

## MCDR INSPECTION REPORT

File No. TS/LST-25/Hyd. Vol. III

Mine Code: 38APR14035

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	04-SEPT-2024
5	Previous inspection date	09-JUNE-2023

### Part -I General Information

S. N.	Particulars	Details
1	Name of the Mine	Bhavanipuram Limestone Mine - II
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: 73.93 Ha. Non-Forest: Nil Total Lease Area: 73.93 Ha.
3	Mine code	38APR14035
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. 15 dated 06/01/2000
15	Date of Execution	09/01/2000 to 08/02/2020 (20 Years)
16	Date of opening of Mine	07/08/2000
17	Date of first Renewal, if applicable and its period & expiry	09/01/2020 to 08/01/2023 (30 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: 08/02/2012
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri A. V. Suresh Babu, 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: AMIE (Mining) Experience: +17 Years Date of Appointment: 01/04/2020
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 A. 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: +13 Years Date of Appointment: 01/04/2020
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/LST/MPMS-24-SZ dated 22/04/1999 Proposal Period: 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.	Review of Mining Plan approved vide letter no. AP/NLG/MP/Lst-73/Hyd. Dated 14/10/2024 Proposal period: 2025-26 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. 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 01/07/2024  Under (111): 12.306000 Million Tonnes  Under (211): 4.800777 Million Tonnes	Reserves and Resources as on 01/07/2024  Under (111): 12.306000 Million Tonnes  Under (211): 4.800777 Million Tonnes	Updated reserves and resources have been obtained from the recently approved Review of Mining Plan dated 14/10/2024  Average Grade: CaO: 44.52%, MgO: 0.50%. SiO2: 11.15%
1f	General remarks of inspecting officer on geology, exploration etc.	In the lease covering 73.93 Ha, towards the Eastern boundary outcrops of limestone, manifesting assorted colours viz., buff, cream, light grey, green, greyish green, chocolate brown etc. These limestone beds are grouped and christened as variegated limestone. This litho-unit occurs immediately overlying the steel grey limestone. This depositional feature is characteristic of the entire palnad basin in Suryapet District, (TS), North of Krishna River. Out crops of steel grey to dark grey limestone occurs in force in the rest of the mining lease area. In the sub surface provides,		

		<p>however, green limestone followed by purple argillaceous limestone occurs immediately below the grey limestone. All the limestone units are transitional into one another. The limestone beds have a general NE / SW trend with very low (greater than 5 degree) South Easterly dip. The beds in a major part of the area are sub-horizontal. Strike and dip joints present in them are more or less vertical in their disposition. The limestone formation is part of the regional Narji limestone. These are essentially four litho units present in the mining lease area with no structural disturbance.</p> <p>Their order of supreme position is Thin cap of top soil : 0-2.00 m, Soil to Dark Grey Limestone 2.00 - 14.0 m, Grey to Green limestone 14.00 - 30.0 m, Purple Shale Depth / thickness not known.</p> <p>The crescent shaped cuddapah sedimentary basin is situated in the eastern part of the Dharwar Craton in the combined southern Andhra Pradesh. The area in question forms a part of proterozoic paland sub-basin which in turn occurs at the northern end of the crescent of the main basin. Carbonate rocks belonging to the Narji limestone formation of Kurnool group (cuddapah Super-group) occurs in force in the area situated to the north of the Krishna river in the Nalgonda district, of which subject leasehold forms a tiny part. The stratigraphy of Kurnool group in the Paland sub-basin is as follows</p> <p>Formation Lithology Age  Nandayal Fm. Shales, Limestones Koilkuntla Fm. Limestone with Shales Upper proterozoic Paniam Fm. Quartzite Owk Fm. Shales Narji Fm. Massive Limestone, Flaggy Limestone Banganapalle Fm. Quartzite with Conglomerate Cumbum Fm. Shales with Phyllite quartzite dolomite/limestones Barenkonda Fm. Quartzite</p> <p>The Kurnool Group overlies the rocks of the Cuddapah Supergroup which has an Archaean basement comprising Peninsular Gneissic Complex with small to large enclaves of greenstone belts. The Cuddapah Supergroup is separated from the basement rocks with a major unconformity known as Eparachean unconformity.</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	In between UTM co-ordinates: N1848010 to N1848530 and E363434 to E363472	In between UTM co-ordinates: N1848320 to N1848204 and E361861 to E362096	Deviation has been pointed out. For compliance of the deviation

