

MCDR INSPECTION REPORT

File No. AP/RR/LST.-04/Hyd. Vol. II

Mine Code: 38APR23003

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	12-January-2024

Part -I General Information

S. N.	Particulars	Details
1	Name of the Mine	Sangamkalan Limestone Mine - 2
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest- Nil. Non-Forest: 131.70 Ha. Total Lease Area: 131.70 Ha.
3	Minecode	38APR23003
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	14/01/2000
15	Date of Execution	22/12/2000 to 21/12/2030 (30 Years)
16	Date of opening of Mine	28/09/2002
17	Date of first Renewal, if applicable and its period & expiry	Supplementary Mining Lease for the extended period has been made. Period: 22/12/2030 to 21/12/2050 (20 Years) Executed on 17/10/2019
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 T. V. Satya Prasad, M/s The India Cements Limited Malkapur Village, Tandur Mandal, Vikarabad District, Telangana State, Phone: +91 (0) 8186010331 Email: mkp_mines@indiacements.co.in DOA: 16/10/2023 Qualification: B.E. Mining Exp.: +16 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 N. Janardhan Reddy 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: 26/04/2017 Exp.: +10 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-31/SZ dated 21/08/2000 (F.Y. 2000-01 to F.Y. 2004-05)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Modified Mining Plan AP/RR/MP/LST-7/HYD. Dated 23/12/2022 (F.Y. 2024-25 to 2029-30)
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: 131.70 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 01/10/2024 Under (111): 99.481155 Million Tonnes Under (211): 12.886295 Million Tonnes	As on 01/10/2024 Under (111): 99.481155 Million Tonnes Under (211): 12.886295 Million Tonnes	Updated reserves and resources has been obtained from the latest approved RMP dated 28/10/2024. Average grade: Cao - 46.10, SiO2-12.3, Al2O3- 2.03, Fe2O3-1.29, MgO-0.53
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 Gulbarga 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		

	<p>grey to bluish argillaceous limestone b) Massive, dark grey & bluish grey limestone c) Siliceous Limestone</p> <p>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.</p>
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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	<p>F.Y. 2023-24: In between UTM co-ordinates (a) N1917970 to N1918205 and E762507 to E763336 and (b) N1918405 to N1918466 and E762870 to E762910</p>	<p>F.Y. 2023-24: In between UTM co-ordinates (a) N1917960 to N1918225 and E762502 to E763314 at several places and (b) N1918374 to N1918495 and E762685 to E762929</p>	Deviation has been pointed out.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Topsoil: 01 no. Mineral/Ore: 07 nos.	Topsoil: 01 no. Mineral/Ore: 07 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	12484.00 CuM	5671.70	-
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	02 no.	02 no.	Common boundary permission has been obtained for 38APR23002 and 38APR23003
3b	Quantity of ROM mineral production proposed	29,98,372.00 Tonnes.	18,02,500.00 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 06 no. with 0.90 CuM bucket capacity 2. Tippers 16 nos. with 20 tonnes carrying capacity. 3. Water Tanker 03 nos. with 240 HP capacity. 4. Hydraulic Drilling Machine 03 no. with 115.0 mm bit size. 5. CP Compressor 03 nos. with 240 HP capacity. 6. Air Compressor 01 no. with 20 HP capacity 7. Explosive Van 01 no. with 40 HP capacity. 8. Jeep 02 nos. 9. Hydraulic rock breaker 01 no. with 240 BLC capacity.	1. Air compressor 01 no. with 450 CuM/Mn capacity. 2. Back Hoe 02 no. with 2.40 CuM bucket capacity 3. Dozer 01 no. with 176.0 HP capacity. 4. Explosive Van 01 no. with 2.605 Tonnes capacity. 5. Jeep/Tractor 01 no. with 40 HP capacity. 6. Rock drill 01 no. with 115.0 mm bit size. 7. Tippers 09 nos. with 15.0 Tonnes carrying capacity. 8. Water Tanker 01 no. with 10000 liters 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: 10.0 m.	Topsoil: 0.50 m to 1.0 m Mineral/Ore: 10.0 m.	-
3m	Total area covered under excavation/pits	55.17 Ha. Up to end of F.Y. 2024-25	48.60 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- 55.17 Ha. OB/Waste- Nil. Others- 2.72 Ha. Up to end of F.Y. 2024-25	Pit- 48.60 Ha. OB/Waste- Nil. Others- 2.37 Ha. Up to end of F.Y. 2023-24	-
3p	Production of ROM mineral during last five-year period, as applicable	Yr. 2019-20: 24,00,270.00 Tonnes Yr. 2020-21: 29,87,045.00	Yr. 2019-20: 22,51,000.000 Tonnes Yr. 2020-21: 15,70,000.000	-

