

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

Mining Plan Modification REPORT

Hyderabad regional office

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

Mine code : 38APR07068

- (i) Name of the Inspecting : K007) SHAIVAL KARTIKEYA
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Kiran Naidu, Manager Mines & Shri O.P. Sharma, Q
Official with
Designation
- (iv) Date of Inspection : 08/06/2023
- (v) Prev.inspection date : 28/07/2021

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 : 30/06/2018
- (h) Weekly day of rest : SUN
2. Address for : M/s Shree Cement Ltd,
correspondance : Beawar,Dist. Ajmer, Rajasthan, 305901.
3. (a) Lease Number :
(b) Lease area : 283.585 Ha.
(c) Period of lease : 50 yrs.
(d) Date of Expiry : 05/01/2067
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	03/08/2012
Plan/Scheme of Mining		MP review under 17(1) MCR 2016	24/11/2020
		MP modif under 17(3) MCR 2016	01/11/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal.	Nil.	The entire mining lease area has already been explored under G1 level with 79 nos. of core boreholes (Cumulative depth 4685 meters).
1b	Exploration over lease area for geological axis 1 or 2	No proposal.	Nil.	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal.	Nil.	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Nil.	-do-
1e	Balance reserve as on 01/04/20	Balance reserves as on 01/04/2023: Under (111): 194.790 Million Tonnes Under (211) 166.30 Million Tonnes	Balance reserves as on 01/04/2023: Under (111): 194.796 Million Tonnes Under (211): 166.30 Million Tonnes	Average grade of limestone: CaO: 44.20% MgO: 0.59%

1f	General remarks of inspecting officers on geology, exploration etc	The general topography of the lease area is almost flat and gradually sloping towards N-E direction. Overlying the Archean unconformity, the Proterozoic rocks are deposited in a liner basin, referred to as Cuddapah Basin in Peninsular India. These are sedimentary rocks comprising of conglomerates, sandstone, shales, and limestone. The Proterozoic eras is represented by Cuddapah and Kurnool formations. The Cuddapah basin has undergone deformation due to Eastern-ghat orogeny during Jurassic era.	The area constitutes part of Northern Cuddapah basin and underlain by both Cuddapah and Kurnool Super Group of rocks. The Limestone deposit of the mining lease area is of sedimentary origin and stratigraphically belongs to Narji Limestone formation of Kurnool group.
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Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	F.Y. 2022-23: In between UTM co-ordinates N1828200 to N1828600 and E364200 to E364400	F.Y. 2022-23: N1827840 to N1828065 and E363750 to E364030	Deviation has been pointed out. Development has been for erection of the primary crusher unit.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil: 01 no. OB/Waste: 01 no. Mineral/Ore: 01 no.	Topsoil: 01 no. OB/Waste: 01 no. Mineral/Ore: 01 no.	-do-
2c	Stripping ratio or ore to OB ratio	1 : 1.37	1 : 9.149	87833.0 CuM overburden has been generated during F.Y. 2022-23.
2d	Quantity of topsoil generation in m3	855.0 CuM	8111.0 CuM	Excess development has been done. Deviation has been pointed out.

2e	Quantity of overburden generation in m3	12825.0 CuM	87833.0 CuM	-do-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The development and production is being done through fully mechanized means. Excess development has been pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	10000.00 Metric Tonnes	9600.00 Metric Tonnes.	841700.00 Tonnes of limestone has been generated from the area dug under developed for installation of primary crusher unit.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-do-
3d	Quantity of mineral reject generation	No proposal.	Nil.	No mineral reject has been generated during F.Y. 2022-23.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Nil.	-do-
3f	Quantity of sub grade mineral generation.	No proposal.	Nil.	No mineral sub-grade has been generated during F.Y. 2022-23.
3g	Grade of sub grade mineral generation	No proposal.	Nil.	-do-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised crushing and screening have been proposed.	Installation of primary and secondary crusher units are in progress.	-do-

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Nil.	-do-
3j	Provision of drilling and blasting in mineral benches	Drilling Dia.: 115 mm Spacing: 5.0 m Burden: 7.0 m Depth: 12.0 m Explosive: Slurry & ANFO	Drilling Dia.: 115 mm Spacing: 5.0 m Burden: 7.0 m Depth: 12.0 m Explosive: Slurry & ANFO	-do-
3k	Provision of mining machineries in mineral benches	1. Dumpers 05 nos. with 55.0 Tonnes carrying capacity. 2. Back Hoe 02 nos. with 6.0 CuM bucket capacity. 3. Drilling Machine 01 no. with 165.0 mm bit diameter. 4. Dozer 01 no. with 320 HP capacity.	1. Back Hoe 03 nos. with 6.5 CuM, 3.1 CuM and 2.4 CuM bucket capacity. 2. Dumpers 07 nos. with 60.0 Tonnes (03 nos.) and 40.0 Tonnes (04 nos.) capacity 3. Dozer 01 no. with 320 HP capacity. 4. Motor Grader 01 no. with 180.0 HP capacity 5. Other HEM machinery 06 nos. with 164.0 Capacity 6. Water Tanker 01 no. with 18000 KL capacity. 7. Blast Hole Drilling Machine 01 no. with 160.0 mm bit diameter. 8. Front End Loader 01 no. with 5.0 CuM bucket capacity 9. Road Roller 01 no. with 5.60 Tonnes capac	Excess machines have been deployed in the mining operations without any approved proposal. Deviation has been pointed out.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil: 0.50 m to 1.0 m OB/Waste: 1.0 m to 3.0 m Mineral/Ore: 6.0 m	Topsoil: 0.50 m to 1.0 m OB/Waste: 1.0 m to 3.0 m Mineral/Ore: 6.0 m to 12.0 m	Deviation has been pointed out. Revised proposal has been given in the submitted MMP for systematic development of working benches.
3m	Total area covered under excavation/pits	Pit: 1.04 Ha. Up to end of F.Y. 2022-23	Pit: 5.40 Ha. Up to end of F.Y. 2022-23	Excess area has been utilized without any approved proposal. Deviation has been pointed out.

