

MCDR INSPECTION REPORT

For the Year 2023-24

S. No	Particulars	Details
1	Name of the Mine	Kakatiya Limestone Mine
2	Total Lease Area (Ha) with breakup of non-forest and forest land	121.41 Ha.
3	Minecode	38 APR 10004
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/985/2011
5	Name of the lessee, Address, phone, email and fax number	Kakatiya Cement Sugar & Industries Ltd. #1-10-140/1, Gurukrupa Ashoknagar, Hyderabad-500 020 040-27637717, 27633627, hrd@kakatiyacements.com
6	Village	Budavada
7	Taluk/Mandal	Jaggayyapet
8	District	NTR Dist
9	Pincode	521175
10	State	Andhra Pradesh
11	Post office	Srinivasa Nagar
12	Nearest police station	Chillakallu
13	Nearest Railway station	Bonakal
14	Date of Grant of Mining Lease	20. 05.1982
15	Date of Execution	20.05.1982
16	Date of opening of Mine	20.11.1982
17	Date of first Renewal, if applicable and its period & expiry	18.03.2002
18	Date of second Renewal, if applicable and its period & expiry	15.02.2018 up to 18.05.2032
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	14.05.2001
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	P.Veeraiah, Kakatiya Cement Sugar & Industries Ltd. #1-10-140/1, Gurukrupa, Ashoknagar, Hyderabad-500 020 040-27637717, 27633627, hrd@kakatiyacement.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	D.G.K. Raju Kakatiya Cement Sugar & Industries Ltd. Srinivasanaagar, Jaggayyapet, NTR Dist, AP. 9492124319 kcsilc@kakatiyacements.com , 01.06.2017
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Ch.Srinivas (Mines Manager) Kakatiya Limestone Mine Kakatiya Cement Sugar & Industries Ltd. Srinivasanaagar, Jaggayyapet,

		NTR Dist, AP. 949165558
		kcsilc@kakatiyacements.com ,
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	P. RAMESH (MSc.Geology) & 30.03.2.24
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	01.04.2022 (2022-23 to 2026-27)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	AP/KSN/MP/LST-28/HYD Dated 01.04.2022
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/ Non captive	Captive
31	Date of inspection	25.11.2024

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	Actual work	Remarks
1a	Backlog of previous year	No such specific proposal	None	Nil
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Entire mineralised area has been explored under G1 level.	Entire mineralised area has been explored under G1 level.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Entire mineralised area has been explored under G1 level.	No comments to offer.
1e	Balance reserves as on 31.03.2024		45.83 million Tonnes	Nil
1f	General remarks of inspecting officer on geology, exploration etc.		The lessee has carried out exploration over entire potentially mineralised area under G1 scale.	The lessee has complied with the provisions of MCDR,2017 pertaining to drilling/exploration. The Limestone deposit of the Mining lease falls under the Palnadu basin which is equivalent of Narji formation of Kurnool basin.

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N 1864079 E 399168	The excavation of the limestone being done from the site as proposed.	No deviation noticed.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposal	Nil	Nil
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.05	Nil
2d	Quantity of topsoil generation in m3	No proposal	Nil	Nil
2e	Quantity of overburden generation in m3	10341	9643	Nil
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mine developed along dip direction towards North & East Side	The development being done as proposed.	No deviation noticed.

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	No deviation.
3b	Quantity of ROM mineral production proposed	491197 t	350000 t	Nil
3c	Recovery of salable/usable mineral from ROM production	491197 t	350000 t	Nil
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral reject generation and threshold value declared	No proposal.	Nil	Nil
3f	Quantity of sub-grade mineral generation	No proposal.	Nil	Nil
3g	Grade of sub-grade mineral generation	No proposal.	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	None	None	None
3j	Provision of drilling & blasting in mineral benches	drilling and blasting is proposed.	drilling & blasting is carried out.	Nil
3k	Provision of mining machineries in mineral benches	It was proposed to use Back hoe and tippers for	same was noticed during the inspection.	No deviation.

		excavating the mineral and transporting the same.											
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 m	maintained.	No deviation									
3m	Total area covered under excavation/pits	39.1380 Ha	34.200 Ha	Nil									
3n	Ore to OB ratio for the pit/mine during the year	1:0.05	1:0.05	Nil									
3o	Total area put in use under different heads at the end of year	54.454 Ha	52.060 Ha	Nil									
3p	Production of ROM mineral during last five-year period, as applicable	<table border="1"> <tr> <td>2019-20: 467186.250 t</td> <td>2019-20: 393253.000 t</td> </tr> <tr> <td>2020-21: 491012.250 t</td> <td>Yr-2020-21: 292223.390 t</td> </tr> <tr> <td>2021-22: 487620.750 t</td> <td>2021-22: 432500.000 t</td> </tr> <tr> <td>2022-23: 490613.000 t</td> <td>2022-23: 365000.000 t</td> </tr> <tr> <td>2023-24: 491197.500 t</td> <td>2023-24: 350000.000 t</td> </tr> </table>	2019-20: 467186.250 t	2019-20: 393253.000 t	2020-21: 491012.250 t	Yr-2020-21: 292223.390 t	2021-22: 487620.750 t	2021-22: 432500.000 t	2022-23: 490613.000 t	2022-23: 365000.000 t	2023-24: 491197.500 t	2023-24: 350000.000 t	Nil
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3q	General remarks of inspecting officer on method of mining etc.		Production is carried out from one pit by opencast mining method as proposed.	No deviation									

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dump proposed for mineral rejects	Separate mineral reject dump maintained in the earmarked area.	Nil
4b	Location of topsoil, OB & mineral reject dumps	Mineral reject dump proposed at South - East Corner	Mineral reject dump developed and maintained in the proposed area	Nil
4c	Number of dumps within lease area and outside	01	01	Nil

	lease area			
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None	None	Nil
4e	Number of active & alive dumps	01	01	No deviation
4f	Number of dead dumps	None	None	Nil
4g	Number of dumps stabilized	Nil	NIL	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal for the year 2023-24	Nil.	Nil
4i	Length of Retaining wall or garland drain all along dump	No proposal for the year 2023-24	Nil	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management.		solid waste management is carried out as proposed.	solid waste management is carried out as proposed.

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on 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	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal.	Nil	Nil
5d	Total area fully reclaimed & rehabilitated	No Proposal.	Nil	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc		No area matured for reclamation purpose during the year 2023-24	No area matured for reclamation purpose during the year 2023-24.

Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	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.	PMCP report to be submitted before 1 st July	Submitted	Nil
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	i)0 ii)0.2 Ha iii)300 iv) 20000 v)Nil vi) Rs. 600000/-	i)0 ii)0.253 Ha iii)258 iv)18228 v)Nil vi)Rs. 880310/-	
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	NIL	NIL	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NIL	NIL	
6e	Compliance of Environmental monitoring (core zone & 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

6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations		The lessee is implementing all the proposals as made in the approved document related to Progressive Mine closure.	No deviation.
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Mineral Conservation

xS.N.	Item	Proposals	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 cement plant of the lessee.	Same was noticed during the inspection.	No deviation noticed.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	There is proposal for grade-wise sorting.	No such grade wise sorting was noticed.	No deviation noticed.
7c	Different grade of mineral sorted out at mines	None	None	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 deviation noticed.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There was no proposal for grade wise sorting or any other type of beneficiation at mines.	No such activities noticed during the inspection.	No deviation noticed.

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	Nil
8b	Concurrent use or storage of topsoil	No proposal	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	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)	No proposal	Nil	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	300	258	Nil
8g	Survival rate	80 %	80%	
8h	Water sprinkling on roads to control airborne dust	water sprinkling on haul roads for dust suppression is proposed.	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

S.N.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and annual returns are to be submitted as per rule 45 of MCDR, 2017.	Monthly and Annual returns being submitted within the timelines	No deviation
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer= V.Sai Kumar, Geologist: P.Ramesh	found to be in order.	No deviation
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current workings=34.200 ha., area used for waste disposal=2.770 ha., Area occupied by plant, buildings, roads etc=4.090 ha., Area used for plantation=11 ha.	found to be in order.	Nil
9d	Scrutiny of Annual return on afforestation	258 nos. of saplings	found to be in order.	No deviation.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock is Nil	found to be in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production =Rs.231.09	found to be in order	Nil
9i	Scrutiny of Annual return on fixed assets	Rs. 605548	Rs. 605548	Nil
9k	Scrutiny of Annual return on mining machineries	1) Back Hoe=2nos 2) Front end loader=1 no. 3) Tipper =3 nos. 4) Air compressure= 01 nos. 5) Rock drill =01 no. 6) pumps=2 nos.	found to be in order	Nil

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule No.	Issued on	Compliance on
Nil					

Date: 16.12.2024

(D.P.RAVILUMAR)
Junior Mining Geologist

(Name of inspecting officer with designation and date)