

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/KNL/LST-192/HYD

Mine code : 38APR11163

- (i) Name of the Inspecting : **K007**) **SHAIVAL KARTIKEYA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri E Vasudevan, Manager (Mines)
Official with
Designation
- (iv) Date of Inspection : 09-AUG-23
- (v) Prev.inspection date : 22-SEP-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **YANAKANDLA (343.22 HA)**
- (b) **Registration NO.** : **IBM/12134/2012**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : **ANDHRA PRADESH**
District : **KURNOOL**
Village : **YANAKANDLA**
Taluka : **KURNOOL**
Post office : **BANAGANAPALLE**
Pin Code : **518124**
FAX No. : **085151-200507**
E-mail : **guruvureddy.b@myhomegroup.:**
Phone : **08515-200508**
- (f) Police Station : **BANAGANAPALLI**
- (g) First opening date : **12-MAR-12**
- (h) Weekly day of rest : **SUN**
2. Address for : **YANAKANDAL VILLAGE & POST**
correspondance : **BANAGANAPALLE MANDALAM**
KURNOOL DIST ,ANDHRAPRADESH-PINCODE 518124
3. (a) Lease Number : **APR3286**
- (b) Lease area : **322.84**
- (c) Period of lease : **50**
- (d) Date of Expiry : **02-JAN-62**
4. Mineral worked : **LIMESTONE** Main

5. Name and Address of the

Lessee : M/S.SREE JAYAJOTHI CEMENTS LTD
KURNOOL ANDHRA PRADESH
Phone:
FAX :

Owner : Sri Chandra Shekher Pandey
Srinagar, Yanakandla
village,
Mandal.Banaganapalli,Yanaka
ndla, Dist.Kurnool.A.P.
518124. KURNOOL ANDHRA
PRADESH
Phone:
FAX :

Agent : B C Gurivi Reddy
Yanakandla, Banaganapalli
, Kurnool Distt, A.P
KURNOOL ANDHRA PRADESH
Phone:
FAX :

Mining Engineer

Name : P SANYASI NAIDU,Full Time
Qualification : BTECH (MINING)
Appointment/ : 12-NOV-20
Termination date

Geologist

Name : GANESH NARENDRA REDDY,Full Time
Qualification : MSC GEOLOGY
Appointment/ : 21-SEP-17
Termination date

Manager

Name : K.RAJENDER
Qualification : B TECH MINING
Appointment/ : 09-DEC-20
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	22-APR-09
		Modif.of approved Mining Plan	13-JAN-11
		Modif.of approved Mining Plan	19-MAY-15
		MP modif under MCR 1960	08-MAR-16
		MP modif under 17(3) MCR 2016	09-NOV-20

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 potentially mineralized area has already been explored under G1 level.	Area covered under Exploration: G1 Level: 287.231 Ha. Non-Mineralised: 35.606 Ha.
1b	Exploration over lease area for geological axis 1 or 2	No proposal.	-do-	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal.	-do-	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	-do-	-do-
1e	Balance reserve as on 01/04/20	Balance Reserves and Resources as on 01/04/2023	Balance Reserves and Resources as on 01/04/2023	Updated reserves and resources have been obtained from the latest approved Modified Mining Plan dated 07/03/2023
		Under (111): 39.704 Million Tonnes	Under (111): 39.704 Million Tonnes	Average Grade of Limestone:
		Under (121): 0.315 Million Tonnes	Under (121): 0.315 Million Tonnes	For reserves CaO: 45.73%, MgO: 0.53%, SiO2: 14.90%
		Under (211): 30.221 Million Tonnes.	Under (211): 30.221 Million Tonnes.	For resources CaO: 38.94% MgO: 0.80% SiO2: 23.39%

1f	General remarks of inspecting officers on geology, exploration etc	The rocks in the Mining Lease area are of late Proterozoic age and are of flat bedded sedimentary nature. The mining lease area exposes mainly the massive Narji limestone. The lithological sequence of the Yanakandla and Pathapadu Blocks area is as follows.	Soil Recent Kankar Recent Light grey thin bedded flaggy Limestone. Light grey thick bedded Limestone Narji Limestone Pink siliceous Limestone (Observed in the ML area) Green siliceous Limestone with inter bands of Pink siliceous Limestone Pink/purple shale The pink / purple shale represent the beginning of the lower flaggy sequence.	All the limestone units are basically micrites and break with conchoidal fracture. Pink siliceous limestone, green siliceous limestone and Pink / Purple Shale are considered as Foot Wall Rocks (FWR).
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	F.Y. 2022-23: (i) Pathapadu Block: N1699425 to N1700755 and E198155 to E198805. (ii) Yanakandla Block: N1697935 to N1698895 and E194230 to E195520.	F.Y. 2022-23: (i) Pathapadu Block: N1699425 to N1700755 and E198155 to E198805. (ii) Yanakandla Block: N1697935 to N1698895 and E194230 to E195520.	Broadly production and development has been done in the proposed area.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil: Nil. Overburden: Nil. Mineral/Ore: 04 nos.	Topsoil: Nil. Overburden: Nil. Mineral/Ore: 04 nos.	-
2c	Stripping ratio or ore to OB ratio	1 : 0.0	1 : 0.0	No overburden/waste has been generated during F.Y. 2022-23.

