

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

**Mine File:** AP/NLG/Lst-8/Hyd., Vol-II

**Mine Code:** 38APR14022

1) Name of Inspecting officer:	<b>Kalmata.M.K</b>
2) Designation	Regional Mining Geologist
3) Accompanying mine official with designation	Sri. V.Subramanyam, Asst. Vice President Mines, VV Krishna Reddy, DGM Mines ,Md Nayeem, Sr.Mgr Geology
4) Date of Inspection	<b>03.10.2024</b>
5) Date of Previous Inspection	<b>28.05.2024</b>

**Part-I: General**

S.No.	Particulars	Details
1	Name of the Mine	Sagar Cements Limestone Mine – 2(Amareshwari)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	143.72 Ha (Government Non Forest Land)
3	Mine code	38 APR 14022
4	IBM Registration Number under rule 45 of	
5	Name of the lessee, Address, phone, email and fax number	SAGAR CEMENTS LIMITED Pedaveedu (V), Mattampally(M) Suryapet (Dist),Telangana(State), Phone : 08683 - 247039 Fax : 08683 - 247029 subramanyamv@sagarcements.in
6	Village	Pedaveedu
7	Taluka/Mandal	Huzurnagar
8	District	Suryapet
9	Pin code	508204
10	State	Telangana
11	Post office	Mattampally
12	Nearest police station	Mattampally
13	Nearest Railway station	Miryalaguda
14	Date of Grant of Mining Lease	Initial Grant of Lease on : 24.06.1985
15	Date of Execution	31.10.1985

16	Period	50 Years 31.10.1985 to 30.10.2035
17	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri. S.Sreekanth Reddy, Plot.No.111,Road No.10, Jubilee hills, Hyderabad,500033 040 23351571, <a href="mailto:info@sagarcements.in">info@sagarcements.in</a> Date of appointment: 17-10-2012.
18	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri. M.V RAMANA MURTHY Pedaveedu(Vill.),Mattampally(M), Suryapet(Dist),Telangana(State) Phone : 08683 - 247039 <a href="mailto:mvmurthy@sagarcements.in">mvmurthy@sagarcements.in</a> 01.11.2021
19	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines, qualification	Sri V V Krishna Reddy Pedaveedu(Vi),Mattampally(M), Suryapet(Dist),Telangana(State) Phone : 08683 - 247039 <a href="mailto:krishnavv@sagarcements.in">krishnavv@sagarcements.in</a> 10.03.2019
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	Sri. Samula Pavan Kumar Reddy (B. Tech Mining) Pedaveedu(V),Mattampally(M), Suryapet(Dist),Telangana(State) Phone : 08683 - 247039 <a href="mailto:pavansamula@sagarcements.in">pavansamula@sagarcements.in</a> 14/12/2023 <b>And</b> K Jagannadha Rao ,Msc Geology Pedaveedu (V), Mattampally (M) Suryapet (Dist.), Telangana (State) <a href="mailto:jagannadharao.k@sagarcements.in">jagannadharao.k@sagarcements.in</a> 23/12/2021

21	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<p>1) Modified MP approval Ltr. No. AP/NLG/MP/Lst-39/HYD dated 25.03.2021. (25.03.2021 to 2024-25) &amp;</p> <p>2) Another MMP approval Ltr No. AP/NLG/MP/Lst-39/HYD dated 21.11.2023. (21.11.2023-24 to 2024-25) &amp;</p> <p>3) RMP AP/NLG/MP/LST-39/Hyd, dated 23-10-2024, for the five year block period (2025-26 to 2029-30)</p>
22	Name of the Mineral	Limestone
23	Method of Mining(Open cast, Underground)	Open Cast
24	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
25	Captive/Non Captive	Captive

<b>PART-II</b>				
<b>Exploration :</b>				
<b>Sl. No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
1a	Backlog of previous year	No exploration was proposed in the year 2023-24.	However, lessee has drilled 07 boreholes in the year 2023-24.	There was a proposal to drill 23 boreholes in the year 2024-25 (Approved MMP dated 21-11-2023). Due to availability of drilling machine few boreholes were drilled in the year 2023-24.
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed in the year 2023-24.	07 boreholes were drilled to cover entire Mineralized area under G-1 level.	Earlier, entire area was explored under G-1 level, however, after DGPS survey the lease shape was changed and few

