

**Indian Bureau of Mines**  
**Minerals Development and Regulation Division**  
**MCDR Inspection Report**  
**Hyderabad Regional Office.**

**Mine File MCDR-** AP/GNR/LST-50/HYD  
38APR07066

**Mine Code:**

1) Name of Inspecting officer:	Sri. Varaprasada Rao Laveti
2) Designation	Junior Mining Geologist
3) Accompanying mine official with designation	Sri. Prasad, Mines Manager and Sri M. Ajit Babu, Geologist.
4) Date of Inspection	14/12/2024
5) Date of Previous Inspection	07.10.2023

**Part-I: General**

S.No	Particulars	Details
1	Name of the Mine	<b>KCP Limestone Deposit-II Mine</b>
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	20.046Ha
3	Mine code	38APR07066
4	MCDR, 1988	IBM/680/2011
5	Name of the lessee, Address, phone, email and fax number	M/s The KCP Limited, Macherla.
6	Village	Polepalli
7	Taluka/Mandal	Durgi
8	District	Palnadu
9	Pin code	522426
10	State	Andhra Pradesh
11	Post office	Durgi
12	Nearest police station	Durgi
13	Nearest Railway station	Macherla
14	Date of Grant of Mining Lease	16-05-2016
15	Date of Execution	18-06-2016 (expired 17.6.2066)
16	Period	50 years
17	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Dr. V.L. Indira Dutt. Ph.no: 9491296071 Email: mines.macherla@kcp.co.in Address: Ramakrishna Building-2, Dr. P.V Cherian Crescent, Egmore, Chennai

18	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri. V. Venkata Ramana, KCP Colony, The KCP limited, Cement Unit-1, Macherla (V&M), Guntur distt, A.P.-522426 Email:vvramana@kcp.co.in
19	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines, qualification	Sri. Sri. M. Sai Krishna, Macherla, The KCP limited, Cement Unit-1, Macherla (V&M), Guntur distt, A.P.-522426.
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	Sri. M. Sai Krishna, Macherla, Mining engineer Ph :08642-222 303 Sri M. Ajith Babu, M.Sc Geology, Geologist.
21	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	MP/AP/GNR/Lst-76/Hyd. dated.06.02.2015 (2016-17 to 2020-21)
22	Name of the Mineral	Limestone
23	Method of Mining (Opencast,	Open cast
24	Category (Fully Mechanized, Others or Manual)	A Category, Fully Mechanized
25	Captive/Non Captive	Captive

**PART-II**

<b>Exploration :</b>				
<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
1a	Backlog of previous year	Nil	Nil	

1b	Exploration over lease area for geological axis 1 or 2	20.046 Ha	20.046 Ha	Total lease has been explored into G1 Category
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	-do-
1e	Balance reserves as on 01/04/2024	Reserves as on 31/10/2022 as per latest approved mining plan- scheme:  Mineral Reserves (111): 3858921 Tonnes	Reserves as on 01/04/2024:  Mineral Reserves (111): 3205421 Tonnes	CaO 47.46%, Sio2 10.45%, Mgo 0.75%, and Al2o3 2.08%
1f	General remarks of inspecting officers on geology, exploration etc.	The formations are near horizontal with gentle dips of 2° to 5° towards SSE or South. They show series of strike and dip joints which dip at 60o to vertical. The mode of occurrence of Limestone in the subject area is akin to Stratiform, Strata bound and Tabular Deposits of Regular order of United Nations Framework Classification		
<b>Development:</b>				
<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>

2a	Location of development w.r.t. lease area	Proposed pit development: N 1816398 to N1816735 and E33270 6.80 to E332864.86	Actual development: N 1816398 to N1816735 and E33270 6.80 to E332864.86	Development carried out as per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	Yes, Mineral Bench White Chalk and Yellow Chalk	Yes, Mineral Bench White Chalk and Yellow Chalk	Separate benches are being maintained for the mineral
2c	Stripping ratio of ore to OB ratio	1.0:0.01	1.0:0.01	
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	
2e	Quantity of overburden generation in m <sup>3</sup>	4605 Cu.m	4450 Cu.m	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.	Since the work was carried out in an already excavated area, the topsoil generation was nil. The bench parameters were maintained as per the proposal, and the pit was extended in all direction		
<b>Exploitation :</b>				
<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
3a	Number of pits proposed for production	1 pit	1 pit	
3b	Quantity of ROM mineral production proposed	6,00,488 tons	4,48,500 tons	75% Production is achieved in the year 2023-24.
3c	Recovery of saleable / usable mineral from ROM production	99 %	100 %	
3d	Quantity of mineral reject generation	Not proposed	Nil	
3e	Grade of	NA	NA	

