

MCDR INSPECTION REPORT

File No. TS/LST-86/Hyd.

Mine Code: 38TNG08001

1	Name of the Inspecting Officer	Shaival Kartikeya
2	Designation	Senior Mining Geologist
3	Accompanying mine Official with Designation	Shri D. Kalyana Chakravarthy, General Manager (Mines)
4	Date of inspection	03-SEPT-2024
5	Previous inspection date	01-MARCH-2024

Part -I General Information

S. N.	Particulars	Details
1	Name of the Mine	Bhavanipuram Limestone Mine - III
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: 183.11 Ha. Non-Forest: Nil Total Lease Area: 183.11 Ha.
3	Mine code	38TNG14035
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/1029/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Deccan Cements Limited, "Deccan Chambers", 6-3-666/B, Somajiguda, Hyderabad (Telangana) – 500 082 Phone No. +91 (0) 40 – 23318366 Email: mines@deccancements.com
6	Village	Mahankaligudem
7	Taluk/Mandal	Palakaveedu
8	District	Suryapet
9	Pin code	508218
10	State	Telangana
11	Post office	Janpahad
12	Nearest police station	Palakaveedu
13	Nearest Railway station	Janpahad
14	Date of Grant of Mining Lease	G.O. Ms. 182 dated 16/12/2013
15	Date of Execution	28/12/2013 to 27/12/2043 (30 Years)
16	Date of opening of Mine	23/03/2015
17	Date of first Renewal, if applicable and its period & expiry	27/12/2033 to 27/12/2063 (20 Years) Supplementary lease deed for the extended period has been executed on 16/11/2016
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 Shonti Venkateswarlu, Director (Works), M/s Deccan Cements Limited, "Deccan Chambers", 6-3-666/B, Somajiguda, Hyderabad (Telangana) – 500 082 Phone No. +91 (0) 40 – 23318366 Email: venkat.s@deccancements.com Date of Appointment: 11/11/2019

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri N. Srinivas Raju V.P. (Works) M/s Deccan Cements Limited, Bhavanipuram, Janpahad P.O. Palakaveedu Mandal, Suryapet District, Telangana – 508218 Phone: +91 (0) 8683 – 229502 Email: srinivasaraju.n@deccancements.com Date of Appointment: 15/11/2019
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri D. Kalyan Chakravarthy, G.M. (Mines), M/s Deccan Cements Limited, Bhavanipuram, Janpahad P.O. Palakaveedu Mandal, Suryapet District, Telangana – 508218 Phone: +91 (0) 8683 – 229502 Email: chakravarthy.kalyan@deccancements.com Date of Appointment: 23/03/2015
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri D. Lakshmana Rao, M/s Deccan Cements Limited, Bhavanipuram, Janpahad P.O. Palakaveedu Mandal, Suryapet District, Telangana – 508218 Phone: +91 (0) 8683 – 229502 Email: mines@deccancements.com Qualification: Diploma in Mining & 1st Class Mines Manager's Certificate of Competency Experience: +25 Years Date of Appointment: 19/07/2023
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 V. Rambabu, M/s Deccan Cements Limited, Bhavanipuram, Janpahad P.O. Palakaveedu Mandal, Suryapet District, Telangana – 508218 Phone: +91 (0) 8683 – 229502 Email: mines@deccancements.com Qualification: M.Sc. (Geology) Experience: +6 Years Date of Appointment: 20/09/2023
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no. AP/NLG/MP/Lst-276-SZ-1737 dated 10/10/2013 Proposal Period: F.Y. 2013-14 to F.Y. 2017-18
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 approved vide letter no. AP/NLG/MP/Lst-73/Hyd. Dated 28/11/2022 Proposal period: 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. 2023-24	Actual work F.Y. 2023-24	Remarks
1a	Backlog of previous year	No proposal.	Nil.	The mining lease area has already been explored under G1 level.
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal.	Nil.	-do-
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 01.04.20...	Reserves and Resources as on 01/06/2024 Under (111): 72.249750 Million Tonnes Under (211): 15.822938 Million Tonnes	Reserves and Resources as on 01/06/2024 Under (111): 72.249750 Million Tonnes Under (211): 15.822938 Million Tonnes	Updated reserves and resources have been obtained from the recently approved Review of Mining Plan dated 30/07/2024 Average Grade: CaO: 43.60%, SiO ₂ : 13.02% and MgO: 0.41%
1f	General remarks of inspecting officer on geology, exploration etc.	The crescent shaped Cuddapah sedimentary basin is situated in the Eastern part of Dharwar craton in the combined Southern Andhra Pradesh. The area in question forms a part of Proterozoic Palnad Sub Basin which in turn occurs at the North Eastern end of the crescent of the main basin. Carbonate rocks belonging to the Narji Limestone formation of Kurnool Group (Cuddapah Super Group) occur in force in the area situated to the North of Krishna river in Nalgonda District, of which the subject leasehold forms a tiny part. The Kurnool group		