3n	Ore to OB ratio for the pit/mine during the year.	1 : 1.37	1 : 9.149	87833.0 CuM overburden has been generated during F.Y. 2022-23.
3o	Total area put in use under different heads at the end of year	Pit: 1.04 Ha. Waste/reject- 0.45 Ha. Others- 2.46 Ha. Up to end of F.Y. 2022-23	Pit: 5.40 Ha. Waste/reject- 1.90 Ha. Others- 8.80 Ha. Up to end of F.Y. 2022-23	Excess area has been utilized without any approved proposal. Deviation has been pointed out.
3p	Production of ROM mineral during the last five year period as applicable	Yr. 2020-21: 3600000.00 Metric Tonnes Yr. 2021-22: 5000.00 Metric Tonnes Yr. 2022-23: 10000.00 Metric Tonnes	Yr. 2020-21: Nil. Yr. 2021-22: 3580.00 Metric Tonnes Yr. 2022-23: 9600.00 Metric Tonnes	832100.00 Metric Tonnes of Limestone has been generated from the area developed for installation of Primary Crusher.
3q	General remarks of inspecting officers on method of mining etc.			Mining has been carried out through the opencast method with fully mechanized means using conventional drilling and blasting.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposal has been given in the approved document for separate dumping of waste and stacking of mineral/ore within lease area.	Separate dumping of waste and stacking of mineral/ore has been done within lease area.	-

