

MCDR INSPECTION REPORT

S. No.	Particulars	Details
1	Name of the Mine	MUKTYALA LIMESTONE MINE
2	Total Lease Area (in Ha) with breakup of Non-forest and forest land	Total Lease Area = 368.35 Ha. (910.19 Ac.) Patta Land = 368.35 Ha. (910.19 Ac.) Forest Land = Nil
3	Mine code	38APR10027
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/680/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. The KCP limited, Cement Unit – II, Mukteswarapuram Village, Jaggayyapeta mandal, NTR District, Andhra Pradesh – 521 457. Phone No : 08654 296006 / 7 / 8 Fax No : 08654 296009 E-mail : mines.rkpuram@kcp.co.in
6	Village	Mukteswarapuram
7	Taluka/Mandal	Jaggayyapeta
8	District	NTR District
9	Pin code	521457
10	State	Andhra Pradesh
11	Post office	Mukteswarapuram village
12	Nearest police station	Jaggayyapeta
13	Nearest Railway station	Motumarri
14	Date of Grant of Mining Lease	GO. Ms. No: 585, 03-12-2001
15	Date of Execution	1) Date of Initial Execution on 21-02-2002. 2) Supplementary Lease Deed Executed on 31-03-2023.
16	Date of opening of Mine	10-08-2007
17	Date of first Renewal, if applicable and its period & expiry	First Renewal: 07-02-2018 Period: 50 years & Expiry on 20-02-2052
18	Date of second Renewal, if applicable and its period & expiry	NIL
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	G.O. Ms. No: 24, dated: 07-02-2018
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Dr. V. L. Indira Dutt, CMD, Ramakrishna Buildings, #2, Dr. P.V. Cherian Crescent, Egmore, Chennai, Tamilnadu –600 008. Phone No : 044 66772600. E mail : mines.rkpuram@kcp.co.in Fax No : 044 66772620 Date of Appointment: 19-06-2020

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri. V. Madhusudana Rao, Sr. Vice President (Operations) M/s. The KCP limited, Cement Unit – II, Mukteswarapuram village, Jaggayyapeta mandal, NTR District, Andhra Pradesh – 521 457. Phone No : 08654 296006 / 7 / 8 E-mail : vmr@kcp.co.in Fax No : 08654 296009 Date of Appointment: 20-06-2020
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines, qualification	Sri. B. Anil Kumar, GM (Mines) M/s. The KCP limited, Cement Unit – II, Mukteswarapuram village, Jaggayyapeta mandal, NTR District, Andhra Pradesh – 521 457. Phone No : 08654 296006 / 7 / 8 E-mail : mines.rkpuram@kcp.co.in Fax No : 08654 296009 Date of Appointment: 10-08-2007.
23	Name of the Mining Engineer & Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine,	<u>Mining Engineer:</u> Sri. B. ANIL KUMAR, BE (Mining), Total Experience: 29 years. Date of Appointment: 10-08-2007 <u>Geologist:</u> Sri. T. HEMASUNDARA RAO, M.Sc. (Tech) Applied Geology, Total Experience: 16 years. Date of Appointment: 01-03-2011. M/s. The KCP limited, Cement Unit – II, Mukteswarapuram village, Jaggayyapeta mandal, NTR District, Andhra Pradesh – 521 457. Phone No : 08654 296006 / 7 / 8
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	YES
25	Date of Approval of Mining Plan / Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan : MP/AP/KSN/Lst-40/SZ, Date : 18-10-2001 PMCP : MP/AP/KSN/Lst-40/SZ/400, Date : 06-07-2011
26	Date of Approval of Scheme of Mining / Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Scheme of Mining: AP/KSN/MS/Lst-246- SZ/1258 Date : 14-12-2012 Validity : 31-03-2017 Review of MP : AP/KSN/MP/Lst-27/HYD, Date : 02-01-2017 Validity : 31-03-2022 Review of MP : AP/KSN/MP/Lst-27/HYD, Date : 14-12-2021 Validity : 31-03-2027 Modified Mining Plan: AP/KSN/MP/Lst.-27/HYD Date : 16-07-2024 Validity : 31-03-2027
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)	' A ' Category Fully Mechanized Mine
30	Captive / Non-Captive	Captive
31	Date of inspection	27.11.2024

