

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT
Hyderabad regional office

Mine file No : AP/GNR/LST-54/HYD

Mine code : 38APR07068

- (i) Name of the Inspecting : CS10) Ch.Suseela
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri. Kiran Naidu, Mine Manager, Sri. GNS Ranga Rao, G
Official with
Designation
- (iv) Date of Inspection : 06-APR-23
- (v) Prev.inspection date : 22-SEP-22

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KACHAVARAM LIMESTON (283.5
- (b) Registration NO. : IBM/960/2011
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ANDHRA PRADESH
District : GUNTUR
Village : KACHAVARAM & INUPARA
Taluka : KAREMPUDI
Post office : GUNTUR
Pin Code : 522002
FAX No. : _____
E-mail : shreebwr@shreecement.com
Phone : 9214337754
- (f) Police Station : Karempudi
- (g) First opening date : 30-JUN-18
- (h) Weekly day of rest : SUN
2. Address for : M/s Shree Cement Ltd,
correspondance Beawar, Dist. Ajmer, Rajasthan, 305901.
3. (a) Lease Number : → 283.585 ha
- (b) Lease area : → 50 Yrs
- (c) Period of lease : → 05.01.2067 .
- (d) Date of Expiry : →
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : SHREE CEMENT LTD.
 Bangur Nagar post box
 no.33,Bewar Rajasthan,
 BEAWAR RAJASTHAN
 Phone:
 FAX :

Owner : Shri . Neeraj Akhoury, Managing Director
 Shree Cement Ltd., 09th
 Floor Epitome Tower-
 B,Building No. 5, DLF Cyber
 City,Gurgaon (Haryana)
 GURGAON HARYANA
 Phone:
 FAX :

Agent : Shri M.K.Garg
 Shree Cement Ltd.,P.B. No.
 33, Bangur Nagar, Beawar,
 Dist. Ajmer, Rajasthan,
 305901 GUNTUR ANDHRA
 PRADESH
 Phone: 9214337754
 FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	03-AUG-12
Plan/Scheme of Mining		MP review under 17(1) MCR 2016	24-NOV-20
		MP modif under 17(3) MCR 2016	01-NOV-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	No proposal	NIL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	NIL	As per the approved modified mining plan, total mineralised area has been explored under G1 scale.
1e	Balance reserve as on 01/04/20	Proved-194.78 million tonnes (111) Resources--166.3 million tonnes (211)	Proved-194.78 million tonnes (111) Resources--166.3 million tonnes (211)	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	The ML area constitutes part of Northern Kadapa basin underlain by Kadapa and Kurnool super group of rocks. As per the approved modified mining plan, total mineralised area has been explored under G1 scale.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E 364200- E364400 N1828200- N1828600	Development is not as per the proposals.	Violation of Rule 11(1) was pointed out to the lessee.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, proposed separate benches for top soil and mineral benches	Maintained separate benches for top soil and mineral	
2c	Stripping ratio or ore to OB ratio	1: 1.37	1:0.21	
2d	Quantity of topsoil generation in m3	855 m3	8111 m3	Top soil generation is more than the proposed as the development was made in excess area for establishment of crusher during the year 2022-23. Hence Violation of Rule 11(1) was pointed out to the lessee.
2e	Quantity of overburden generation in m3	12825 m3	87833 m3	OB generation is more than the proposed as the development was made in excess area for establishment of crusher during the year 2022-23. Hence Violation of Rule 11(1) was pointed out to the lessee.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_____	_____	The development was not carried out as per approved proposals. Violation of Rule 11(1) was pointed out to the lessee.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	One Pit	One pit	
3b	Quantity of ROM mineral production proposed	10,000 tonnes	8, 41, 700 Tonnes	Excess production is due to more excavation than the proposal for installation of crusher in the pit.
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	NIL	
3f	Quantity of sub grade mineral generation.	NIL	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 mineral benches. Dia of Hole :165 mm, Spacing : 5 m Burden : 7 m, Expl.Type : Slurry Explosives & ANFO	Drilling and blasting is practiced in mineral benches. Dia of Hole : 165 mm, Spacing : 5 m Burden : 7 m, Expl.Type : Slurry Explosives & ANFO	
3k	Provision of mining machineries in mineral benches	Excavator--01, Dumper--03, Drill Machine--01, Dozer--01	Excavator--01, Dumper--03, Drill Machine--01, Dozer--01	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 4 m in OB and 12 meter bench height is proposed in mineral.	4 m in OB and 8 meter bench height is proposed in mineral.	
3m	Total area covered under excavation/pits	1.04 ha	4.8 m	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 1.37	1:0.21	Deviation in ore to OB ratio is due to higher limestone production for establishment of crusher.
3o	Total area put in use under different heads at the end of year	3.95 ha	12.06 ha	Deviation in total area put in use is due to excavation for installation of limestone crusher.
3p	Production of ROM mineral during the last five year period as applicable	2021-22--5000 t, 2021-22--10,000 t	2021-22--3580 t, 2021-22-- 841700 t	Excess production of ROM in the year 2022 - 2023 is due to more excavation than the proposal for installation of crusher. Violation of Rule 11(1) was pointed out to the lessee.