				Modified Mining Plan has been approved on 27/07/2023.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Topsoil: Nil. OB/Waste: Nil. Mineral/Ore: 04 nos.	Topsoil: Nil. OB/Waste: Nil. Mineral/Ore: 04 nos.	-
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	No proposal.	Nil.	-
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 for production	01 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	300150.00 Tonnes	135294.00 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	No proposal.	Nil.	-

	beneficiation study proposed & carried out for sub-grade mineral and reject			
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 03 nos. with 2.10 CuM (01 no.), 1.80 CuM (01 no.) and 1.70 CuM (01 no. Bucket capacity. 2. Dumpers 02 nos. With 14.0 CuM carrying capacity. 3. Rock Breaker 01 no. 4. Dozer 01 no. with 165 HP capacity. 5. Drilling Machine 01 no. with 115.0 mm bit size.	1. Hydraulic Excavator 01 nos. with 1.5 CuM bucket capacity. 2. Dumpers 02 nos. with 35.0 Tonnes capacity. 3. Dozer 01 no. with 165 HP capacity. 4. Air Compressor 01 no. with 140 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	Mineral/Ore: Bench Height: 7.0 M Bench Width: 14.0 M	Mineral/Ore: Bench Height: 7.0 M Bench Width: 14.0 M	-
3m	Total area covered under excavation/pits	63.74 Ha. Up to end of F.Y. 2023-24	63.74 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	Pit: 63.74 Ha. Waste/OB: Nil.	Pit: 63.74 Ha. Waste/OB: Nil.	-

	the end of year	Others: 6.96 Ha. As on 31/03/2024	Others: 1.888 Ha. As on 31/03/2024	
3p	Production of ROM mineral during last five-year period, as applicable	Yr. 2019-20: 1200195.00 Metric Tonnes Yr. 2020-21: 300150.00 Metric Tonnes Yr. 2021-22: 300150.00 Metric Tonnes Yr. 2022-23: 300150.00 Metric Tonnes Yr. 2023-24: 300150.00 Metric Tonnes	Yr. 2019-20: 320000.00 Metric Tonnes Yr. 2020-21: 185000.00 Metric Tonnes Yr. 2021-22: 289500.00 Metric Tonnes Yr. 2022-23: 110000.00 Metric Tonnes Yr. 2023-24: 135294.00 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.		

#### 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 mineral in between UTM co-ordinates N1848100 to N1848215 and E362150 to E362210	25566.00 Tonnes of cement grade limestone has been stacked in between UTM co-ordinates N1848100 to N1848215 and E362150 to E362210	-
4b	Location of topsoil, OB & mineral reject dumps	Mineral Stack: In between UTM co-ordinates N1848100 to N1848215 and E362150 to E362210	Mineral Stack: In between UTM co-ordinates N1848100 to N1848215 and E362150 to E362210	-
4c	Number of dumps within lease area and outside lease area	OB/Waste: Nil. Mineral/Ore: 01 no.	OB/Waste: Nil. Mineral/Ore: 01 no.	-
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	No proposal.	Nil.	-

	stabilized			
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)	No proposal.	Nil.	-
5d	Total area fully reclaimed & rehabilitated	0.166 Ha. area will be utilized for plantation of 415 nos. of saplings at 7.5 m barrier zone.	0.166 Ha. area has been utilized for plantation of 553 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)	No proposal.	Nil.	-



	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			
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	415 nos. 0.166 Ha. By plantation.	553 nos. 0.166 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)	No proposal.	Nil.	-
8b	Concurrent use or storage of topsoil	No proposal.	Nil.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal has been given in the approved document for stacking of mineral in between UTM co-ordinates N1848100 to N1848215 and E362150 to E362210	25566.00 Tonnes of cement grade limestone has been stacked in between UTM co-ordinates N1848100 to N1848215 and E362150 to E362210	-
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: 0.166 Ha. area will be utilized for plantation of 415 nos. of saplings.	F.Y. 2021-22: 0.166 Ha. area has been utilized for plantation of 446 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)	415 nos. of saplings will be planted over 0.166 Ha. area.	553 nos. of saplings have been planted over 0.166 Ha. area.	-do-
8g	Survival rate	No proposal.	Approximate 70%	-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads to control	Being done as per proposal.	-

		airborne dust through the water tanker.		
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 A. V. Suresh Babu  Geologist: Shri A. Ram Babu	Manager: Shri D. Kalyan Chakravarthy  Mining Engineer: Shri A. V. Suresh Babu  Geologist: Shri A. Ram Babu	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 63.74 Ha. Waste/OB: Nil. Others: 1.888 Ha.	Pit: 63.74 Ha. Waste/OB: Nil. Others: 1.888 Ha.	Nil.
9d	Scrutiny of Annual return on afforestation	Within lease area: 415 nos. with 100% survival rate.	Within lease area: 553 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: 25566.00 Metric Tonnes  Graded Ore (Cement Grade): 25566.00 Metric Tonne	Closing Stock  ROM: 25566.00 Metric Tonnes  Graded Ore (Cement Grade): 25566.00 Metric Tonne	Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value: Rs. 44100000.00  Ex-mine Price: Rs. 300.00 Per	Sale value: 44100000.00  Ex-mine Price: Rs. 300.00 Per Metric	Nil.

		Metric Tonne	Tonne	
		Cost of Production: Rs. 300.00 Per Metric Tonne	Cost of Production: Rs. 300.00 Per Metric Tonne	
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 01 nos. with 1.5 CuM bucket capacity. 2. Dumpers 02 nos. with 35.0 Tonnes capacity. 3. Dozer 01 no. with 165 HP capacity. 4. Air Compressor 01 no. with 140 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 01 nos. with 1.5 CuM bucket capacity. 2. Dumpers 02 nos. with 35.0 Tonnes capacity. 3. Dozer 01 no. with 165 HP capacity. 4. Air Compressor 01 no. with 140 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.

**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 04/09/2024**