

**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 : **DP09**) **D.P.Ravi kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : S/Shri Annapareddy Gopal Reddy, Mining Engineer Kira
Official with
Designation
- (iv) Date of Inspection : 20/06/2024
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KACHAVARAM LIMESTON(283.5**
- (b) **Registration NO.** :
- (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 :
Phone :
- (f) Police Station :
- (g) First opening date : 30/06/2018
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(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 :
6. Date of approval of Mining :
Plan/Scheme of Mining

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 bores (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		The reserves as 1.4.2024 are 193.797 million tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc			The ML area constitutes part of North-eastern Kadapa basin underlain by Kadapa and Kurnool super group of rocks. The entire potentially mineralised area is covered under G1 scale of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area) PIT (CENTRE REGION) PROPOSED : N 1828101.7 - 1828382.5 E 363841.9 - 363950.5	PIT (SOUTHERN PART) ACTUAL: N 1827920.31 - 1828004.3 E 363660.31 - 364025.7 PIT (CENTRE REGION) ACTUAL: N 1828091.6 - 1828375.6 E 363910.7 - 363850.8	Deviation has been observed for location of mine development. Accordingly, a violation letter has been issued 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.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.012	1:0.012	Nil
2d	Quantity of topsoil generation in m3	1325 cu.m	1319 cu.m	Nil
2e	Quantity of overburden generation in m3	10600 cu.m	10597 cu.m	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Deviation has been observed for location of mine development. Accordingly, a violation letter has been issued to the lessee.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	Nil
3b	Quantity of ROM mineral production proposed	10,00,000 t	9,82,953 t	Nil

3c	Recovery of sailable/usable mineral from ROM production	It was proposed to use the entire ROM for the cement plant.	Same was noticed during the inspection.	No deviation.
3d	Quantity of mineral reject generation	No proposal	Nil	No mineral sub grade has been generated during 2023-24.
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 2023-24.
3g	Grade of sub grade mineral generation	No proposal	Nil	No mineral sub grade has been generated during 2023-24.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised crushing and screening have been proposed	Installed primary and secondary crusher units .	-do-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting is proposed in mineral benches. Dia of Hole :115 mm. spacing : 5 m Burden : 7 m, ExpI . Tl.pe : Slurry Explosives & ANFO	Drilling and blasting is proposed in mineral benches. Dia of Hole :115 mm. spacing : 5 m Burden : 7 m, ExpI . Tl.pe : Slurry Explosives & ANFO	Nil

3k	Provision of mining machineries in mineral benches	1) Excavator : 01 No. 2) Dumper : 06 No. 3) Drill Machine : 01 No. 4) Back Hoe : 02 No. 5) Dozer : 01 No.	1) Excavator : 01 No. 2) Dumper : 06 No. 3) Drill Machine : 01 No. 4) Back Hoe : 02 No. 5) Dozer : 01 No.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 4m in OB and 12 meter bench height is proposed in mineral.	Yes, 4m in OB and 12 meter bench height is proposed in mineral.	Nil
3m	Total area covered under excavation/pits	6.10 Ha	5.80 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.066	1: 0.060	Nil
3o	Total area put in use under different heads at the end of year	Area Under Mining: 8.10 Top Soil stacking: 0.50 O/B Dumping: 3.90 Mineral Storage: 5.30 Infrastructure : 1 Roads: 1.00 Total: 19.80	Area Under Mining: 6.3 Top Soil stacking: 0.10 O/B Dumping: 3.00 Mineral Storage: 4.4 Infrastructure: 1 Roads: 1.00 Total: 16.96	Nil
3p	Production of ROM mineral during the last five year period as applicable	2020-21=3600000 t, 2021-22=5000 t, 2022-23=10000 t, 2023-24=10,00,000 t	2020-21= Nil, 2021 - 2022 =3580 t 2022 - 2023= 9600 t 2023 - 2024= 9,82,953 t	Nil

3q	General remarks of inspecting officers on method of mining etc.	The mining operations are being carried out by fully mechanised open cast mining.	The mining operations are being carried out by fully mechanised open cast mining.
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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)	Proposal has been given 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.	Nil
4b	Location of topsoil, OB and mineral reject dumps	e) DUMP (EASTERN PART) PROPOSED f) DUMP (WESTERN PART) PROPOSED: N 1828338.7 - 1828511.1 E 363439 - 363608.8 N 1828452.4 E 364244	a)TOP SOIL STACK (NORTHERN SIDE) ACTUAL N 1828542.1 - 1828596.3 E 363809.7 - 363981 d) DUMP (SOUTHERN PART) ACTUAL: N 1828140.7 - 1828017.3 f) DUMP (WESTERN PART) ACTUAL: N 1828334.5 - 1828469.2 E 363318.1 - 363574.7 e) DUMP (EASTERN PART) ACTUAL N 1828484.7 E 364276.2 E 363306.1 - 363603.3	Deviation has been observed for proposals against actual inrespect of top soil and dumps. Accordingly, a violation letter has been issued to the lessee.
4c	Number of dumps within lease area and outside of lease area	Within Lease Area Top Soil Dump: 01 No. O/B Dump: 02 Nos. Outside Lease Area: NIL	Within Lease Area Top Soil Dump: 01 No. O/B Dump: 02 Nos. Outside Lease Area: NIL	Nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	Nil
4e	Number of active and alive dumps.	O/B Dump No. 01 O/B Dump No. 02	O/B Dump No. 01 O/B Dump No. 02	Nil
4f	Number of dead dumps.	No proposal	Nil	Nil
4g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and Garland drain is to be maintained all along the dumps.	Retaining wall and Garland drain maintained all along the dumps.	Nil
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall: 400 Mtrs Garland Drain: 400 Mtrs	Retaining Wall: 405 Mtrs Garland Drain: 405 Mtrs	Nil
4j	Number of settling ponds	No proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management			Deviation has been observed for proposals against actual in respect of top soil and dumps. Accordingly, a violation letter has been issued to the lessee.

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	Nil

5b	Area under backfilling of mined out area	No Proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	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.	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).	As per the rule 26(2), lessee has to submit the annual report before 1st day of july of every year.	As per the rule 26(2), lessee has submitted the annual report .	Nil
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	Nil
6c	afforestation done (ha).	No Proposal	Nil	Nil
6d	No. of saplings planted during the year	No Proposal	Nil	Nil
6e	Cumulative no .of plants	No Proposal	Nil	Nil

6f	Any other method of rehabilitation	No Proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	No Proposal	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1200 Nos	1200 Nos	No deviation

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 ha	1.0ha	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By plantation	By plantation	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to carry out quarterly monitoring of the environmental parameters.	Regular quarterly monitoring of environmental parameters being carried out and the all the parameters are within permissible limits.	No deviation.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The lessee is implementing all the proposals as made in the approved document related to Progressive Mine closure.	The lessee is implementing all the proposals as made in the approved document related to Progressive Mine closure.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed that entire mineral produced would be utilised in the crusher plant of the lessee.	Being done as per proposal.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	There is no proposal for grade-wise sorting.	ROM /Ore is being dispatched to the captive plant without sorting.	ROM /Ore is being dispatched to the captive plant without sorting.

7c	Different grade of mineral sorted out at mines.	-do-	-do-	Nil
7d	Any beneficiation process at mines .	There is no proposal for any beneficiation at mines.	No beneficiation practice was noticed at the mines.	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.	Total ROM is utilised for cement plant. Hence beneficiation is not required.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil for concurrent use as well as for keeping stock.	Top Soil is being removed separately and utilized concurrently for plantation and keeping stock.	Nil
8b	Concurrent use or storage of topsoil	For concurent use for plantation.	Concurent use for plantation only.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden. There is no waste and mineral reject .	Overburden is dumped separately. No waste rock / reject, complete ROM is used for cement manufacturing.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	1.0 ha area will be utilized for plantation of 1200 nos. saplings.	1. ha of area has been utilized for plantation of 1200 nos of saplings.	No deviation.
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.	1200 nos of saplings have been planted over 1.0 ha area.	Nil
8g	Survival rate	85 %	85 %	Nil
8h	Water sprinkling on roads to control airborne dust	It was proposed to control dust suppression by way of water sprinkling.	Same was noticed during the inspection	No deviation.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Lessee is implementing all the measures related to maintaining environmental balance.	The over all aesthetic beauty can be rated as above average.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns submitted up to june 2024 and Annual return submitted up to 2023-24.	Monthly returns submitted up to june 2024 and Annual return submitted up to 2023-24.	Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Managen - Shri Kiran Naidu, Mining Engineer - Shri Kiran Naidu, Geologist - Shri GNS Ranga Rao.	Same was confirmed duirng the inspection.	No deviation.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1) Area covered under current workings=5.8 ha., 2) Area used for waste disposal =3.42 ha., 3) Area used for infrastructure = 4.4 ha., 5) Others = 3.0 ha.	The same was confirmed duirng the inspection.	Nil
9d	Scrutiny of Annual return on afforestation	1200 nos. of saplings planted with in the lease area .	Same was noticed duirng the inspection.	No comments.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM =Nil, cement grade limestone = 284963 t	ROM =Nil, cement grade limestone = 284963 t	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The Ex-mine price reported as 278.03, cost of production = 278.03 ha	The same was confirmed duirng the inspection.	Nil
9h	Scrutiny of Annual return on fixed assets	The fixed assets value reported as per 2023-24 annual return was 225 crores.	The same was not scrutinised.	Nil

9k	Scrutiny of Annual return on mining machineries	1) Back Hoe=03 nos. 2) Dumper = 03 no. 3) Tipper = 04 nos. 4) Dozer = 01 no. 5) Blast host drill = 01 no. 6) Motor grader = 01 no. 7) Front end loader = 01no. 8) Road roller =01 no. 9) Water tanker = 01 no. 10) HEMmachinery=0 6 nos.	Same were confirmed duirng the inspection.	Nil
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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)	09/07/2024			

Date :

(D.P.Ravi kumar)

Indian Bureau of Mines