3g General remarks
of inspecting
officers on
method of mining
etc.

The mining
operations are
being carried out
by fully
mechanised open
cast mining.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed to use the top soil for plantation and OB to be dumped	A quantity of 8111 m3 top soil was used for plantation and the quantity of 87833 m3 is dumped in between Co - Ordinates E363351.5810- E363577.0365 and N1828008.7537- N1828124.3925	
4b	Location of topsoil, OB and mineral reject dumps	OB--E 363600- E 363800 N 1828600-N 1828800	OB-- E 363410- E 363640 N 1828010- N 1828150	OB dump is not as per approved proposal. Hence, Violation of Rule 11(1) was pointed out to the lessee
4c	Number of dumps within lease area and outside of lease area	One OB dump within ML area	One OB dump within ML area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	
4e	Number of active and alive dumps.	One active OB dump	One active OB dump	
4f	Number of dead dumps.	No Proposal	NIL	
4g	Number of dumps established.	No Proposal	NIL	waste dump is in active stage.

4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall or garland drain of previous year is to be maintained only	Retaining wall or garland drain was constructed along OB dump during the year 2022-23.	
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall-880 m, Garland drain-900m in the F.Y 2021-22	Retaining wall of 560 mand Garland drain of 880 m constructed during the year 2022-23.	Violation letter issued for not constructing the Retaining wall and Garland drain during the year 2021-22 by the earlier inspecting officer. In compliance of the said violation, the same was constructed during the year 2022-23.
4j	Number of settling ponds	No proposal	NIL	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	Waste dump was not developed in a designated place. Hence, Violation of Rule 11(1) was pointed out to the lessee.

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.	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 Mining operations were commenced since the F.Y. 2021-22. Hence, the pit is not reached to its ultimate limit . As such, back filling and reclamation does not arise at this stage.

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).	Annual Report on PMCP Compliance is to be submitted before 1.7.2023	To be submitted before 1.7.2023	Not due
6b	Area available for rehabilitation (ha) .	No Proposal	NIL	
6c	afforestation done (ha).	No Proposal	NIL	
6d	No. of saplings planted during the year	No Proposal	NIL	
6e	Cumulative no .of plants	No Proposal	NIL	
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 (L x 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 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	1200 No. of Plants	3000 No. of plants

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 ha	2.0 ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of environmental parameters are to be carried out	Quarterly monitoring of environmental parameters are being carried out by "Global Environment & Mining Services, Hospet". and the reports are being sent to IBM regularly.	The reports are cross checked and found that the results are within prescribed limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	Plantation done more than the proposals. Afforestation register has been cross verified.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed ROM mineral dispatch	ROM is stacked in the lease area as the cement plant is under erection.	Violation of Rule 11(1) was pointed out to the lessee.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Applicable	NIL	
7c	Different grade of mineral sorted out at mines.	Not Applicable	NIL	

7d	Any beneficiation process at mines	No proposal	NIL	No beneficiation is required as total ROM is utilised
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	Total ROM is utilised for cement plant. Hence beneficiation is not required.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal of top soil and to be used for plantation concurrently	Top 30 cm material is being removed separately as top soil and used concurrently for plantation.	Remaining material of the top soil bench mixed with lime pebbles is being dumped separately as OB.
8b	Concurrent use or storage of topsoil	For concurrent use for plantation.	Concurrent use for plantation only.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for overburden. There is no waste and Mineral Reject.	Overburden is dumped separately . Total ROM is utilised for cement manufacturing.	
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)	1200 plants	3000 plants
8g	Survival rate	85%	85%
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression	Water Tankers are provided for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly Returns submitted up to the month of March,2023 within specified time Annual return submitted up to the F.Y.2021-22 within specified time Annual return to be submitted up to the F.Y.2022-23 before 1.7.2023	Monthly Returns submitted up to the month of March,2023 within specified time Annual returns submitted up to the F.Y.2021-22 within specified time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri. Kiran Naidu Mining Engineer - Sri. Kiran Naidu Geologist - Sri. GNS Ranga Rao	Manager - Sri. Kiran Naidu Mining Engineer - Sri. Kiran Naidu Geologist - Sri. GNS Ranga Rao
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits--0.16 ha, area under dumps--0.060 ha, Infrastructure --1.16 ha	Found in order
9d	Scrutiny of Annual return on afforestation	0	3000 plants have been planted during the F.Y: 2022-23
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	NIL	NIL

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production-- Rs.1700.24/- Ex.M.P- Rs.1700.24/-	Cost of Production-- Rs.1700.24/- Ex.M.P- Rs.1700.24/-
9h	Scrutiny of Annual return on fixed assets	Rs.1923000929/ -	Fixed asset could not be verified.
9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic) 2.3 m3-1 Tipper-- 10 m3--2	Shovel (Hydraulic) 2.3 m3-1 Tipper-- 10 m3--2

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	18-APR-23			
MCDR17	Rule 31(4)	18-APR-23			

Date :

(Ch.Suseela)

Indian Bureau of Mines