		Tonnes Yr. 2021-22: 29,90,920.00 Tonnes Yr. 2022-23: 29,95,645.00 Tonnes Yr. 2023-24: 29,98,372.00 Tonnes	Tonnes Yr. 2021-22: 23,23,172.000 Tonnes Yr. 2022-23: 20,72,500.000 Tonnes Yr. 2023-24: 18,02,500.000 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 for restoration or rehabilitation of mined out area (Rule 32)	12484.00 CuM of generated topsoil will be utilized for plantation	5671.70 CuM topsoil has been generated and utilized for plantation.	-
5d	Total area fully reclaimed & rehabilitated	0.20 Ha. area will be utilized for plantation of 500 nos. of saplings along the mining lease boundary.	0.34 Ha. area has been utilized for plantation of 750 nos. of saplings along the safety zone of 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	750 nos. 0.34 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	-do-	-do-	-

	mines			
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 utilization of topsoil (Rule 32)	Proposal has been given in the approved document for separate removal and concurrent use of topsoil for the purpose of plantation.	Separate removal and the concurrent use of generated topsoil is being done.	-
8b	Concurrent use or storage of topsoil	12484.00 CuM of generated topsoil will be utilized for the purpose of plantation.	5671.70 CuM of generated topsoil has been utilized for the purpose of plantation.	-
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.	0.34 Ha. area has been utilized for plantation of 750 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.	750 nos. of saplings have been planted over 0.34 Ha. area.	-do-
8g	Survival rate	70%	Approx 80%	-
8h	Water sprinkling on	Proposal has been	Being done as	-

	roads to control airborne dust	given in the approved document for water sprinkling on roads to control airborne dust through the water tanker.	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 T. V. Satya Prasad. Geologist: Shri Janardhan Reddy.	Manager: Shri N. Chaitanya. Mining Engineer: Shri T. V. Satya Prasad. Geologist: Shri Janardhan Reddy.	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 48.60 Ha. OB/Waste- Nil. Others- 2.37 Ha.	Pit- 48.60 Ha. OB/Waste- Nil. Others- 2.37 Ha.	Nil.
9d	Scrutiny of Annual return on afforestation	Within ML: 750 nos. with 80% survival rate. Outside ML: 32 nos. with 60% survival rate.	Within ML: 750 nos. with 80% survival rate. Outside ML: 32 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.	ROM Closing Stock: Nil.	Nil.

		Cement Grade Limestone Closing stock: Nil.	Cement Grade Limestone Closing stock: Nil.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value: Rs. 350117600.00 Ex-mine Price: Rs. 194.24 Per Metric Tonne Cost of Production: Rs. 194.24 Per Metric Tonne	Sale value: Rs. 350117600.00 Ex-mine Price: Rs. 194.24 Per Metric Tonne Cost of Production: Rs. 194.24 Per Metric Tonne	Nil.
9i	Scrutiny of Annual return on fixed assets	Rs. 46527175/-	Rs. 46527175/-	Nil.
9k	Scrutiny of Annual return on mining machineries	1. Air compressor 01 no. with 450 CuM/Mn capacity. 2. Back Hoe 02 no. with 2.40 CuM bucket capacity 3. Dozer 01 no. with 176.0 HP capacity. 4. Explosive Van 01 no. with 2.605 Tonnes capacity. 5. Jeep/Tractor 01 no. with 40 HP capacity. 6. Rock drill 01 no. with 115.0 mm bit size. 7. Tippers 09 nos. with 15.0 Tonnes carrying capacity. 8. Water Tanker 01 no. with 10000 liters capacity	1. Air compressor 01 no. with 450 CuM/Mn capacity. 2. Back Hoe 02 no. with 2.40 CuM bucket capacity 3. Dozer 01 no. with 176.0 HP capacity. 4. Explosive Van 01 no. with 2.605 Tonnes capacity. 5. Jeep/Tractor 01 no. with 40 HP capacity. 6. Rock drill 01 no. with 115.0 mm bit size. 7. Tippers 09 nos. with 15.0 Tonnes carrying capacity. 8. Water Tanker 01 no. with 10000 liters 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**