to 03/09/2048 (30 Years) Executed on 31/01/2019
18	Date of second Renewal, if applicable and its period & expiry	N.A.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N.A.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri V. M. Mohan, Director, M/s The India Cements Limited Coromandel Towers, 93, Santhome High Road, Karpagam Avenue, R.A. Puram, Chennai (Tamil Nadu) – 600028 Phone: +91 (0) 9841080593 Email: mohan@indiacements.co.in

		DOA: 01/11/2023
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri K. S. Srinivasu, V.P. (Works) M/s The India Cements Limited Malkapur Village, Tandur Mandal, Vikarabad District, Telangana State, Phone: +91 (0) 9491044274 Email: srinivasu.ks@indiacements.co.in DOA: 24/05/2023
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri N. Chaitanya, M/s The India Cements Limited Malkapur Village, Tandur Mandal, Vikarabad District, Telangana State, Phone: +91 (0) 9491035372 Email: chaitanya.n@indiacements.co.in DOA: 23/03/2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri A. Nagendra Kumar, M/s The India Cements Limited Malkapur Village, Tandur Mandal, Vikarabad District, Telangana State, Phone: +91 (0) 7729069995 Email: mkp_mines@indiacements.co.in DOA: 29/12/2022 Exp.: +18 Years
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, Appointed. Shri B. Raju M/s The India Cements Limited Malkapur Village, Tandur Mandal, Vikarabad District, Telangana State, Phone: +91 (0) 9491035372 Email: mkp_mines@indiacements.co.in DOA: 22/04/2024 Exp.: +20 Years
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan AP/RR/Lst-Mp-MS-6/SZ dated 23/09/1998 (F.Y. 1998-99 to F.Y. 2002-03)
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 AP/RR/MP/LST-7/HYD. Dated 23/12/2022 (F.Y. 2023-24 to 2027-28)
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised.
30	Captive/ Non captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

1.0 Exploration

S.N.	Item	Proposals F.Y. 2022-23	Actual work F.Y. 2022-23	Remarks
1a	Backlog of previous year	No proposal	Nil.	The entire mining lease area has already been explored under G1 level of exploration.
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Nil.	G1 level: 112.80 Ha.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal	Nil.	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil.	-do-
1e	Balance reserves as on 01.04.2024	As on 01/04/2024 Under (111): 27.472523 Million Tonnes Under (211): 38.676918 Million Tonnes	As on 01/04/2024 Under (111): 28.302523 Million Tonnes Under (211): 38.676918 Million Tonnes	Average grade: CaO: 46.80%
1f	General remarks of inspecting officer on geology, exploration etc.	The mining lease area hosts limestone of the stratigraphic horizon "Kurkunta Limestone" of the Bhima Basin (5200 Sq.Kms). The rocks of Bhima Group are exposed over large tracts of Gulbrga district and partly into Vikarabad district of Telangana State. All the five Bhima Group Formations - Rabanpalli Shale, Kurkunta Limestone, Halkal Shale, Katamadevarahalli limetone and harwal Shale have sharp contacts and are ascribed to two cycles of sedimentation with major and minor structures within each. The Kurkunta limestone consists of limestone of varying types and is about 80 to 90m thick in the central part of basin elsewhere. Based on physical characters of the rock, the following units are identified: a)Flaggy, dark grey to bluish argillaceous limestone b)Massive, dark grey & bluish grey limestone c)Siliceous Limestone The outcrops of the Kurkunta Limestone Formation extend in a NE - SW direction and occur practically as a continuous patch throughout the subject area in Vikarabad district. The topography of the local area is gently undulating as can be deciphered from the		

		Surface Plan. Surface undulations are primarily governed by the structural attribute of the underlying stratified limestone bed exhibiting gentle dips towards east - north east. There are geomorphic highs and lows. The mining lease area is bereft of water bodies and streams of significant order. During precipitation, the surface run-off within the lease area tends to be along shallow rills / gullies down the gradient and unrestricted. The ML area is rocky strewn with float boulders of limestone amidst soil. Around the leasehold, most plots are fallow / cultivated seasonally by the villagers.
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2.0 Development

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
2a	Location of development w.r.t. lease area	F.Y. 2023-24: In between UTM co-ordinates (a) N1918969 to N1919553 and E762478 to E762738 and (b) N1919314 to N1919356 and E762688 to E763079	F.Y. 2023-24: In between UTM co-ordinates (a) N1918928 to N1919509 and E762416 to E763262 at several places. (b) Production and development have been done at 7.5 m barrier zone in between Pillar No. 32 to 36 without any approved proposal.	Deviation has been pointed out.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Topsoil: 01 no. Mineral/Ore: 05 nos.	Topsoil: 01 no. Mineral/Ore: 05 nos.	-
2c	Stripping ratio or ore to OB ratio	1 : 0.0	1 : 0.0	No overburden present in the mining lease.
2d	Quantity of topsoil generation in m3	7325.0 CuM	Nil generated during F.Y. 2023-24	Deviation has been pointed out for area deviation.
2e	Quantity of overburden generation in m3	No proposal.	Nil.	No overburden present in

				the mining lease.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development and production is being done through fully mechanized means.		