		overlies the rocks of Cuddapah Super Group which has an Archean basement comprising Peninsular Gneissic Complex with small to large enclaves of green stone belt. The Cuddapah Supergroup is separated from the basement rocks with a major unconformity known as Eparchean Unconformity. This area forms a part of Narji Limestone formations, Kurnool group of rocks. The general geological sequence of rock formations found in the lease area on the basis of field observations (marked on the geological plan) are as given below: -- Soil with or without soil 0-0.3 mts. -- Varigated Limestone.- 6-7 mts -- Steel Grey Limestone 5-11 mts - -- Gren Lime Stone 5-6 mts Purple Limestone
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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	In between UTM Co-ordinates N1848010 to N1848700 and E362870 to E363470	In between UTM co-ordinates: N1848125 to N1848700 and E362480 to E363430	Deviation has been pointed out. For compliance of the deviation Modified Mining Plan has been approved on 30/07/2024.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Topsoil: 01 no. OB/Waste: Nil. Mineral/Ore: 03 nos.	Topsoil: 01 no. OB/Waste: Nil. Mineral/Ore: 04 nos.	-do-
2c	Stripping ratio or ore to OB ratio	1 : 0.0	1 : 0.0	No OB/Waste generated during F.Y. 2023-24
2d	Quantity of topsoil generation in m3	32400.00 CuM	491.00 CuM	-
2e	Quantity of overburden generation in m3	No proposal.	Nil.	-
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	01 no.	01 no.	-

	for production			
3b	Quantity of ROM mineral production proposed	3500000.00 Tonnes	1834060.00 Tonnes	-
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: 3.0 m Depth: 8.0 m Explosive: AFNO	Diameter: 115.0 mm Spacing: 5.0 m Burden: 3.0 m Depth: 8.0 m Explosive: AFNO	-
3k	Provision of mining machineries in mineral benches	1. Hydraulic Excavator 05 nos. with 4.5 CuM (01 no.), 3.10 CuM (02 no.) and 1.50 CuM (02 no. Bucket capacity. 2. Dumpers 07 nos. With 35.0 CuM carrying capacity. 3. Rock Breaker 01 no. 4. Dozer 01 no. with 165 HP capacity. 5. Drilling Machine 02 no. with 115.0 mm bit size.	1. Hydraulic Excavator 02 nos. with 4.50 CuM (01 no.) and 3.10 CuM (01 no.) bucket capacity. 2. Dumpers 07 nos. with 60.0 Tonnes (02 nos) and 35.0 Tonnes (03 nos.) capacity. 3. Dozer 01 no. with 165 HP capacity. 4. Air Compressor 01	-

		5. Water Tanker 01 no. with 12000 Liters capacity.	no. with 483 CUM/MN capacity. 5. Blast Host Drill 01 no. with 115.0 mm bit size. 6. Explosive Van 01 no. with 3.310 Tonnes carrying capacity. 7. Water Tanker 01 no. with 12000 Liters capacity.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil: Bench Height: 0.50 m to 1.00 m Mineral/Ore: Bench Height: 7.0 M Bench Width: 10.0 M	Topsoil: Bench Height: 0.50 m to 1.00 m Mineral/Ore: Bench Height: 7.0 M Bench Width: 10.0 M	-
3m	Total area covered under excavation/pits	46.56 Ha. Up to end of F.Y. 2023-24	38.43 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 OB/Waste generated during F.Y. 2023-24
3o	Total area put in use under different heads at the end of year	Pit: 46.56 Ha. Waste/OB: Nil. Others: 15.07 Ha. As on 31/03/2024	Pit: 38.43 Ha. Waste/OB: Nil. Others: 0.20 Ha. As on 31/03/2024	-
3p	Production of ROM mineral during last five-year period, as applicable	Yr. 2019-20: 1801238.00 Metric Tonnes Yr. 2020-21: 2000025.00 Metric Tonnes Yr. 2021-22: 3417750.00 Metric Tonnes Yr. 2022-23: 4600125.00 Metric Tonnes Yr. 2023-24: 3500000.00 Metric Tonnes	Yr. 2019-20: 1423410.00 Metric Tonnes Yr. 2020-21: 1852690.00 Metric Tonnes Yr. 2021-22: 1600000.00 Metric Tonnes Yr. 2022-23: 1810400.00 Metric Tonnes Yr. 2023-24: 1834060.00 Metric 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.
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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)	Proposal has been given in the approved document for stacking of topsoil in between UTM co-ordinates N1848652 to N1848710 and E362201 to E362255	Topsoil has been stacked in between UTM co-ordinates N1848673 to N1848684 and E362221 to E362229	-
4b	Location of topsoil, OB & mineral reject dumps	Topsoil: In between UTM co-ordinates N1848652 to N1848710 and E362201 to E362255	Topsoil: In between UTM co-ordinates N1848673 to N1848684 and E362221 to E362229	-
4c	Number of dumps within lease area and outside lease area	Topsoil: 01 no. OB/Waste: Nil. Mineral/Ore: Nil.	Topsoil: 01 no. OB/Waste: Nil. Mineral/Ore: Nil.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	Nil.	-
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
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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)	No proposal.	Nil.	-
5d	Total area fully reclaimed & rehabilitated	0.68 Ha. area will be utilized for plantation of 1700 nos. of saplings at 7.5 m barrier zone.	0.68 Ha. area has been utilized for plantation of 1700 nos. of saplings at 7.5 m barrier zone.	-
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. 2021-22 has been submitted before due date.	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	No proposal.	Nil.	-

