

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/NLG/LST-8/HYD

Mine code : 38APR14022

- (i) Name of the Inspecting : M029) MADHU SUDHAN YADAV M
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri.Subramanyam, Chief General Manager(Mines), Sri. Md
Official with
Designation
- (iv) Date of Inspection : 03-JAN-23
- (v) Prev.inspection date : 14-NOV-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : SAGAR CEMENTS LST MINE 2
- (b) **Registration NO.** : IBM/825/2011
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TELANGANA
- District : NALGONDA
- Village : PEDAVEEDU
- Taluka : HAZUR NAGAR
- Post office : MATTAMPALLI
- Pin Code : 508225
- FAX No. : 040-23356573
- E-mail : info@sagarcements.in
- Phone : 08683246533
- (f) Police Station : MATTAMPALLY
- (g) First opening date : 01-MAY-86
- (h) Weekly day of rest : SUN
2. Address for : PEDDAVEEDU VILLAGE
correspondance : MATTAMPALLY MANDAL
NALGONDA DISTRICT-508225
3. (a) Lease Number : APR0063
- (b) Lease area : 143.72
- (c) Period of lease : 50
- (d) Date of Expiry : 30-OCT-35
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S SAGAR CEMENTS LTD
 H.NO.8-2-472/B/2 ROAD NO.1
 BANJARA HILLS HYDERABAD
 TELANGANA
 Phone:040-3351571,0403356572
 FAX :

Owner : S.ANANDA REDDY
 H.NO.8-2-472/B/2,ROAD NO.1
 BANJARA HILLS HYDERABAD
 HYDERABAD TELANGANA
 Phone: 04023351571
 FAX : 04023356573

Agent : D S N V PRASAD
 SAGAR CEMENTS LIMITED
 MATTAMPALLY SURYAPET
 DISTRICT NALGONDA TELANGANA
 Phone:
 FAX :

Mining Engineer

Name : M.BASKAR REDDY, Full Time
 Qualification : BE (MINING)
 Appointment/
 Termination date

Geologist

Name : N.SIVA NAGA RAJU, Full Time
 Qualification : M.SC (GEOLOGY)
 Appointment/
 Termination date

Manager

Name : V V KRISHNA REDDY
 Qualification : B TECH MINING
 Appointment/
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	18-AUG-03
		Modif.of approved Mining Plan	28-AUG-06
		Mining Scheme rule 12 MCDR1988	15-FEB-12
		Mining Scheme rule 12 MCDR1988	03-JUN-15
		MP modif under 17(3) MCR 2016	25-MAR-21

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2021-22 - 08 core boreholes	2021-22 - 08 core boreholes drilled	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	---	Drilling carried out by the lessee by their own drilling machine and manpower.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Part of the southwestern and southern part of the lease area were to be brought under G1 level of exploration	Entire lease area covered under G1 level of exploration	
1e	Balance reserve as on 01/04/20	----	Proved Mineral Reserves as on 01/04/2022 - 59.77 million Tonnes. Grade: CaO-44.255% SiO2-14.07%	
1f	General remarks of inspecting officers on geology, exploration etc			Entire mining lease area being covered under G1 level of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2nd Bench & 3rd Bench E945 N457, E 869 N272 E912 N272, E997 N451	Work done within the proposed co-ordinates.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No topsoil and overburden benches proposed, only mineral benches proposed	Only mineral benches developed	