3.0 Exploitation

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
3a	Number of pits proposed for production	01 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	1000000.00 Tonnes.	170000.00 Tonnes	Less production has been done.
3c	Recovery of salable/usable mineral from ROM production	100%	100%	-
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 / Mechanised method adopted for segregating from ROM	No proposal.	Nil.	The entire produced limestone is being dispatched to the crusher, erected outside lease area.
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	Diameter: 115.0 mm Spacing: 5.0 m Burden: 4.0 m Depth: 8.0 m Explosive: AFNO	Diameter: 115.0 mm Spacing: 5.0 m Burden: 4.0 m Depth: 8.0 m Explosive: AFNO	-
3k	Provision of mining machineries in mineral benches	1. Excavator 01 no. with 1.10 CuM bucket capacity	1. Back Hoe 01 no. with 1.0 CuM bucket	-

		2. Dumpers 03 nos. with 10 CuM carrying capacity. 3. Hydraulic Drilling Machine 01 no. with 115.0 mm bit size. 4. Water Tanker with 2.0 CuM capacity	capacity 2. Dumpers 03 nos. with 15 CuM carrying capacity. 3. Hydraulic Drilling Machine 01 no. with 115.0 mm bit size. 4. Air compressor 01 no. with 450 CuM/Mn capacity 5. Water Tanker with 2.0 CuM capacity	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil: 0.50 m to 1.0 m Mineral/Ore: 9.0 m.	Topsoil: 0.50 m to 1.0 m Mineral/Ore: 9.0 m.	-
3m	Total area covered under excavation/pits	37.74 Ha. Up to end of F.Y. 2023-24	37.010 Ha. Up to end of F.Y. 2023-24	-
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.0	1 : 0.0	No overburden present in the mining lease.
3o	Total area put in use under different heads at the end of year	Pit- 37.74 Ha. OB/Waste- Nil. Others- 5.67 Ha. Up to end of F.Y. 2023-24	Pit- 37.010 Ha. OB/Waste- Nil. Others- 5.67 Ha. Up to end of F.Y. 2023-24	-
3p	Production of ROM mineral during last five-year period, as applicable	Yr. 2019-20: 10,00,000.00 Tonnes Yr. 2020-21: 10,00,625.00 Tonnes Yr. 2021-22: 10,00,000.00 Tonnes Yr. 2022-23: 10,00,000.00 Tonnes Yr. 2023-24: 10,00,000.00 Tonnes	Yr. 2019-20: 4,77,994.930 Tonnes Yr. 2020-21: 1,05,000.000 Tonnes Yr. 2021-22: 81,275.000 Tonnes Yr. 2022-23: 2,10,000.00 Tonnes Yr. 2023-24: 1,70,000.00 Tonnes	-
3q	General remarks of inspecting officer on method of mining etc.	Mining has been carried out through the opencast method with fully mechanized means using conventional drilling and blasting.		

4.0 Solid Waste Management-Dumping

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal has been given in the approved document for stacking of topsoil and mineral.	Nil.	-
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.	Old dumps/stocks Topsoil – 01 no. OB/Waste – Nil. Mineral/Ore- Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	01 no. of topsoil stock present within UPL.	-
4e	Number of active & alive dumps	No proposal.	Nil.	-
4f	Number of dead dumps	No proposal.	Nil.	-
4g	Number of dumps stabilized	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 comments of inspecting officer on waste dump management.	Nil.		

5.0 Solid Waste Management-Backfilling

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	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	7325.00 CuM of	No topsoil	-

	for restoration or rehabilitation of mined out area (Rule 32)	generated topsoil will be utilized for plantation	generated during F.Y. 2023-24.	
5d	Total area fully reclaimed & rehabilitated	0.20 Ha. area will be utilized for plantation of 500 nos. of saplings in the west side of the lease area along the mining lease boundary.	0.25 Ha. area has been utilized for plantation of 500 nos. of saplings along the safety zone towards west side of the lease boundary.	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	Nil.		

6.0 Progressive Mine Closure Plan

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	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.	As per rule 26(2), lessee has to submit the annual report before 1st day of July of every year.	Annual report on PMCP for F.Y. 2023-24 has been submitted before due date.	The given information has been cross verified during inspection.
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation 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 X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area 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 rehabilitated (ha) iii) Method of rehabilitation	500 nos. 0.20 Ha. By plantation	500 nos. 0.25 Ha. By Plantation	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular monitoring of the environmental parameters in the core and buffer zone.	Being done as per proposal.	All the parameters are within the permissible limits.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Nil.		

7.0 Mineral Conservation

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM/Ore will be dispatched directly to the crusher plant without sorting.	Being done as per proposal.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal for grade wise sorting.	ROM/Ore is being dispatched to the captive plant without sorting.	-
7c	Different grade of mineral sorted out at mines	-do-	-do-	-
7d	Any beneficiation process at mines	No Proposal.	NIL	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil.		

8.0 Environment

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
8a	Separate removal and	Proposal has been	Separate	-

	utilization of topsoil (Rule 32)	given in the approved document for separate removal and concurrent use of topsoil for the purpose of plantation.	removal and the concurrent use of generated topsoil is being done.	
8b	Concurrent use or storage of topsoil	7325.00 CuM of generated topsoil will be utilized for the purpose of plantation.	Nil topsoil has been generated during F.Y. 2023-24.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal.	Nil.	Old dumps/stocks Topsoil – 01 no. OB/Waste – Nil. Mineral/Ore- Nil.
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)	0.20 Ha. area will be utilized for plantation of 500 nos. of saplings.	0.25 Ha. area has been utilized for plantation of 500 nos. of saplings.	Planation has been done along the safety barrier.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	500 nos. of saplings will be planted over 0.20 Ha. area.	500 nos. of saplings have been planted over 0.25 Ha. area.	-do-
8g	Survival rate	70%	Approx 80%	-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads to control airborne dust through the water tanker.	Being done as per proposal.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil.		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to December 2024 A.R. Submitted up to F.Y. 2023-24	Nil.

S.N.	Item	Details GIVEN in A.R. F.Y. 2023-24	Observation of I/Officer F.Y. 2023-24	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri N. Chaitanya. Mining Engineer: Shri A. Nagendra Kumar. Geologist: Shri Nanthakumar M.	Manager: Shri N. Chaitanya. Mining Engineer: Shri A. Nagendra Kumar. Geologist: Shri Nanthakumar M.	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 37.010 Ha. OB/Waste- Nil. Others- 5.67 Ha.	Pit- 37.010 Ha. OB/Waste- Nil. Others- 5.67 Ha.	Nil.
9d	Scrutiny of Annual return on afforestation	Within ML: 602 nos. with 80% survival rate. Outside ML: 130 nos. with 60% survival rate.	Within ML: 602 nos. with 80% survival rate. Outside ML: 130 nos. with 60% survival rate.	Nil.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: Nil. Grade: Nil.	Mineral Reject: Nil. Grade: Nil.	Nil.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Closing Stock: Nil. Cement Grade Limestone Closing stock: Nil.	ROM Closing Stock: Nil. Cement Grade Limestone Closing stock: Nil.	Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value: Rs. 37979700.0 Ex-mine Price: Rs. 223.41 Per Metric Tonne Cost of Production: Rs. 223.41 Per	Sale value: Rs. 37979700.0 Ex-mine Price: Rs. 223.41 Per Metric Tonne Cost of Production: Rs. 223.41 Per	Nil.

		Metric Tonne		
9i	Scrutiny of Annual return on fixed assets	Rs. 24795859/-	Rs. 24795859/-	Nil.
9k	Scrutiny of Annual return on mining machineries	1. Back Hoe 01 no. with 1.0 CuM bucket capacity 2. Dumpers 03 nos. with 15 CuM carrying capacity. 3. Hydraulic Drilling Machine 01 no. with 115.0 mm bit size. 4. Air compressor 01 no. with 450 CuM/Mn capacity 5. Water Tanker with 2.0 CuM capacity	1. Back Hoe 01 no. with 1.0 CuM bucket capacity 2. Dumpers 03 nos. with 15 CuM carrying capacity. 3. Hydraulic Drilling Machine 01 no. with 115.0 mm bit size. 4. Air compressor 01 no. with 450 CuM/Mn capacity 5. Water Tanker with 2.0 CuM capacity	Machinery log books not maintained. Violation has been pointed out.

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

Violation Rule 11(1) and 19 (1) of MCDR, 2017 has been pointed out during inspection.

(Name of inspecting officer with designation and date)

**Shaival Kartikeya
Senior Mining Geologist
Date of Inspection 24/09/2024**