4b	Location of topsoil, OB and mineral reject dumps	In between UTM co-ordinates OB/Waste (Dump No. 1): N182600 to N1828800 and E363600 to E363800 Mineral/Ore: N1828200 to N1828600 and E363600 to E363800	In between UTM co-ordinates OB/Waste (Dump No. 1): N1828010 to N1828150 and E363410 to E363640 Mineral/Ore: N1828150 to N1828350 and E363675 to E363920	Deviation has been pointed out for changes form the proposed locations. The generated top soil has been utilized for plantation.
4c	Number of dumps within lease area and outside of lease area	Within lease area: OB/Waste: 01 no. Outside lease area: Nil.	Within lease area: OB/Waste: 01 no. Outside lease area: Nil.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed waste dumping beyond ultimate pit limit.	Waste dumping has been done within ultimate pit limit.	Deviation has been pointed out.
4e	Number of active and alive dumps.	Waste Dump: 01 no.	Waste Dump: 01 no.	-do-
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	-	-	Nil.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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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)	F.Y. 2022-23: 855.0 CuM of topsoil will be utilized for plantation.	F.Y. 2022-23: 8111.0 CuM of topsoil will be utilized for plantation.	Deviation has been pointed out for excess generation of topsoil.
5d	Total area fully reclaimed and rehabilitated	1200 nos. of saplings will be planted over 1.0 Ha. area.	3000 nos. of saplings have been planted over 2.0 Ha. area at 7.5 m barrier zone.	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Nil.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	As per rule 26(2), lessee has to submit the annual report before 1st day of July of every year.	As per rule 26(2), lessee has to submit the annual report before 1st day of July of every year.	Nil.
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 (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	1200 nos.	3000 nos.	-
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	By plantation.	By plantation.	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposal has been given in the approved document for regular monitoring of the environmental parameters in the core and buffer zone.	Being done as per proposal.	All the parameters are within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Nil.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM/Ore will be dispatched directly to the crusher plant without sorting.	Being done as per proposal.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal for grade wise sorting.	ROM/Ore is being dispatched to the captive plant without sorting.	-
7c	Different grade of mineral sorted out at mines.	-do-	-do-	-
7d	Any beneficiation process at mines .	No Proposal.	Nil.	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Nil.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposal has been given in the approved document for separate removal of 855.0 CuM of topsoil and their utilization for the purpose of plantation along the mining lease boundary at 7.5 m barrier zone.	During F.Y. 2022-23, 8111.0 CuM of topsoil has been generated sand the same has been utilized for purpose of plantation along the mining lease boundary at 7.5 m barrier zone.	Deviation has been pointed out for excess generation of topsoil.
8b	Concurrent use or storage of topsoil	-do-	-do-	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal has been given in the approved document for separate dumping of waste/OB and mineral in the earmarked locations within lease area. In between UTM co-ordinates OB/Waste (Dump No. 1): N182600 to N1828800 and E363600 to E363800 Mineral/Ore: N1828200 to N1828600 and E363600 to E363800	Separate dumping and stacking have been done in the earmarked locations within lease area in between UTM co-ordinates OB/Waste (Dump No. 1): N1828010 to N1828150 and E363410 to E363640 Mineral/Ore: N1828150 to N1828350 and E363675 to E363920	Deviation has been pointed out for changes form the proposed locations. The generated topsoil has been utilized for plantation.
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)	F.Y. 2022-23: 1.0 Ha. area will be utilized for plantation of 1200 nos. of saplings.	F.Y. 2022-23: 2.0 Ha. area has been utilized for plantation of 3000 nos. of saplings.	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1200 nos. of saplings will be planted over 1.0 Ha. area.	3000 nos. of saplings have been planted over 2.0 Ha. area.	-
8g	Survival rate	No Proposal.	Approximate 80%	-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads to control airborne dust through the water tanker.	Being done as per proposal.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Nil.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to June 2023 A.R. Submitted up to F.Y. 2022-23	M.R. Submitted up to June 2023 A.R. Submitted up to F.Y. 2022-23	Nil.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri Kiran Naidu w.e.f. 14/04/2022 Mining Engineer: Shri Kiran Naidu Geologist: Shri GNS Rangarao	Manager: Shri Kiran Naidu w.e.f. 14/04/2022 Mining Engineer: Shri Kiran Naidu Geologist: Shri GNS Rangarao	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 5.40 Ha. Waste/reject- 1.90 Ha. Others- 8.80 Ha.	Pit: 5.40 Ha. Waste/reject- 1.90 Ha. Others- 8.80 Ha.	Excess area has been utilized. Deviation has been pointed out.
9d	Scrutiny of Annual return on afforestation	Within lease area: 3000 nos. with 85% survival rate. Outside lease area: Nil.	Within lease area: 3000 nos. with 88% survival rate. Outside lease area: Nil.	Nil.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral-reject: NIL Grade: NIL	Mineral-reject: NIL Grade: NIL	Nil.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock ROM: Nil. Cement Grade limestone: 2100.00 Metric Tonnes	Closing stock ROM: Nil. Cement Grade limestone: 2100.00 Metric Tonnes	Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: Nil. Ex-mine Price: Rs. 14172.00 Per Metric Tonne Cost of Production: Rs. 14172.00 Per Metric Tonne	Sale value: Nil. Ex-mine Price: Rs. 14172.00 Per Metric Tonne Cost of Production: Rs. 14172.00 Per Metric Tonne	Nil.

9h	Scrutiny of Annual return on fixed assets	Rs. 2180048619/-	Rs. 2180048619/-	Nil.
9k	Scrutiny of Annual return on mining machineries	<p>1. Back Hoe 03 nos. with 6.5 CuM, 3.1 CuM and 2.4 CuM bucket capacity.</p> <p>2. Dumpers 07 nos. with 60.0 Tonnes (03 nos.) and 40.0 Tonnes (04 nos.) capacity</p> <p>3. Dozer 01 no. with 320 HP capacity.</p> <p>4. Motor Grader 01 no. with 180.0 HP capacity</p> <p>5. Other HEM machinery 06 nos. with 164.0 Capacity</p> <p>6. Water Tanker 01 no. with 18000 KL capacity.</p> <p>7. Blast Hole Drilling Machine 01 no. with 160.0 mm bit diameter.</p> <p>8. Front End Loader 01 no. with 5.0 CuM bucket capacity</p> <p>9. Road Roller 01 no. with 5.60 Tonnes capac</p>	<p>1. Back Hoe 03 nos. with 6.5 CuM, 3.1 CuM and 2.4 CuM bucket capacity.</p> <p>2. Dumpers 07 nos. with 60.0 Tonnes (03 nos.) and 40.0 Tonnes (04 nos.) capacity</p> <p>3. Dozer 01 no. with 320 HP capacity.</p> <p>4. Motor Grader 01 no. with 180.0 HP capacity</p> <p>5. Other HEM machinery 06 nos. with 164.0 Capacity</p> <p>6. Water Tanker 01 no. with 18000 KL capacity.</p> <p>7. Blast Hole Drilling Machine 01 no. with 160.0 mm bit diameter.</p> <p>8. Front End Loader 01 no. with 5.0 CuM bucket capacity</p> <p>9. Road Roller 01 no. with 5.60 Tonnes capac</p>	<p>Excess machines have been deployed in the mining operations without any approved proposal. Deviation has been pointed out.</p>

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

Date :

(SHAIVAL KARTIKEYA)

Indian Bureau of Mines