				boreholes which are near to lease boundary were disturbed, So lessee has again proposed exploration in the year 2024-25 and drilled 07 boreholes in the year 2023-24.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration was proposed in the year 2023-24.	In the year 2023-24, exploration is carried out by lessee only and expenditure incurred on exploration is Rs 8, 57,150.	Lessee has drilled 107 exploratory boreholes so far and expenditure incurred on said exploration is Rs 28,91,057
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration was proposed in the year 2023-24.	About 20 ha is converted under G-1 level from unexplored area.	Earlier, entire mineralized area was explored under G-1 level, however after DGPS survey the lease shape was changed and some of the boreholes which were inside the lease area (Near boundary) are disturbed. So, lessee has again proposed few boreholes to explore entire mineralized area under G-1 in the Grid pattern as per

				the MEMC rules 2015 applicable to nature of the deposit.
1e	Balance reserves as on 01/04/2017	As per the approved MMP dated 21-11-2023 status of reserves/resources is as follows (As on 01-10-2023) (In million tonnes) Proved M Reserves (111) 59.212, Pre-feasibility M Resources (221) 16.205 Inferred m resources (333) 1.156 Total:- 76.573	Reserves/resources as on 01-04-2024 is as follows : (In million tonnes) Proved M Reserves (111) 58.910, Pre-feasibility M Resources (221) 16.205 Inferred m resources (333) 1.156 Total:- 76.271	Reserves/resources were updated by depleting 302109 tonnes of ROM production achieved during the period October 23 to March 2024

1f	General remarks of inspecting officers on geology, exploration etc.		The rock type exposed in the ML area belongs to the Narji Formation of the Kurnool Group of Proterozoic age. The lithological succession is as furnished below; 1. Soil, 2. Light Grey Limestone -Youngest, 3. Grey Limestone, 4. Green Limestone, 5. Purple Flaggy Limestone 6. Shale. Cao% of Limestone varies from +34 to 46.9. The strike of the formation is N 31 E-S 31W and dip 55 to 60 degree towards SE.	Total lease area is 143.72 Ha and entire area is explored under G-1 level, by drilling 107 exploratory boreholes to a total depth of 2490 mtrs.
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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 there was a proposal to produce limestone between the co-ordinates <b>N1851570 to N 1851850 &amp; E 377050 to E 377270</b> (Eastern side of the lease area) and some bench dressing was proposed in the Northern side of the	In the year 2023-24 working is carried out between the co-ordinates n 1851610 to N 1851850 & E 377080 to E377250	The production achieved in only 72% in the year 2023-24 and working is carried out within the proposed area only.

		lease .		
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	Benches were proposed in ore only.	Benches are existing in ore only.	No topsoil or OB is existing in the proposed working area. And existing benches are in ore only.
2c	Stripping ratio of ore to OB ratio	1:0	1:0	No OB is existing in the proposed working area.
2d	Quantity of topsoil generation in m <sup>3</sup>	None in the year 2023-24.	None in the year 2023-24.	No topsoil generation is proposed in the present plan period.
2e	Quantity of overburden generation in m <sup>3</sup>	None in the year 2023-24.	None in the year 2023-24.	No OB/waste generation is proposed in the present plan period.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.		The bench parameters are almost kept as per the proposal. And working is almost carried out within the proposed area only.	

**Exploitation :**

Sl.N	Item	Proposals	Actual Work	Remarks
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<b>0.</b>				
3a	Number of pit proposed for production	One pit in the year 2023-24.	One pit in the year 2023-24.	Only one pit is existing in the lease area and Dimension of the pit is as follows: - 800m (L) x 279m (W) x 12m (h).
3b	Quantity of ROM mineral production proposed	708509 tonnes in the year 2023-24. (207891 tonnes actual production up to sep 23 +500618.75tonnes from October 23 to March 24 as per MMP approved on 21-11-2023).	510000 tonnes in the year 2023-24.	Production achieved is almost 72%.
3c	Recovery of saleable / usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	None in the year 2023-24.	None in the year 2023-24.	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	
3f	Quantity of subgrade mineral	None in the year 2023-24.	None in the year 2023-24.	



	generation.			
3g	Grade of subgrade mineral generation.	Not applicable.	Not applicable.	
3h	Manual / Mechanized method adopted for segregating from ROM	None.	None.	Lessee is not doing any processing at the mine site and dispatching entire ROM to the cement plant linked with the mine.
3i	Any analysis or beneficiation study proposed and carried out for subgrade mineral and rejects	None.	None	
3j	Provision of drilling and blasting in mineral benches	Yes, proposed.	Lessee is doing drilling and blasting as per the proposal.	Using drilling machine of 115mm capacity for drilling blast holes and slurry explosive for blasting.
3k	Provision of mining machineries in mineral benches	Yes proposed combination of Excavators and tippers.	Using Excavators of 1.5 CUM capacity and tippers of 19 CUM capacity in the mineral benches.	Additionally, lessee is using 115mm dia drilling machine for drilling blast holes and dozer for haul road repair work.