2c	Stripping ratio or ore to OB ratio	No proposal	Nil	
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 officers on development of pit w.r.t. type of deposit etc			Stratified deposit of regular habit and development is done in Limestone only. There is no existence of top soil and overburden.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2021- 22 - 414789 Tonnes 2022-23 - 408198 Tonnes	2021-22 - 400000 Tonnes 2022-23 - 285504 (upto Dec'22)	
3c	Recovery of sailable/usable mineral from ROM production	99.5%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Nil	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting is proposed in the mineral benches.	Wagon drill being used for drilling with a blast hole dia of 115 mm & depth of 6.6 m, spacing of 4 meters and burden of 3 meters. Blasting with ANFO & slurry explosives with NONELS as initiating system.
3k	Provision of mining machineries in mineral benches	It was proposed to use wagon drills, excavators & dumpers for drilling, loading & transporting of ore to crushing plant.	During inspection, it was observed that wagon drills, dumpers & excavators are being used for drilling, loading & transportation of ore to crushing plant.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain the bench height of 6 meters	Bench height is being maintained between 8 m and digging height of the excavators are compatible with bench height
3m	Total area covered under excavation/pits	22.334 Ha	15.57 Ha
3n	Ore to OB ratio for the pit/mine during the year.	No proposal	Nil
3o	Total area put in use under different heads at the end of year	Openpit - 22.334 Ha Infrastructure - 3.0 Ha	Openpit - 15.57 Ha Infrastructure - 3.0 Ha

3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 351025 Tonnes 2018-19 - 351175 Tonnes 2019-20 - 350000 Tonnes 2020-21 - 20149 Tonnes 2021-22 - 414789 Tonnes 2022-23 - 408198 Tonnes	2017-18 - 243000 Tonnes 2018-19 - 292000 Tonnes 2019-20 - 349000 Tonnes 2020-21 - 324883 Tonnes 2021-22 - 400000 Tonnes 2022-23 - 285504 Tonnes (upto Dec'22)
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3q	General remarks of inspecting officers on method of mining etc.	The mining operations are being carried out by opencast fully mechanised method using HEMM with deep hole drilling and blasting.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal	Nil	
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Nil	
4c	Number of dumps within lease area and outside of lease area	No proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	
4e	Number of active and alive dumps.	No proposal	Nil	
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	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 dumps	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			No dump developed and maintained in the mining lease area.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of 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 mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The pit is not mined out upto its ultimate pit limit to start backfilling.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted in time	Submitted in time.	

6b	Area available for rehabilitation (ha) .	No proposal	Nil
6c	afforestation done (ha).	2021-22 - 0.5 Ha	2021-22 - 0.5 Ha
6d	No. of saplings planted during the year	2021-22 - 500 Nos.	2021-22 - 500 Nos.
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	No proposal	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring of core and buffer zone.	Quarterly environmental monitoring carried out during 2021-22 and all the parameters are within the permissible limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM produced is to be despatched.	The entire ROM is being fed to crusher and then supplied to the plant for manufacturing for Cement.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive plant.
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Environment:

Sl.No.	Item	Propasals	Actual work	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)	No proposal	Nil	
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)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2021-22 - 0.5 Ha with 500 Nos. of plantation	2021-22 - 0.5 Ha with 500 Nos. of plantation	
8g	Survival rate	70%	86%	

8h	Water sprinkling on roads to control airborne dust	Proposed to sprinkle water in the haulage road	Water tanker deployed for water sprinkling and sprinklers provided in the haul road.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is being carried out in and around the mine to improve aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly return and annual return to be submitted	Annual and Monthly returns submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri. V. V. Krishna Reddy Mining Engineer - Sri. N. Sivanagaraju Geologist - K.Jaganadha Rao.	Manager - Sri. V. V. Krishna Reddy Mining Engineer - Sri. N. Sivanagaraju Geologist - K.Jaganadha Rao.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits - 15.57 Ha Infrastructure - 3.0 Ha	Same as submitted	
9d	Scrutiny of Annual return on afforestation	500 Nos.	Broadly as submission and same quantity is verified in afforestation register maintained.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening and Closing stock - Nil	Opening and Closing stock - Nil	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production reported as Rs.279.35/-	Rs.279.35/-
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets not reported by the lessee in annual returns.	Lessee has reported that fixed asset is shown in the other mining lease linked to cement plant. Advised to show the mining code in the annual returns.
9k	Scrutiny of Annual return on mining machineries	Back hoe - 1 No. Tipper - 7 Nos. Drilling machine - 1 No. Water Tanker - 1 No. Pumps - 1 No.	All machineries found in the mining area.

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines