

MCDR INSPECTION REPORT for F.Y-2023-24

File No. AP/NLG/LST-10/Hyd.

Mine Code: 38APR14009

1	Name of the Inspecting Officer	Shri Ejaj Ahmad Khan
2	Designation	Assistant Mining Geologist
3	Accompanying mine Official with Designation	Shri Y.Karunakar Rao (Mines Manager), Shri C. Sreenivasa Reddy (Mining Engineer)
4	Date of inspection	18-january-2025
5	Previous inspection date	20-March-2024

Part -I General Information

S. N.	Particulars	Details
1	Name of the Mine	Sri Sankara Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest- Nil. Non-Forest: 141.7 Ha. Total Lease Area: 141.7 Ha.
3	Minecode	38APR14009
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/6499/2011
5	Name of the lessee, Address, phone, email and fax number	Keerthi Industries Ltd, Mellacheruvu (V&M), 9553302379, mines@keerthiindustries.com
6	Village	Mellacheruvu
7	Taluk/Mandal	Mellacheruvu
8	District	Suryapet
9	Pincode	508246
10	State	Telangana
11	Post office	Mellacheruvu
12	Nearest police station	Mellacheruvu
13	Nearest Railway station	Mellacheruvu
14	Date of Grant of Mining Lease	24-04-1986
15	Date of Execution	26-04-1986
16	Date of opening of Mine	26-04-1986
17	Date of first Renewal, if applicable and its period & expiry	Renewal Application on 24-01-2005 & Deemed Extention up to 2036 in Progress.
18	Date of second Renewal, if applicable and its period & expiry	N.A., Date of expiry: 23-04-2036
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	24-01-2005
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri J.S.Rao ,Polt No.40,IDA, Balanagar, Hyderabad – 500037. Email: mohan@indiacements.co.in DOA: 01/11/2023
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri K.V. Buchhi Babu Address: Q.No : E-04, Suvarana Colony, Keerthi Industries Ltd, Mellacheruvu(Post and Mandal),Suryapet (Dist),Telangana. 9553302375, planthead@keerthiindustries.com Date of Appointment:12-01-2023.DOA: 22/04/2024
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Y.Karunakar Rao, Address : Q.No –E-10, Suvarana Colony, Keerthi Industries Ltd,Mellacheruvu(Post and Mandal),Suryapet (Dist),Telangana 9553302379, mines@keerthiindustries.com Date of Appointment : 21-11-2022

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri C. Sreenivasa Reddy, Diploma(Mining), Experience: 12 Years above, Address ; Q.No –E2, Suvarana Colony, Keerthi Industries Ltd,Mellacheruvu(Post and Mandal),Suryapet (Dist),Telangana 9666876464, mines@keerthiindustries.com Date of Joining : 30-09-2023
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, Appointed. Shri. S. Janakiram Address; Q.No –E2, Suvarana Colony, Keerthi Industries Ltd,Mellacheruvu(Post and Mandal),Suryapet (Dist),Telangana 9666876464, mines@keerthiindustries.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan AP/NLG/Lst-155-SZ dated 11/10/2007 (F.Y. -2007-08 to F.Y. 2011-12)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan AP/NLG/LST-10/Hyd. Dated 24/03/2022 (F.Y. 2022-23 to 2026-27)
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized.
30	Captive/ Non captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

S.N.	Item	Proposals F.Y 2023-24	Actual work F.Y 2023-24	Remarks
1a	Backlog of previous year	No Proposal	Not Applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	07 Nos. boreholes and 07 Nos. DTH boreholes proposed in the year 2025-26 & 2026-27.	Nil.	The lease area spans 141.7 hectares, of which only 78.34 hectares have been explored to G1 level. The remaining area requires further exploration
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	----	G1:78.34 Ha G2:31.48 Ha G3:10.27 Ha G4:21.61Ha	
1e	Balance reserves as on 01-04-2024	As per approved RMP documents dated 24.03.2022, Resource and	Resource and Reserve as on 01-04-2024.	

		reserve estimation as on Sept. 2021. Under (111)-25.798 Million tonnes. Under (121)-5.234 Million tonnes. Under (211)- 5.158 Million tonnes. Under (334)-36.191 Million tonnes	Under (111)-24.250 Million tonnes. Under (121)-5.234 Million tonnes. Under (211)-5.158 Million tonnes. Under (334)-36.191 Million tonnes	
If	General remarks of inspecting officer on geology, exploration etc.			The Geology of the lease area are belonging to Palnad sub basin (Narji Formation) of Proterozoic age. Lithostartigraphic succession of lease area comprises Soil, Grey limestone which predominantly exposed in Pit-1 Pit-2, green limestone, siliceous limestone with no major structural disturbance.