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			The development and production is being done through fully mechanized means.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Yanakandla Block: 01 no. Pathapadu Block: 01 no.	Yanakandla Block: 01 no. Pathapadu Block: 01 no.	-
3b	Quantity of ROM mineral production proposed	2300000.00 Metric Tonnes.	1655000.00 Metric Tonnes.	Less production has done due to lack of market demand.
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	-
3d	Quantity of mineral reject generation	No proposal.	6855.00 Metric Tonnes of Mineral Reject has been generated during F.Y. 2022-23.	-
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	CaO: 38.94% MgO: 0.80% SiO2: 23.39%	-
3f	Quantity of sub grade mineral generation.	No proposal.	Nil.	-
3g	Grade of sub grade mineral generation	No proposal.	Nil.	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised crushing and screening have been proposed.	Mehanised crushing and screening is being done.	-

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	Diameter: 115.0 mm Spacing: 8.0 m Burden: 3.0 m Depth: 8.0 m Explosive: AFNO	Diameter: 115.0 mm Spacing: 8.0 m Burden: 3.0 m Depth: 8.0 m Explosive: AFNO	-
3k	Provision of mining machineries in mineral benches	1. Hydraulic Excavator 03 nos. with 2.5 CuM (02 nos.) and 1.0 CuM (01 no.) bucket capacity. 2. Crawler Drill 01 no. with 115 mm bit diameter. 3. Tippers 10 nos. with 25.0 Tonnes carrier capacity 4. Dozer 01 no. with 55 HP capacity. 5. Explosive Van 01 no. with 10 Metric Tonne capacity. 6. Water Tanker 01 no. with 10 Kilo Liter capacity. 7. Pump 01 no. with 22 H.P. capacity. 8. Jeep 01 no. with 60 H.P. capacity.	1. Back Hoe 03 nos. with 2.5 CuM (02 nos.) and 1.0 CuM (01 no.) bucket capacity. 2. Tippers 14 nos. with 10.0 Tonnes capacity. 3. Dozer 01 no. with 55 HP capacity. 4. Explosive Van 01 no. with 10 Metric Tonne capacity. 5. Water Tanker 01 no. with 16000 Liter capacity. 6. Rock Drill 01 no. with 115 mm bit diameter. 7. Pump 01 no. with 660 Liters Per Minute capacity. 8. Jeep 01 no. with 60 H.P. capacity.	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB/Waste: Nil. Mineral/Ore: 8.0 m	OB/Waste: Nil. Mineral/Ore: 8.0 m	-

3m	Total area covered under excavation/pits	Excavation/Pit : 104.83 Ha. up to end of F.Y. 2025-26.	Excavation/Pit: 69.989 Ha. up to end of F.Y. 2022-23.	-
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.0	1 : 0.0	No overburden/waste has been generated during F.Y. 2022-23.
3o	Total area put in use under different heads at the end of year	Pit: 104.83 Ha. Waste/reject- Nil. Others- 18.94 Ha. Up to end of F.Y. 2025-26	Pit: 69.989 Ha. Waste/reject- Nil. Others- 16.834 Ha. Up to end of F.Y. 2022-23	-
3p	Production of ROM mineral during the last five year period as applicable	Yr. 2018-19: 1500000.00 Metric Tonnes Yr. 2019-20: 1350000.00 Metric Tonnes Yr. 2020-21: 1200000.00 Metric Tonnes Yr. 2021-22: 2295752.00 Metric Tonnes Yr. 2022-23: 2300000.00 Metric Tonnes	Yr. 2018-19: 1875000.00 Metric Tonnes (Insitu: 1770000.00 Metric Tonnes + Dump Working: 105000.00 Metric Tonnes) Yr. 2019-20: 1500000.00 Metric Tonnes (Insitu 1430000.00 Metric Tonnes + Waste Dumping 70000.00 Metric Tonnes) Yr. 2020-21: 1080000.00 Metric Tonnes Yr. 2021-22: 1437000.00 Metric Tonnes Yr. 2022-23: 1655000.00 Metric Tonnes	-
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
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal.	Generated 6855.0 Metric Tonnes of mineral-reject has been stacked in Yanakandla Block in between UTM co-ordinates (i) N1700850 to N1700980 and E198615 to E198710 (ii) N1701050 to N1701075 and E198560 to E198586	Existing dump of the mineral-reject Yanakandla Block: (i) N1700590 to N1700685 and E199000 to E199090 (ii) N1700730 to N1700920 and E198840 to E199040 Mineral Stocks in Pathapadu Block: N1697840 to N1699035 and E193920 to E195630
4b	Location of topsoil, OB and mineral reject dumps	No proposal.	Mineral Reject have been stacked in between UTM co-ordinates in Yanakandla Block: (i) N1700850 to N1700980 and E198615 to E198710 (ii) N1701050 to N1701075 and E198560 to E198586	-
4c	Number of dumps within lease area and outside of lease area	No proposal.	Yanakandla Block Mineral/Ore: Nil. Minerals Reject: 04 nos. Pathapadu Block Mineral: 01 no. Mineral-reject: Nil.	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	02 nos. of dumps of mineral-reject at Yanakandla Block in between UTM co-ordinates (i) N1700850 to N1700980 and E198615 to E198710 (ii) N1701050 to N1701075 and E198560 to E198586 are situated within ultimate pit limit.	-do-
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			Nil.

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	0.25 Ha. area will be utilized for plantation of 250 nos. of saplings at non-mineralized and 7.5 barrier zone.	0.30 Ha. area has been utilized for plantation of 530 nos. of saplings at non-mineralized and 7.5 barrier zone.	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Nil.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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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.	Annual report on PMCP for F.Y. 2022-23 has been submitted before due date.	Given information has been cross verified during inspection.
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	250 nos.	530 nos.	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.25 Ha.	0.30 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)	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)	F.Y. 2022-23: 0.25 Ha. area will be utilized for plantation of 250 nos. of saplings.	F.Y. 2021-22: 0.30 Ha. area has been utilized for plantation of 530 nos. of saplings.	Planation has been done along the 7.50 m barrier zone and in the non-mineralised zone.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	250 nos. of saplings will be planted over 0.25 Ha. area.	530 nos. of saplings have been planted over 0.30 Ha. area.	-
8g	Survival rate	No proposal.	Approximate 70%	-
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 August 2023 A.R. Submitted up to F.Y. 2022-23	M.R. Submitted up to August 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 E Vasudevan Mining Engineer: Shri K. Madhu Geologist: Shri R. Prasanna Kumar	Manager: Shri E Vasudevan Mining Engineer: Shri K. Madhu Geologist: Shri R. Prasanna Kumar	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 69.989 Ha. Waste/reject- Nil. Others- 16.834 Ha. Up to end of F.Y. 2022-23	Pit: 69.989 Ha. Waste/reject- Nil. Others- 16.834 Ha. Up to end of F.Y. 2022-23	Nil.
9d	Scrutiny of Annual return on afforestation	Within lease area: 530 nos. with 70% survival rate Outside lease area: 140 nos. with 70% survival rate.	Within lease area: 530 nos. with 70% survival rate Outside lease area: 140 nos. with 70% survival rate.	Nil.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject: 6855.00 Metric Tonne Grade: CaO: 38.94% MgO: 0.80% SiO2: 23.39%	Mineral Reject: 6855.00 Metric Tonne Grade: CaO: 38.94% MgO: 0.80% SiO2: 23.39%	Nil.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock ROM: Nil. Graded Ore (Cement Grade): Nil.	Closing Stock ROM: Nil. Graded Ore (Cement Grade): Nil.	Nil.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: Nil. Ex-mine Price: Rs. 167.92 Per Metric Tonne Cost of Production: Rs. 169.72 Per Metric Tonne	Sale value: Nil. Ex-mine Price: Rs. 167.92 Per Metric Tonne Cost of Production: Rs. 169.72 Per Metric Tonne	Nil.
9h	Scrutiny of Annual return on fixed assets	Rs. 15492947/-	Rs. 15492947/-	Nil.
9k	Scrutiny of Annual return on mining machineries	1. Back Hoe 03 nos. with 2.5 CuM (02 nos.) and 1.0 CuM (01 no.) bucket capacity. 2. Tippers 14 nos. with 10.0 Tonnes capacity. 3. Dozer 01 no. with 55 HP capacity. 4. Explosive Van 01 no. with 10 Metric Tonne capacity. 5. Water Tanker 01 no. with 16000 Liter capacity. 6. Rock Drill 01 no. with 115 mm bit diameter. 7. Pump 01 no. with 660 Liters Per Minute capacity. 8. Jeep 01 no. with 60 H.P. capacity.	1. Back Hoe 03 nos. with 2.5 CuM (02 nos.) and 1.0 CuM (01 no.) bucket capacity. 2. Tippers 14 nos. with 10.0 Tonnes capacity. 3. Dozer 01 no. with 55 HP capacity. 4. Explosive Van 01 no. with 10 Metric Tonne capacity. 5. Water Tanker 01 no. with 16000 Liter capacity. 6. Rock Drill 01 no. with 115 mm bit diameter. 7. Pump 01 no. with 660 Liters Per Minute capacity. 8. Jeep 01 no. with 60 H.P. capacity.	Cross verified from the machinery logbooks.

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 :

(SHAIVAL KARTIKEYA)

Indian Bureau of Mines