

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

Mine File: AP/NLG/Lst-5/Hyd

Mine Code: 38 APR 14007

1) Name of Inspecting officer:	Shri. M.K. Kalmata
2) Designation	Regional Mining Geologist
3) Accompanying mine official with designation	Shri. V. Subramanyam, AVP Mines, Md. Nayeem, Sr.Mgr (Geology)
4) Date of Inspection	03.10.2024
5) Date of Previous Inspection	27.05.2024

Part-I: General

S.No.	Particulars	Details
1	Name of the Mine	Sagar Cements Limestone Mine - 1
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	326.58 Ha (196.27 Ha Govt Land & 130.311Ha Private Land)
3	Mine code	38 APR 14007
4	IBM Registration Number under rule 45 of	IBM/825/2011
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 : 21.02.1984
15	Date of Execution	18.08.1984

16	Period	50 Years 18.08.1984 to 17.08.2034
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, info@sagarcements.in 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 mvmurthy@sagarcements.in 01.11.2021
19	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines, qualification	Sri.V. Subramanyam Pedaveedu(Vi),Mattampally(M), Suryapet(Dist),Telangana(State) Phone : 08683 - 247039 subramanyamv@sagarcements.in 02.03.2005
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	Sri. M. Bhaskar Reddy (BE Mining) Pedaveedu(V),Mattampally(M), Suryapet(Dist),Telangana(State) Phone : 08683 - 247039 mbhaskarreddy@sagarcements.in 04.01.2021 And Md. Nayeem, Pedaveedu (V), Mattampally (M) Suryapet (Dist.), Telangana (State) mdnayeem@sagarcements.in

21	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	MP/AP/NLG/LST/188-SZ/1538, dated 03.08.2010. And Review of MP Approval Ltr. No. AP/NLG/MP/Lst-53/HYD, dated 14.12.2022 (2023-24 to 2027-28), & Modified MP approval Ltr. No. AP/NLG/MP/Lst-53/HYD dated 13.09.2023. (2023-24 to 2027-28)
22	Name of the Mineral	Limestone
23	Method of Mining(Opencast, Underground)	Open Cast
24	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
25	Captive/Non Captive	Captive

PART-II				
Exploration :				
Sl. No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	There was a proposal to drill 23 exploratory boreholes in the year 2023-24. (17+06) (17 proposals were given in the approved RMP 14-12-2022 and 06 given in the MMP dated 13-09-2023.	Drilled 23 exploratory boreholes in the year 2023-24 to a total depth of 874 mtr.	Combindly total 23 boreholes were propose to a total depth of 807 mtrs.
1b	Exploration over lease area for geological axis 1 or 2	Proposal was given for gap filling in the year 2023-24.	Exploration is carried out to cover the gaps.	Earlier, entire mineralized area was explored under G-1 level. However, after DGPS suvey

				the shape of the lease area was changed and location of drilled boreholes was distributed. To cover gaps created by lease shape change lessee has drilled 23 boreholes in the year 2023-24.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None.	Exploration is carried out by lessee himself under the supervision of Geologist appointed under Rule 55 of MCDR 2017. Expenditure incurred on exploration is Rs 1713900 during the year 2023-24.	Total expenditure incurred on exploration is Rs 5749068.
1d	Balance area to be explored to bring Geological axis in 1 or 2	None. Exploration was proposed to fill the gap formed in drilled grid pattern due to change in lease shape after DGPS survey.	Exploration is carried out to cover the gaps.	Total lease area is 326.58Ha out of which 274Ha is mineralized and remaining 52.58 Ha is non- mineralized zone. Entire mineralized area is explored under G-1 level by drilling 173 boreholes to a total depth of 4688mtrs.

1e	Balance reserves as on 01/04/2017	As per the approved document dated 13-09-2023, details of reserves/resources are as follows (as on 01-08-2023) (In million tonnes) Proved M Reserves:- 144.117 Pre-feasibility M Resources (221) 24.658 Total:- 168.775	Reserves/resources as on 01-04-2024 are as follows: (In million tonnes) Proved M Reserves:- 142.428 Pre-feasibility M Resources (221) 24.658 Total:- 167.086	Reserves/resources are updated by depleting 1688758 tonnes of production carried out between August 2023 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's varies from +34 to 46.9. The strike of the formation is N 31 E-S	Total lease area is 326.58Ha out of which 274Ha is mineralized and remaining 52.58 Ha is non- mineralized zone. Entire mineralized area is explored under G-1 level by drilling 173 boreholes to a total depth of 4688mtrs.

			31W and dip 55 to 60 degree towards SE.	
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Development :

Sl.No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	In the year 2023-24, there was a proposal to work in two pits and details are as follows; Pit No-1: N 1851800 to 1853420 & E 378410 to 379210. Nad Pi No-2: N 1852440 to 1852875 & E 377890 to 377930	In the year 2023-24, actual working is carried out between the co-ordinates Pit no-1: N1851900 to 1853345 & E 378520 to 379090. Pitno-2: N1852450 to 1852870 & E 377910 to 377940.	In the year 2023-24, working is almost carried out within the proposed co-ordinates only.
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	Benches were proposed in ore & topsoil only.	Benches are existing in ore and topsoil.	Three benches are existing in ore and one bench of (Below one mtr) is existing in topsoil.
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 ³	43000 in the year 2023-24.	41496 in the year 2023-24.	
2e	Quantity of overburden generation in m ³	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 o.	Item	Proposals	Actual Work	Remarks
3a	Number of pit proposed for production	Two pits	Two pits	Total two pits are existing within the lease area and dimension of the pits is as follows: Pit No 1:-1880m (L) x 589m (w) x 27m (h). Pit No-2: - 760m(L) x 353m(w) x 12m(h)
3b	Quantity of ROM mineral production proposed	3161044.50 tonnes in the year 2023-24. (771242 tonnes actual production up to July 23 + 2389802.5 tonnes from Aug 23 to March 24 as per MMP approved on 13-09-2023).	2460000 tonnes in the year 2023-24.	Achieved 77.8% of production in the year 2023-24.
3c	Recovery of saleable / usable	100%	100%	

	mineral from ROM production			
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 generation.	None in the year 2023-24.	None in the year 2023-24.	
3g	Grade of subgrade mineral generation.	Not applicable.	Not applicable.	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized.	Using crusher for size reduction.
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 6.5 CUM capacity and dumpers of of 60 tonnes capacity in the mineral benches.	Additionally, lessee is using 115mm dia drilling machine for drilling blast holes and dozer for haul road repair work.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 9.00 mtr benches in ore and no OB benches were proposed.	Maintained bench height average 8.00 to 9.00 mtrs.	The bench height proposed and maintained is suitable for the method of mining adopted.
3m	Total area covered under excavation / pits	138.81Ha in the year 2023-24.	137.657Ha in the year 2023-24.	
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:- 138.81Ha, Topsoil stacking-0.07Ha, Waste dump- 2.25Ha, Infrastructure:- 10.68Ha, Township:- 43.83Ha.	Area under Mining:- 137.657Ha, Topsoil stacking-0.07Ha, Waste dump-2.25Ha, Infrastructure:- 10.68Ha, Township:- 43.83Ha. Area covered under Green belt is 46.10Ha.	

3p	Production of ROM mineral during the last five year period as applicable	2023-24 - 3161044.50T 2022-23 - 3012175T 2021-22 - 2554982 T 2020-21 - 2323600T 2019-20 -2323500 T	2023-24 - 2460000T 2022-23 - 2660000T 2021-22 - 2525000T 2020-21 - 2310000 T 2019-20- 1650641 T	
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 :

Sl.N o.	Item	Proposals	Actual Work	Remarks
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 OB generation is proposed in present five years block period & Generation of Mineral reject is proposed from 2025-26 only and entire topsoil generated is utilized for making bund in the safety barrier.

4b	Location of topsoil, OB and mineral reject dumps	None in the year 2023-24.	None in the year 2023-24.	In the present five year block period Mineral reject dump is proposed from 2025-26 onwards. However, one temporary topsoil dump and two old waste/Mineral reject dumps are existing within the lease area. The said dumps are located in the Western part of the lease area near Boundary Pillar number 35 and 36. (Since no analysis is available for existing two old dumps The name is given as OB/Mineral reject).
4c	Number of dumps within lease area and outside of lease area	None in the year 2023-24.	None in the year 2023-24.	However, one temporary topsoil dump and two old waste /Mineral reject dumps are existing within the lease area. The said dumps are located in the Western part of the lease area.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None in the year 2023-24.	None in the year 2023-24.	Two old waste/mineral reject dumps are existing outside the UPL.
4e	Number of active and alive dumps.	None in the year 2023-24.	None in the year 2023-24.	Two old waste/Mineral reject dumps and one temporary topsoil dump 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 .		In the present five year block period Mineral reject dump is proposed from 2025-26 onwards. However, one temporary topsoil dump and two old waste/mineral reject dumps are existing within the lease area. The said dumps are located in the Western part of the lease area near Boundary Pillar number 35 and 36.	
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Solid Waste Management - Backfilling :

Sl.No.	Item	Proposals	Actual Work	Remarks
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	Not proposed.	Nil	

	(Rule 32)			
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.	
Progressive Mine Closure Plan :				
Sl.No.	Item	Proposals	Actual Work	Remarks
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)	0.7Ha in the year 2023-24.	1.20Ha in the year 2023-24.	Plantation is made more than the proposal.
6d	No. of saplings planted during the year	1500 saplings in the year 2023-24.	2964 saplings were planted in the year 2023-24.	Plantation is made more than the proposal.
6e	Cumulative	The present five year	Only one year	Total plantation

	no. of plants	block period is started from 2023-24 to 2027-28 and plantation proposed in present five year block period is 6000.	completed in the present five year block period and plantation made in the first year is 2964.	made so far is 83407 saplings and total area covered under plantation is 46.10Ha
6f	Any other method of rehabilitation	None.	None	
6g	Cost incurred on watch and care during the year	15 lakhs including Environmental monitoring	18 lakhs including Environmental monitoring	Lessee is well taking care of plantation by engaging manpower for regular monitoring.
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 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	
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.	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 1500 lessee has planted 2964 saplings in the year 2023-24. Further, total plantation made so far is 83407 saplings. Plantation was made more than the proposal.	

			Environmental monitoring is carried out as per the proposal and results are within the permissible limits.	
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Mineral Conservation:-

Sl.N o.	Item	Proposals	Actual Work	Remarks
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 dispatching Cement grade ROM to crushing plant existing near the plant area and after crushing feeding to captive plant linked to the mine.
7b	Method of gradewise mineral sorting i.e. manual or mechanical	None.	None.	Lessee is not doing any grade wise sorting and dispatching entire ROM under cement grade to crusher existing near the plant area for size reduction. And feeding to cement plant linked to the mine.
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 beneficiation for grade up gradation. Blending low grade ore with high grade and dispatching entire ROM under cement grade to crusher existing near the plant area for size reduction. And feeding to cement plant linked to the mine.	

Environment:-

Sl.No	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposed.	Removed 41496 CUM topsoil in the year 2023-24 and utilized entire topsoil for making bund in the safety zone and plantation is made on the safety bund.	Entire topsoil removed in the year 2023-24 is utilized for plantation purpose.
8b	Concurrent use or storage of topsoil	Concurrent use.	The topsoil removed in the year 2023-24 is utilized for making bund in the safety zone and plantation is made on the bund.	Approximately 700 to 800 CUM of topsoil removed earlier is stacked separately for future use.

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 83407 saplings so far within the lease area.	

8g	Survival rate	None	Average survival rate is 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 12,000 ltr capacity is in use for dust suppression.
8i	General remarks of inspecting officers on aesthetic beauty in and around mine areas.		Total two pits are existing within the lease area. Benches are maintained systematically. Green belt is developed in the 7.5 mtr safety zone and in the waste land existing within the lease area. Lessee has developed one fruit garden and for sitting benches was made by using waste oil barrels.	

Compliance of Rule 45 :

Sl.N o.	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 respect of the	Submitting Monthly and Annual returns within the time limit.	Submitted Annual returns for the year 2023-24 on 28-06-2024.

		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:-Shri M.Bhaskar Reddy Geologist: Shri Md.Nayeem & Mines Manager:- Shri V. Subramanyam.	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:- 137.657Ha, used for waste disposal;- 2.32Ha (Including topsoil stack) Infrastructure:- 54.51Ha.	Area under Mining:- 137.657Ha, Topsoil stacking-0.07Ha, Waste dump-2.25Ha, Infrastructure:- 10.68Ha, Township:- 43.83Ha. Area covered under Green belt is 46.10Ha.	The land use details furnished in the Annual returns submitted for the year 2023-24 is found correct. However, 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	2964 saplings with survival rate of 96%.	The information furnished in the Annual returns submitted for the year 2023-24 is found correct.	
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:- 2460000 tonnes. Grade wise: Cement Grade:- Opening and closing stock:-Nil, Production and dispatch:- 2460000 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 199.24/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 ₹ 444146838 in the year 2023-24.	The information furnished in the Annual returns submitted for the year 2023-24 is found correct.	
9k	Scrutiny of Annual return on mining machineries	Shovel 6.5 cum - 02. Dumpers of 60 ton capacity- 06 , Drilling machine of 115mm- 01. One-dozer, One wheel loader.	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)	15-01-2025	

Date:-15-01-2025

(KALMATA.M.K)

Indian Bureau of Mines