	water reservoir v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1700 nos. 0.68 Ha. By plantation.	1700 nos. 0.68 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 utilization of topsoil (Rule 32)	Proposal has been given in the approved document for removal of topsoil	Topsoil has been removed and staked in between UTM co-ordinates	-

		and stacking in between UTM co-ordinates N1848652 to N1848710 and E362201 to E362255	N1848673 to N1848684 and E362221 to E362229	
8b	Concurrent use or storage of topsoil	Proposal has been given in the approved document for use of topsoil for ground restoration.	Being done as per proposal.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal has been given in the approved document for removal of topsoil and stacking in between UTM co-ordinates N1848652 to N1848710 and E362201 to E362255	Topsoil has been removed and staked in between UTM co-ordinates N1848673 to N1848684 and E362221 to E362229	-
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)	F.Y. 2022-23: 0.68 Ha. area will be utilized for plantation of 1700 nos. of saplings.	F.Y. 2021-22: 0.68 Ha. area has been utilized for plantation of 1700 nos. of saplings.	Planation has been done along the 7.50 m barrier zone.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1700 nos. of saplings will be planted over 0.68 Ha. area.	1700 nos. of saplings have been planted over 0.68 Ha. area.	-do-
8g	Survival rate	90%	Approximate 100%	-
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 D. Kalyan Chakravarthy Mining Engineer: Shri D. Lakshmana Rao Geologist: Shri U. Amarnath	Manager: Shri D. Kalyan Chakravarthy Mining Engineer: Shri D. Lakshmana Rao Geologist: Shri U. Amarnath	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 38.43 Ha. Waste/OB: Nil. Others: 0.20 Ha.	Pit: 38.43 Ha. Waste/OB: Nil. Others: 0.20 Ha.	Nil.
9d	Scrutiny of Annual return on afforestation	Within lease area: 1700 nos. with 100% survival rate.	Within lease area: 1700 nos. with Approx. 90% 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	Closing Stock ROM: Nil. Graded Ore (Cement Grade): 43860.000 Metric Tonne	Closing Stock ROM: Nil. Graded Ore (Cement Grade): 43860.000 Metric Tonne	Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value: Rs. 352905800.00 Ex-mine Price: Rs. 197.00 Per Metric Tonne Cost of Production: Rs. 197.00 Per Metric Tonne	Sale value: Rs. 352905800.00 Ex-mine Price: Rs. 197.00 Per Metric Tonne Cost of Production: Rs. 197.00 Per Metric Tonne	Nil.
9i	Scrutiny of Annual return on fixed assets	Rs. 302771345.00	Rs. 302771345.00	Nil.

9k	Scrutiny of Annual return on mining machineries	1. Hydraulic Excavator 02 nos. with 4.50 CuM (01 no.) and 3.10 CuM (01 no.) bucket capacity. 2. Dumpers 07 nos. with 60.0 Tonnes (02 nos) and 35.0 Tonnes (03 nos.) capacity. 3. Dozer 01 no. with 165 HP capacity. 4. Air Compressor 01 no. with 483 CUM/MN capacity. 5. Blast Host Drill 01 no. with 115.0 mm bit size. 6. Explosive Van 01 no. with 3.310 Tonnes carrying capacity. 7. Water Tanker 01 no. with 12000 Liters capacity.	1. Hydraulic Excavator 02 nos. with 4.50 CuM (01 no.) and 3.10 CuM (01 no.) bucket capacity. 2. Dumpers 07 nos. with 60.0 Tonnes (02 nos) and 35.0 Tonnes (03 nos.) capacity. 3. Dozer 01 no. with 165 HP capacity. 4. Air Compressor 01 no. with 483 CUM/MN capacity. 5. Blast Host Drill 01 no. with 115.0 mm bit size. 6. Explosive Van 01 no. with 3.310 Tonnes carrying capacity. 7. Water Tanker 01 no. with 12000 Liters capacity.	Cross verified from the machinery logbooks.
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Details of violations observed during current inspection and compliance position of earlier violation pointed out:

No outstanding violations.

(Name of inspecting officer with designation and date)

Shaival Kartikeya
Senior Mining Geologist
Date of Inspection 03/09/2024