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 6.00 mtr benches in ore and no OB benches were proposed.	Maintained bench height average 4.00 to 5.00 mtrs.	The bench height proposed and maintained is suitable for the method of mining adopted .
3m	Total area covered under excavation / pits	Area under Mining:- 21.35 Ha up to 2023-24.	Area under Mining:- 22.32Ha as on 31.03.2024.	The land use details provided is up to 30-09-2024. As on 31-04-2024, area covered under mining is 20.23Ha only.
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	Recovery is 100% and no OB is removed in the year 2023-24.
3o	Total area put in use under different heads at the end of year	Area under Mining:- 21.35 Ha up to 2023-24, Roads 1.00Ha, Infrastructure- 0.85Ha, Others (Garland drains):- 0.30Ha .	Area under Mining:- 22.32Ha as on 30.09.2024.Roads 1.00Ha, Infrastructure- 0.85Ha, Others (Garland drains):- 0.30Ha . Area covered under Green belt is 10.27Ha.	The land use details provided is up to 30-09-2024. As on 31-04-2024, area covered under mining is 20.23Ha only. Since green belt is not covered under FA, area proposed for plantation is not shown under area put to use in the MMP.

3p	Production of ROM mineral during the last five year period as applicable	2023-24 - 708509T 2022-23 - 408198T 2021-22 - 414789T 2020-21 - 20149 T 2019-20 - 350000T	2023-24 - 510000T 2022-23 - 349500T 2021-22 - 400000T 2020-21 - 10000 T 2019-20- 324883T	
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.	

**Solid Waste Management - Dumping :**

<b>Sl.N o.</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, OB is existing in the area proposed for mining in the present five years block period. Recovery is 100% and generation mineral reject is also Nil.
4b	Location of topsoil, OB and mineral reject dumps	None in the year 2023-24.	None in the year 2023-24.	No dumps are existing within the lease area.

4c	Number of dumps within lease area and outside of lease area	None in the year 2023-24.	None in the year 2023-24.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable.	Not applicable.	
4e	Number of active and alive dumps.	None in the year 2023-24.	None in the year 2023-24.	No dumps are existing within the lease area.
4f	Number of dead dumps.	None in the year 2023-24.	None in the year 2023-24.	
4g	Number of dumps established.	None in the year 2023-24.	None in the year 2023-24.	
4h	Whether retaining wall or garland drains all along dumps are there.	None in the year 2023-24.	None in the year 2023-24.	
4i	Length of retaining wall or garland drain all along dumps.	None in the year 2023-24.	None in the year 2023-24.	
4j	Number of settling ponds	None in the year 2023-24.	None in the year 2023-24.	

4k	Specific comments of inspecting officers on waste dump management .		No topsoil, OB, and mineral reject is proposed and generated in the present five year block period, so no dumping was made.	No dumps are existing within the lease area.
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**Solid Waste Management - Backfilling :**

<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		Present working is not reached up to the proved depth and no	

	officers on backfilling and reclamation etc.		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 PMCP submitted on time and correctly. Rule 26(2)	Before 1st July of every year.	Submitted yearly report on PMCP within the prescribed time limit.	PMCP report submitted on 28.06.2024 along with the Annual returns submitted for the year 2023-24.
6b	Area available for rehabilitation (ha)	None.	None	
6c	Afforestation done (ha)	0.05Ha in the year 2023-24	0.6Ha in the year 2023-24.	
6d	No. of saplings planted during the year	500 saplings in the year 2023-24.	1834 saplings in the year 2023-24.	Plantation is made more than the proposal.
6e	Cumulative no. of plants	2750 in the five years block period of 2020-21 to 2024-25.	Total plantation mad in the present five year block period (2020-21 to 2024-25) up to 31.03.2024 is 3555 saplings.	Total plantation made so far is 14917 covering an area of 10.27Ha.
6f	Any other method of rehabilitation	None.	None	