Development

S.N.	Item	Proposals F.Y 2023-24	Actual work F.Y 2023-24	Remarks
2a	Location of development w.r.t. lease area	It was proposed to produce between the coordinates N1856950 to N 1857170 & E 384380 to E 384670 in pit -1, N 1857465 to N 1857740 and E 385265 to 385360 in pit-2 and N 1857810 to 1858080 and E 385820 to 386050 in Pit-4.	Development have been carried out between UTM co-ordinate N1856923.66 to N1857133.42 and E384566.51 to E384534.01 for Pit-1, N1857513.7 to N1857593.2 and E385374.5 to E385374.7 and N1857562.9 to N185755.8 and E385369.4 to E3845388.2 for Pit-2 N1857925.7 to N185892.4 and	Deviation pointed out. Violation issued.

			E386019.6 to E385915.1 for pit-4	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes, Nos. of Benches Topsoil: Nil Mineral: 03 Overburden: Nil	Nos. of Benches Topsoil: Less than one meter Mineral: 03 Overburden: Nil	Very thin layer of topsoil observed which have been used for plantation.
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	No overburden has been generated in the mining lease area, as the mineral deposit is exposed at the surface.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development and production is being done through fully mechanized means.		

Exploitation

S.N.	Item	Proposals F.Y 2023-24	Actual work F.Y 2023-24	Remarks
3a	Number of pits proposed for production	Pit-1 Pit-2 Pit-4	Work have been carried out from proposed pit.	
3b	Quantity of ROM mineral production proposed	7,53,510 MILLION TONNES	5,34,962 MILLION TONNES	Lessee has reported that less production due market slowdown .
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	

3h	Manual / Mechanized method adopted for segregating from ROM	No proposal	Nil	The entire produced limestone is being dispatched to the crusher, erected outside lease area.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	
3j	Provision of drilling & blasting in mineral benches	It was proposed to use wagon drills, excavators & dumpers for drilling, loading & transporting of ore to crushing plant.	Drilling and Blasting done as per the Approved Mining Plan	
3k	Provision of mining machineries in mineral benches	It was proposed to work with shovel and tipper.	Work carried out as per approved mining plan	
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 8 meters.	Bench height has maintained 8 meters	
3m	Total area covered under excavation/pits	49.68 Ha	47.65 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	Area under Mining 48.28 Ha (infrastructure Work shop, Office Building etc.) 0.205 Ha Roads-1.197 Ha	Area under Mining 46.248 Ha (infrastructure Work shop, Office Building etc.) 0.205 Ha Roads-1.197 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	Proposed (in MILLION TONNES) 2019-20: 0.737 MILLION TONNES 2020-21: 0.798 MILLION TONNES 2021-22: 0.783 MILLION TONNES 2022-23: 0.752 MILLION TONNES 2023-24: 0.753 MILLION TONNES	Actual (in MILLION TONNES) 2019-20: 0.64 MILLION TONNES 2020-21: 0.64 MILLION TONNES 2021-22: 0.59 MILLION TONNES 2022-23: 0.64 MILLION TONNES 2023-24: 0.57MILLION TONNES	
3q	General remarks of inspecting officer 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

S.N.	Item	Proposals F.Y 2023-24	Actual work F.Y 2023-24	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not Proposed	Nil	
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	Nil	No dumps are existing within the lease area.
4c	Number of dumps within lease area and outside lease area	Not Proposed	Nil	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	Nil	-do-
4e	Number of active & alive dumps	Not Proposed	Nil	-do-
4f	Number of dead dumps	Not Proposed	Nil	-do-
4g	Number of dumps stabilized	Not Proposed	Nil	-do-
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	Nil	
4j	Number of settling ponds	Not Proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management.			No dump site available in the mining lease area.

Solid Waste Management-Backfilling

S.N.	Item	Proposals F.Y 2023-24	Actual work F.Y 2023-24	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	For backfilling no proposal was given	Nil	
5b	Area under backfilling of mined out area	Not Proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal given	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal given	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.,	Excavation has not reached the ultimate pit limit to start backfilling.		

Progressive Mine Closure Plan

S.N.	Item	Proposals F.Y 2023-24	Actual work F.Y 2023-24	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	To be submitted in time	submitted in time	PMCP report submitted along with Annual returns F.Y-2023-24
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	Not Proposed Afforestation done (ha): 0.15 Ha 250nos. 25000/.	Nil Afforestation done (ha): 0.15 Ha Saplings planted during the year: 272nos. Cumulative no. of Plant: 19942 nos.	Total plantation made so far is 19942 and area covered is 9.95 Ha.
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	No Proposal	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposal	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly environmental monitoring of core and buffer zone.	Air Quality, Water analysis and Noise studies have been done Quarterly.	All the parameters are within the permissible limits

6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities.
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Mineral Conservation

S.N.	Item	Proposals F.Y 2023-24	Actual work F.Y 2023-24	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM mineral to be consumed by cement plant.	Entire ROM mineral dispatches to cement plant.	No mineral processing work has been carried out at mine site.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No Proposal	NA	Entire ROM dispatch to crusher at cement plant.
7c	Different grade of mineral sorted out at mines	No Proposal	NA	
7d	Any beneficiation process at mines	No Proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil		

Environment

S.N.	Item	Proposals F.Y 2023-24	Actual work F.Y 2023-24	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Nil	Very less Top Soil is available and utilized for Plantation.
8b	Concurrent use or storage of topsoil	No Proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Applicable	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Applicable	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	250 saplings to be Planted	272 saplings Planted	
8g	Survival rate	--	75%	

8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression.	Water sprinkling done regularly with 5KL Water Tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Greenbelt development is well developed within the lease area to maintain the aesthetic beauty		

Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to December 2024 A.R. Submitted up to F.Y. 2023-24	

S.N.	Item	Details GIVEN in A.R. for F.Y 2023-24	Observation of I/Officer for F.Y 2023-24	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Y.Karunakar Rao- Manager. C. Sreenivasa Reddy Mining Engineer S.Janakiram - Geologist	Same was present during inspection	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Openpit-46.28 Ha Infrastructure- 1.40Ha OB/Waste- Nil.	Openpit-46.28Ha Infrastructure- 1.40Ha	
9d	Scrutiny of Annual return on afforestation	Within ML: 272nos. with 93% survival rate. Outside ML: 107 nos. with 93% survival rate	Same was observed during inspection	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: Nil. Grade: Nil.	Entire ROM dispatch to crusher at cement plant.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore N	Cement Grade Limestone Closing stock: 80026.000 Tonnes.	Same was observed during inspection.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value: Rs. 135035108.04 Ex-mine Price: Rs. 252.42 Per Metric Tonne Cost of Production: Rs. 252.42 Per Metric Tonne	In cost of production table, lessee has mentioned both dead rent and royalty which is incorrect. Show cause has been issued.	
9i	Scrutiny of Annual return on fixed assets	Rs. 2228879/.	The details of amount mentioned in description at the beginning of the year for Building and plant	

			<p>machineries are not matching with net closing balance submitted in A.R for F.Y 2022-23. Show cause has been issued.</p>	
9k	Scrutiny of Annual return on mining machineries	<p>1. Back Hoe 01 no. 0.9 CuM bucket capacity. 2. Tippers 6 nos. with 10.50 CuM carrying capacity. 3. Water Tanker 01 no. with 4000 Liters capacity. 4. Air Compressor 01 no. with 450.0 CuM/MN capacity. 5. Blast Host Drill Machine 01 no. with 115.0 mm bit size. 6. Pump (Electric) 2nos. with 1250 L/MN 7. Generator (Diesel) 01 nos. with 4.0 KwH</p>	<p>1. Back Hoe 01 no. 0.9 CuM bucket capacity. 2. Tippers 6 nos. with 10.50 CuM carrying capacity. 3. Water Tanker 01 no. with 4000 Liters capacity. 4. Air Compressor 01 no. with 450.0 CuM/MN capacity. 5. Blast Host Drill Machine 01 no. with 115.0 mm bit size. 6. Pump (Electric) 2nos. with 1250 L/MN 7. Generator (Diesel) 01 nos. with 4.0 KwH</p>	

Details of violations observed during current inspection: Rule of 11(1), 34A(1) of MCDR,2017 and Show-cause on Rule 45(7) of MCDR,2017

**Ejaj Ahmad Khan
Assistant Mining Geologist**