

**Indian Bureau of Mines**  
**Minerals Development and Regulation Division**  
**MCDR Inspection Report**  
**Hyderabad Regional Office.**

**Mine File No: AP/GNR/LST-20/HYD**

**Mine Code: 38APR07001**

1) Name of Inspecting officer:	<b>Shri. M.K. Kalmata</b>
2) Designation	Regional Mining Geologist
3) Accompanying mine official with designation	Mr.Bapanna Narasimhulu, Mines Manager.
4) Date of Inspection	09.02.2024

**Part-I: General**

S.No.	Particulars	Details
1	Name of the Mine	DCW Limestone Mine.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	170.22Ha (Non-forest)
3	Mine code	38APR07001
4	IBM Registration Number under rule 45 of	IBM/10168/2012
5	Name of the lessee, Address, phone, email and fax number	M/s. Andhra Cements Limited., Durga Cement WorksDurgapuram, Srinagar post, Dachepalli, Ph:- 08649257441, E-mail:- acldcw.mines@gmail.com
6	Village	Gamalapadu
7	Taluka/Mandal	Dachepalli
8	District	Palnadu
9	Pin code	522414
10	State	Andhra Pradesh
11	Post office	Dachepalli
12	Nearest police station	Dachepalli
13	Nearest Railway station	Dachepalli
14	Date of Grant of Mining Lease	05-10-1977
15	Date of Execution	19.08.1978
16	Period	50 years, Valid up to 31-03-2030 (The mine is captive mine and lease period is extended as per section 8A(3) of MMDR

17	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Name Sammidi Sreekanth Reddy, Plot No 111, Road No 10, Jubilee Hills, Hyderabad -500033. Phone: 9848090286 Email : sreekanth@sagarcements.in
18	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri P.Biksha Reddy, M/s. Andhra Cements Limited., Durga Cement WorksDurgapuram, Srinagar post, Dachepalli, D.O.A:-15-03-2023. Ph: 9989662167 Email : pbikshareddy@yahoo.co.in
19	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines, qualification	Mr.B.Narasimhulu,, M/s. Andhra Cements Limited., Durga Cement WorksDurgapuram, Srinagar post, Dachepalli, . D.O.A:-08-01-2015. Ph: 9441344224 Email : bheemraj@ramcocements.co.in
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	<b>Mining Engineer</b> : .Mr.B Narasimhulu <b>Qualification:</b> AMIE inMining D.O.A.: 13.11.2015 <b>Geologist</b> : J.Srikanth <b>Qualification:-</b> Msc, Geology. <b>DOA</b> : 20.04.2023
21	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Latest approved document Modified Mining plan AP/GNR/MP/Lst-9//Hyd, dt:- 07-03-2024 for the period 2023-24 to 2026-27(Block period 2022-23 to 2026-27).
22	Name of the Mineral	Limestone
23	Method of Mining(Open cast, Underground)	Open cast
24	Category (Fully Mechanized, Others or Manual)	Category – A (Fully Mechanized)
25	Captive/Non Captive	Captive

**PART-II****Exploration :**

<b>Sl. No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
1a	Backlog of previous year	None in the year 2023-24.	None in the year 2023-24.	Total lease area is 170.22ha, out of which about 122.24 ha is explored under G-1 level. Proposal is given to explore remaining area under G-1 level from 2024-25 onwards.
1b	Exploration over lease area for geological axis 1 or 2	None in the year 2023-24.	None in the year 2023-24.	However, proposal is given to convert G-3 and G-2 level exploration under G-1 from the year 2024-25 onwards. The area falling in the safety barrier of Nallah is not explored so far due to difficult to reach the drilling location. Now lessee has proposed exploration in the said area from 2024-25 onwards.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None in the year 2023-24.	None in the year 2023-24.	Total 88 boreholes were drilled from 1986 to 2017 by ACC ltd and Jaypee

				Groups and expenditure incurred on exploration is Rs:- 2629973.
1d	Balance area to be explored to bring Geological axis in 1 or 2	None in the year 2023-24.	None in the year 2023-24.	Proposal is given to explore 47.98ha area which is presently under G-2 and G-3 level (safety barrier of Nallah) to Go-1 level from 2024-25 onwards.
1e	Balance reserves as on 01/04/2017	Reserves/resources as per the approved document dated 23-05-2023 are as follows. As on 01.04.2023 (in million tonnes) Proved Mineral Reserves (111) - 69.440 Probable M Reserves (122) - 8.103 Pre-Feasibility M Resources (222) - 36.124 Total:- 113.667	Reserves/resources are re-estimated as per MCMC Rules 2015 and details of updated reserves/resources are as follows (As on 15-02-2024) (Million tonnes) Proved M Reserves (111) - 74.006 Probable M Resources (122) - 3.180 Pre-feasibility M resources - 29.132, Pre-feasibility M resources(222) - 2.704 Total:- 109.022	Reserves/resources were properly re-estimated under different codes of UNFC as per MEMC Rules 2015.

1f	General remarks of inspecting officers on geology, exploration etc.		The limestone deposit within the mining lease area forms a part of Proterozoic Palnad Basin equivalent of Nargi limestone formation of Kurnool Group. These sedimentary carbonate rocks or Nargi limestone formation are subdivided into several distinct lithological units. Top soil occurs as a creep, White Limestone, Green Limestone, Light Grey Limestone, Dark Grey Limestone. The general strike of the formation is N 25 E-S 25 W and dip 3 to 7 degree towards SE.	Total lease area is 170.22ha, out of which about 122.24 ha is explored under G-1 level. Proposal is given to explore remaining area under G-1 level from 2024-25 onwards. Total 88 exploratory boreholes were drilled covering a total meterage of 2270.
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<b>Development :</b>				
<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
2a	Location of development w.r.t. lease area	In the year 2023-24 (As per approved document dt:23-05-2023), there was a proposal to work between the coordinates N 1841900 to 1842735 and E 361635 to 362430 in	Working has been carried out between the coordinates N 1841730 to 1842700 and E 361660 to 362250 in pit No-1 and N 1841060 to 1841300 & E 363000 to 363120 in pit.	Working has been carried out within the proposed coordinates but not as per the proposals. However, lessee has submitted draft MMP for approval

		Pit-1 and N 1841060 to 1841280 and E 363000 to 363160 in PitNo-2.		and in which revised proposals were given, so, no violation is pointed out for deviation in workings.
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	None.	None.	Benches exist in mineral only.
2c	Stripping ratio of ore to OB ratio	1:0	1:0	No OB generation is proposed in the present plan period.
2d	Quantity of topsoil generation in m <sup>3</sup>	None.	None.	
2e	Quantity of overburden generation in m <sup>3</sup>	None.	None.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.		Working is proposed in two pits to manage the quality of the ore. Bench parameters are kept within the proposed limits. No OB and topsoil generation is proposed in the present plan period and benches are existing in mineral	

only.

**Exploitation :**

<b>Sl.N o.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
3a	Number of pit proposed for production	Two pits	Two pits	Dimension of the pits are as follows: pit no1:- 930m9L) X 545.16 m(W) X 30m (H) and PitNo-2:- 840m (L) X 317.85m 9w) X 24m(H)
3b	Quantity of ROM mineral production proposed	943566 tonnes in the year 2023-24. (783566T actual production up to feb 24 + 160000T proposal for the month of march 2024, as per the approved document dated 07-03-2024)	783566 tonnes in the year 2023-24 (Up to Feb-2024)	
3c	Recovery of saleable / usable mineral from ROM production	100%	100%	Entire ROM removed is dispatched to captive plant linked with the mine.
3d	Quantity of mineral reject generation	None.	None.	
3e	Grade of mineral rejects generation and threshold	Not applicable.	Not applicable	

	value declared.			
3f	Quantity of subgrade mineral generation.	None.	None.	
3g	Grade of subgrade mineral generation.	Not applicable.	Not applicable	
3h	Manual / Mechanized method adopted for segregating from ROM	None within the lease area	None within the lease area	Lessee is not doing any processing at mine site and sending ROM to crushing plant located outside the lease area by paying royalty for size reduction.
3i	Any analysis or beneficiation study proposed and carried out for subgrade mineral and rejects	None.	None.	Lessee is doing only size reduction outside the lease area.
3j	Provision of drilling and blasting in mineral benches	Yes, proposed deep hole drilling and blasting.	Lessee is doing drilling and blasting as per the proposal.	Using drilling machine of 115mm capacity for drilling blast holes and loose ammonium nitrate slurry explosive for blasting.

3k	Provision of mining machineries in mineral benches	Yes proposed combination of Excavators and tippers.	Using Excavators of 3.1 CUM capacity-02 nos. and tippers of 33 CUM capacity - 10 nos. in the mineral benches.	Additionally lessee is using dozer for haul road repair work of rock drilling machine of 115mm for drilling blast holes.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 8.00 mtr bench in Mineral.	6 to 8 mtr bench height is maintained.	The bench height proposed and maintained is suitable for the nature of the deposit and method of mining adopted.
3m	Total area covered under excavation / pits	Area under Mining- 77.45Ha	Area under Mining- 77.45Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No OB generation is proposed in the present plan period.
3o	Total area put in use under different heads at the end of year	Area under Mining- 77.45Ha, Infrastructure- 3.05Ha, safety bund- 1.12Ha.	Area under Mining- 77.45Ha, Infrastructure- 3.05Ha, safety bund- 1.12Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2023-24 - 943566T 2022-23 - NIL 2021-22 -3000000T 2020-21 -3000000T 2019-20 - 3000000T	2023-24 -783566T 2022-23 - NIL 2021-22 -NIL 2020-21 -NIL 2019-20 - 428100T	Mine was not in operation due to financial sickness of the company.

3q	General remarks of inspecting officers on method of mining etc.		The mine is working by opencast mechanized method. Lessee doing deep hole drilling and blasting for loosening the strata and using combination of excavators and dumpers for production and development.	
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**Solid Waste Management - Dumping :**

<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33)	None in the year 2023-24.	None in the year 2023-24.	No topsoil and waste generation is proposed in the present five year block period 2022-23 to 2026-27.
4b	Location of topsoil, OB and mineral reject dumps	None.	None.	Topsoil and waste rocks generation was not proposed and handled.
4c	Number of dumps within lease area and outside of lease area	None.	None.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None.	None.	No dumps are existing within the lease area.

4e	Number of active and alive dumps.	None.	None.	No dumps are existing within the lease area.
4f	Number of dead dumps.	None.	None.	No dumps are existing within the lease area.
4g	Number of dumps established.	None.	None.	No dumps are existing within the lease area.
4h	Whether retaining wall or garland drains all along dumps are there.	None.	None.	
4i	Length of retaining wall or garland drain all along dumps.	None.	None.	
4j	Number of settling ponds	None.	None.	
4k	Specific comments of inspecting officers on waste dump management .		No waste rock is topsoil handled in the present plan period and no dumps are existing within the lease area.	
<b>Solid Waste Management - Backfilling :</b>				
<b>Sl.N o.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>

5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Not proposed.	Nil	No backfilling is proposed in the present plan period.
5b	Area under backfilling of mined out area	Not proposed.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed.	Nil	
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Present working is not reached up to the proved depth and no proposals were made for reclamation and rehabilitation in the present plan period.	
<b>Progressive Mine Closure Plan :</b>				
<b>Sl.N o.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
6a	Whether Annual report on	Before 1st July of every year.	Submitted yearly report on PMCP within the prescribed time	PMCP report submitted on 28.06.2023 along

	PMCP submitted on time and correctly. Rule 26(2)		limit.	with the Annual returns submitted for the year 2022-23.
6b	Area available for rehabilitation (ha)	None.	None	
6c	Afforestation done (ha)	1.0Ha in the year 2023-24.	1.13Ha in the year 2023-24	
6d	No. of saplings planted during the year	1500 saplings in the year 2023-24.	2333 saplings in the year 2023-24	
6e	Cumulative no. of plants	20080 saplings up to 2023-24	31718 saplings from start of the mine to 2023-24.	Total area covered by plantation is 12.25Ha.
6f	Any other method of rehabilitation	None.	None	
6g	Cost incurred on watch and care during the year	None	2.0lakh approximately	For watch and care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (LxBxD)	Nil	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any	Nil	Nil	

	other specific means.			
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil	
6o	Compliance of rehabilitation of waste land within lease (ii) Method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, Air, Water and Noise monitoring was proposed in Core and Buffer zone.	Environmental monitoring in the core and buffer zone is carried out as per the proposal and results are within permissible limits.	B S Envirotech, Hyderabad.
6q	General remarks of inspecting officers on PMCP		Against the proposal of 1500 lessee has planted 2333 saplings in the year 2023-24.	

	compliance and progressive closure operations etc.		Further, Environmental monitoring is carried out as per the proposal and results are within the permissible limits.	
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**Mineral Conservation:-**

<b>Sl.N o.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
7a	ROM mineral dispatch or grade wise sorting within lease area	Proposed dispatch of Cement grade ROM to Captive Cement Plant.	Lessee is dispatching Cement grade ROM to Captive plant as proposed.	Lessee is not doing any processing at mine site.
7b	Method of grade wise mineral sorting i.e. manual or mechanical	None.	None.	Sending ROM to Crushing plant existing outside the lease area by paying Royalty for size reduction and from crusher sending material to Captive Cement plant .
7c	Different grade of mineral sorted out at mines	Cement Grade.	Cement Grade.	
7d	Any beneficiation process at mines	None.	None.	Sending ROM to Crushing plant existing outside the lease area by paying Royalty for size reduction and

				from crusher sending material to Captive Cement plant.
7e	General remarks of inspecting officers on mineral conservation and beneficiation issues.		Lessee is not doing any mineral processing at the mine site & Sending ROM to Crushing plant existing outside the lease area by paying Royalty for size reduction and from crusher sending material to Captive Cement plant.	

**Environment:-**

Sl.No	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	None	None	No topsoil and waste generation is proposed in the present five year block period 2022-23 to 2026-27.
8b	Concurrent use or storage of topsoil	None	None	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule	None	None	

	33)			
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use	None.	None.	
8e	Phased restoration, reclamation and rehabilitation of land affected by mining operations (pits, dumps etc.)	None.	None.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information was furnished in the mining plan. Additional plantation proposals are being given in the Mining Plan documents.	Additionally lessee has planted about 31718 saplings so far within the lease area.	
8g	Survival rate	None.	85 to 90%	Lessee is taking care of plantation by regular monitoring by engaging

				manpower.
8h	Water sprinkling on roads to control airborne dust	Yes proposed.	Regularly spraying water on the working benches, Haul road etc.	One water tanker of 10,000 ltr capacity is in use for dust suppression.
8i	General remarks of inspecting officers on aesthetic beauty in and around mine areas.		About 77.45 Ha is degraded by pits. Benches were maintained systematically. Plantation is made in the safety zone and safety barrier of nallah.	

**Compliance of Rule 45 :**

<b>Sl.N o.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
9a	Status of submission of monthly and annual returns	A monthly return shall be submitted before the tenth day of every month in respect of the preceding month and an annual return shall be submitted before the 1st day of July each year for the preceding financial year.	Submitting Monthly and Annual returns within the time limit.	Submitted Annual returns for the year 2022-23 on 28-06-2023.
9b	Scrutiny of Annual return for information on Mining Engineer,	As per the annual returns submitted for the year 2022-23, details of Mining Engineer and	The information furnished in the AR submitted for the year 2022-23 is found	

	Geologist and Manager	Geologist are as follows. Mining Engineer:- Mr.Bapana Narasimhulu. Geologist:- None. Mines Manager:- Mr.Bapana Narasimhulu.	correct.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under current workings:-71.980, Infrastructure- 3.23Ha, Others (bunds) 1.12Ha.	The information furnished in the AR submitted for the year 2022-23 is found correct.	However, the land use details as on 01.01.2024 is as follows. Area under Mining- 77.45Ha, Infrastructure- 3.05Ha, safety bund-1.12Ha.
9d	Scrutiny of Annual return on afforestation	None.	None.	The mine was not working and no plantation was made in the year 2022-23.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None.	None	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No production and dispatch is shown in the AR submitted for the year 2022-23 and opening and closing	The information furnished in the AR submitted for the year 2022-23 is found	

		stock under cement grade is shown as 42400 tonnes.	correct.	
9g	Scrutiny of Annual return on Sale value, Ex Mine price and production cost	Sale value, ex-mine price and cost of production is mentioned as zero.	No production and dispatch has been carried out in the year 2022-23.	The information furnished in the AR submitted for the year 2022-23 is found correct.
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset is mentioned Rs 13814340	The information furnished in the AR submitted for the year 2022-23 is found correct.	
9k	Scrutiny of Annual return on mining machineries	Only Rock drill machine and Jeep are shown.	The information furnished in the AR submitted for the year 2022-23 is found correct.	The mine was not working in the year 2022-23, so no machineries were kept in the mine. However, the mine is working presently and Excavators and tippers were observed on the day of inspection.

Date:-

(KALMATA.M.K)

Indian Bureau of Mines