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. No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed during the year 2023-24	Total 181 no's Core Bore Holes and 9 no's of DTH Bore Holes were drilled for convert the total Lease area in to G1 level.	No comments to offer.
1b	Exploration over lease area for Geological axis 1 or 2	No proposal during the year 2023-24	Total 181 no's Core Bore Holes and 9 no's of DTH Bore Holes were drilled for convert the total Lease area in to G1 level.	Entire mineralised area has been explored under G1 level.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal during the year 2023-24	Entire mineralised area has been explored under G1 level.	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.	Nil
1e	Balance reserves as on 01.04.2024		<u>Reserves:</u> 31,38,09,855 Tones	No comments to offer.
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/explorati on. The Limestone deposit of the Mining lease falls under the Palnadu basin which is equivalent of Narji formation of Kurnool basin.

Development :

S. No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	<u>PIT – I</u> West & South directions N1862308 – N1863264 & E399865 – E401129 <u>PIT – II</u> West & South directions N1862253 – N1862928 & E401147 – E401415	<u>PIT – I</u> West & South directions N1862300 - N1863208 & E400086 – E401129 <u>PIT – II</u> West & South directions N1862242 – N1862928 & E401140 – E401433	Nil
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	OB benches = NIL Mineral benches PIT – I = 5 no's PIT – II = 2 no's	OB benches = NIL Mineral benches PIT – I = 5 no's PIT – II = 2 no's	Mine is completely covered with Outcrops
2c	Stripping ratio or ore to OB ratio	1 : 0	1 : 0	Nil
2d	Quantity of topsoil generation in m ³	No proposal	Nil	Nil
2e	Quantity of overburden generation in m ³	Nil	Nil	Mine is completely covered with Limestone Outcrops.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.		Development is carried out by opencast mining method as proposed.	Development is carried out by opencast mining method as proposed.

Exploitation -

S. No.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Two Pits	Two Pits	No deviation.
3b	Quantity of ROM mineral production proposed	45,00,000 MT	32,36,000 MT	Nil
3c	Recovery of saleable / usable mineral from ROM production	45,00,000 MT	32,36,000 MT	Nil
3d	Quantity of mineral reject generation	NA	NA	Nil
3e	Grade of mineral reject generation and	NA	NA	Nil

	threshold value declared			
3f	Quantity of sub-grade mineral generation	Nil	Nil	Total ROM is being dispatched to Crusher
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanized method adopted for segregating from ROM	NA	NA	Total ROM is being dispatched to Crusher
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject.	Nil	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	It was proposed to carry out drilling by deep hole drilling & controlled blasting with explosive + ANFO	Same was noticed during the inspection.	No deviation
3k	Provision of mining machineries in mineral benches	It was proposed to use Back hoe and tippers for excavating the mineral and transporting the same.	Same was noticed during the inspection	No deviation.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain a height of 7.5 m (mineral bench).	Same was noticed during the inspection	No deviation
3m	Total area covered under excavation/pits	60.04 Ha	56.76 Ha	Nil
3n	Ore to OB ratio for the pit / mine during the year	1 : 0	1 : 0	Nil
3o	Total area put in use under different heads at the end of year	Under pits = 60.04 Ha Infrastructure = 0.67 Ha Roads = 2.92 Ha Harvesting Pit + Check Dam = 11.59 Ha . Total = 75.22 Ha	Under pits = 56.76 Ha Infrastructure = 0.67 Ha Roads = 2.92 Ha Harvesting Pit + Check Dam = 11.59 Ha . Total = 71.94 Ha	Nil
3p	Production of ROM mineral during last five-year period, as applicable	2019-20 = 45,00,900 MT 2020-21 = 45,01,012 MT 2021-22 = 45,00,187	2019-20 = 20,50,000 MT 2020-21 = 25,83,500 MT 2021-22 = 31,41,500	Nil

		MT 2022-23 = 45,00,037 MT 2023-24 = 45,00,000 MT	MT 2022-23 = 29,86,700 MT 2023-24 = 32,36,000 MT	
3q	General remarks of inspecting officer on method of mining etc.		production is carried out from two pits by opencast mining method as proposed.	production is carried out from two pits by opencast mining method as proposed.

Solid Waste Management – Dumping:

S.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal.	Nil	No top soil, OB waste is being generated
4b	Location of topsoil, OB & mineral reject dumps	No proposal.	Nil	No top soil, OB waste is being generated
4c	Number of dumps within lease area and outside lease area	No proposal.	Nil	No top soil, OB waste is being generated
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	Nil	No top soil, OB waste is being generated
4e	Number of active & alive dumps	No proposal.	Nil	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	No proposal.	Nil	
4i	Length of Retaining wall or garland drain all along dump	No proposal.	Nil	Garland Drains had been constructed in 1) West side of PIT-I in the year 2010-11. (Length = 1100 mtrs) 2) Northern side of PIT-I in the year 2020-21. (Length = 252 mtrs)
4j	Number of settling ponds	No proposal.	Nil	
4k	Specific comments of inspecting officer on waste dump management.		No dumps are there within or outside the mining lease as on date of inspection	Nil

5. Solid Waste Management – Backfilling :

S. No.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	There is no proposal for reclamation during the year 2023-24	No area mature for reclamation purpose during the year 2023-24	No deviation..
5b	Area under backfilling of mined out area	None	None	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	None	None	Mine is completely covered with Limestone outcrops. Generated small quantity of Intrusion Soil had been used for Plantation development.
5d	Total area fully reclaimed & rehabilitated	None	None	None
5e	General remarks of inspecting officer on backfilling, reclamation etc.			No area matured for reclamation purpose during the year 2022-23.

6. Progressive Mine Closure Plan -

S. No.	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.	Yes	Yes	No deviation.
6b	Management of Worked / Mined out benches	No proposal	Nil	Nil
	1) Area available for rehabilitation (ha)	No proposal	Nil	Nil
	2) Afforestation done (ha)	No proposal	Nil	Nil
	3) No. of saplings planted during the year	No proposal	Nil	Nil
	4) Cumulative no. of plants	No proposal	Nil	Nil
	5) Any other specific method of rehabilitation	No proposal	Nil	Nil
6) Cost incurred on watch & care during the year	No proposal	Nil	Nil	Nil

6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D)	No proposal	Nil	Nil
	ii) Void filled by waste/tailings	No proposal	Nil	Nil
	iii) Afforestation on the backfilled area	No proposal	Nil	Nil
	iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil
	v) Any other specific means	No proposal	Nil	Nil
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i)Plants = 375 nos. ii)Area = 0.25 Ha	i)Plants = 400 nos. ii)Area = 0.25 Ha	
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.

7. Mineral Conservation -

S. No.	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	None
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
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8. Environment -

S. No.	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	Nil	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)	Plants = 375 nos Area = 0.25 Ha	Plants = 400 nos. Area = 0.25 Ha.	Nil
8g	Survival rate	50%	50%	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	Aesthetic beauty in and around the mines area is maintained.

9. Compliance of Rule 45 -

S.N.	Item	Proposals	Actual work	
9a	Status of submission of Monthly and Annual returns	Monthly and annual returns are to be submitted as per rule 45 of MCDR, 2017.	submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mr. B. Anil Kumar, Mining Engineer Mr. T. Hemasundara Rao Geologist	found to be in order.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pits = 56.76 ha Reclaimed area = Nil Dumps = Nil	found to be in order.	Nil
9d	Scrutiny of Annual return on afforestation	<u>with in ML</u> No. of plants = 400no's <u>Out-side ML</u> No. of plants = 210 no's	found to be in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and / or graded ore	ROM = 32,36,000 MT	Same was checked and verified during the inspection.	No comments to offer.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value – Rs. 78,58,30,240/- Ex. Mine price – Rs. 242.84 Cost of Production – Rs. 242.84	The same was confirmed during the inspection.	No comments to offer
9i	Scrutiny of Annual return on fixed assets	Rs.89680596	Rs.89680596	No comments to offer
9k	Scrutiny of Annual return on mining machineries	Tipper=22 nos. BackHoe=06 nos. Blast host drill=03 nos. Air compressor=02 nos Dozer= 01no. Water tanker= 02 nos. Explosive van= 01 no.	Same were confirmed during the inspection.	No comments to offer

Details of violations observed during current inspection and compliance position of earlier violation pointed out:

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)