6g	Cost incurred on watch and care during the year	None	2.5 to 3.0 lakhs	For taking care of plantation.
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	Nil	Nil	

	rehabilitation by backfilling (iv) Rehabilitation by making water reservoir			
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil	
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	



	n			
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 result is within permissible limits.	Lawn Enviro Associates, Hyderabad.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Only plantation was proposed under PMCP in the year 2023-24. Against the proposal of 500 lessee has planted 1834 saplings in the year 2023-24. Further, total plantation made so far is 14917 saplings. Plantation was made more than the proposal. Environmental monitoring is carried out as per the proposal and results are within the permissible limits.	
<b>Mineral Conservation:-</b>				
<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
7a	ROM mineral dispatch or gradewise 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 gradewise mineral sorting i.e. manual or mechanical	None.	None.	Sending ROM to Crusher which is existing near the plant area. From crusher point feeding 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.	
7e	General remarks of inspecting officers on mineral conservation and beneficiation issues.		Lessee is not doing any mineral processing at the mine site at present and Dispatching ROM Crusher which is existing near the plant area. After crushing feeding to Captive Cement plant linked with the mine.	
<b>Environment:-</b>				
<b>Sl.No</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
8a	Separate removal and utilization of topsoil (Rule 32)	None in the year 2023-24.	None in the year 2023-24.	Topsoil removed earlier was utilized for plantation within the lease area.

8b	Concurrent use or storage of topsoil	None.	None	Topsoil removed earlier was utilized for plantation within the lease area.
8c	Separate dumps for overburden , waste rock, rejects and fines (Rule 33)	None.	None	
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 14917 saplings so far within the lease area.	
8g	Survival rate	None	85 to 90%	Lessee is well maintaining 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.		One pit is existing within the lease area. The benches are maintained systematically. Plantation was made in the 7.5mtr safety zone.	

**Compliance of Rule 45 :**

Sl.No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and annual returns	A monthly return shall be submitted before the tenth day of every month in	Submitting Monthly and Annual returns within the time limit.	Submitted Annual returns for the year 2023-24 on 28-06-2024.

		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.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the Annual returns submitted for the year 2023-24 details are as follows: Mining Engineer:- Pavankumar Reddy S. Geologist: K Jagannadha Rao , Mines Manager:- V.V.Krishna Reddy.	The information furnished in the Annual returns submitted for the year 2023-24 is found correct.	Lessee has submitted notice of appointment to this office.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining:- 20.233Ha, Infrastructure:- 1.85Ha, Others(Garland drain):- 0.3Ha	Area under Mining:- 22.32Ha. Roads 1.00Ha, Infrastructure- 0.85Ha, Others (Garland drains):- 0.30Ha . Area covered under Green belt is 10.27Ha.	The land use details furnished in the Annual returns submitted for the year 2023-24 is found correct. The area covered green belt is not furnished in the AR submitted for the year 2023-24 and Show-cause notice is issued for the same under Rule 45(7) of MCDR

				2017.
9d	Scrutiny of Annual return on afforestation	Shown 1834 saplings planted in the year 2023-24 with survival rate of 96%.	The information furnished in the Annual returns submitted for the year 2023-24 is found correct.	The survival rate of total plantation made so far is between 85 to 90%
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	No mineral reject generated in the year 2023-24. Lessee has utilized entire ROM by blending.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening and closing stock:- Nil, Production:-510000 tonnes. Grade wise: Cement Grade:- Opening and closing stock:-Nil, Production and dispatch:- 510000 tonnes	The details furnished in the AR submitted for the year 2023-24 is found correct.	Entire ROM produced is dispatched to captive plant under cement grade.
9g	Scrutiny of Annual return on Sale value, Ex Mine price and production cost	Cost of production and Ex-mine price is shown as Rs 290.07/ton.	The information furnished in the Annual returns submitted for the year 2023-24 is found correct.	As per the instruction given by HQ, for capital consumption Sale value should be given by multiplying dispatch quantity with cost of production. However, lessee is

				not mentioned sale value for the material dispatched to the captive consumption. Show cause notice is issued for the same under Rule 45(7) of MCDR 2017.
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets was mentioned as ₹ 0 in the year 2023-24.	Lessee has shown machineries & Transport vehicles at point no-6 of Part V, but value for the same is mentioned as zero.	Show cause notice was issued for the same under Rule 45(7) of MCDR 2017.
9k	Scrutiny of Annual return on mining machineries	Shovel 1.5 cum - 02. Tippers of 16cum- 06 , Drilling machine of 115mm-01.	The details furnished in the AR submitted for the year 2023-24 is found correct.	

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

Violation observed			Show cause position		
Rule No.	Issued on	Compliance position	Rule No.	Issued on	Compliance position
	NA		45(7)	09-01-2025	

Date:-09-01-2025

(KALMATA.M.K)

Indian Bureau of Mines