	mineral rejects generation and threshold value declared.			
3f	Quantity of subgrade mineral generation.	Not proposed	Nil	
3g	Grade of subgrade mineral generation.	NA	NA	
3h	Manual / Mechanized method adopted for segregating from ROM	NA	NA	
3i	Any analysis or beneficiation study proposed and carried out for subgrade mineral and rejects	Not proposed	Nil	
3j	Provision of drilling and blasting in mineral benches	Yes, Deep hole Blasting	Yes, Deep hole Blasting	Drilling and blasting are being carried out as per the proposal.
3k	Provision of mining machineries in mineral benches	Back Hoe, Tipper-4, Compressor, Drilling Machine.	Back Hoe, Tipper-4, Compressor, Drilling Machine.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Limestone-7.5 mtrs	Limestone-7.0 mtrs (average)	Benches are maintained within proposed heights
3m	Total area covered under excavation / pits	11.68 Ha	11.68 Ha	

3n	Ore to OB ratio for the pit/mine during the year.	1.0:0.01	1.0:0.01	
3o	Total area put in use under different heads at the end of year	14.78 Ha	14.78 Ha	
3p	Production of ROM mineral during the last five-year period as applicable	1.FY:2022-23: 6,00,067 Tonnes  2.FY: 2023-24: 6,00,487Tonnes	1.FY:2022-23: 4,20,500 Tonnes  2.FY: 2023-24: 4,48,500Tonnes	The production quantity for the year 2022-23 is in accordance with the Modified Mining Plan, letter no. AP/GNR/MP/Lst-74/Hyd, dated 13.02.2023
3q	General remarks of inspecting officers on method of mining etc.	The mining method adopted is fully mechanized, utilizing heavy earth-moving machinery. The bench heights are being maintained within the proposed limit.		
<b>Solid Waste Management - Dumping:</b>				
<b>Sl.No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33)	Nil	Nil	No topsoil is generated during the year 2023-24 so no topsoil dump was made.
4b	Location of topsoil, OB and mineral reject dumps	OB/WASTE Dump : E332970-E33081 & N1816 680-N1816771	E332970-E33081 & N1816 680-N1816771	Dump is placed as proposed
4c	Number of dumps within lease area and outside of lease area	Three Dumps within Lease Area	Three Dumps within Lease Area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	
4e	Number of active and alive dumps.	3 dumps	3 dumps	

4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether retaining wall or garland drains all along dumps are there.	Yes, proposed 900m length of retaining wall and garland drains for the Year 2022-23	Garland drain and retaining wall made as proposed	
4i	Length of retaining wall or garland drain all along dumps.	900m	900m	The retaining wall and garland drains were constructed along the toe portion of the dumps
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officers on waste dump management.	A total of 3 OB/waste dumps have been made towards north side of the mining lease, and retaining walls and garland drains have been constructed and are being properly maintained along the toe portion of the dumps		

**Solid Waste Management - Backfilling:**

Sl.No.	Item	Proposals	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	No area is matured for backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	
5e	General remarks of inspecting	Nil		

	officers on backfilling and reclamation etc.			
<b>Progressive Mine Closure Plan:</b>				
<b>Sl. No.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 26(2)	Before 1 <sup>st</sup> July of every year.	Lessee has submitted PMCP report for the year 2023-24 on 25.06.2024	Submitted PMCP report for the year 2023-24 within time limit
6b	Area available for rehabilitation (ha)	Nil	Nil	No area is available for rehabilitation.
6c	Afforestation done (ha)	0.20 Ha. area proposed for Afforestation in the year 2023-24	0.20 Ha., in the year 2023-24	Existing area in the lease under the plantation at the end of financial year is 0.810 Ha.
6d	No. of saplings planted during the year	300 nos. of saplings proposed in the year 2023-24	Plantation carried out as per proposal.	Total 300 nos. of sapling planted with 80% survival rate in the year 2023-24
6e	Cumulative no. of plants	600 nos. of saplings were proposed in the present plan period up to 2023-24	Total plantation made in the present plan period up to 2023-24 is 600 nos.	Total cumulative nos. of plants existing in the lease area at the end of financial year is 2925 nos.
6f	Any other method of rehabilitation	Not proposed	Nil	
6g	Cost incurred on watch and care during the year	Rs.60,000	Rs.60,000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling	Nil	Nil	

	(LxBxD)			
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil	
6o	Compliance of rehabilitation of waste land within lease (ii) Method of rehabilitation	Nil	Nil	
6p	Compliance of environmental	Proposed monitoring of Quality of air by	The lessee has carried out quarterly	The lessee has carried out quarterly

	monitoring (core zone and buffer zone)	periodic monitoring.	environmental monitoring.	environmental monitoring, and all parameters have been found to be within the permissible limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	During the year 2023-24, 300 saplings were planted all along the 7.5-meter safety zone. The total area covered by the plantation so far is approximately 0.810hectares.		
<b>Mineral Conservation:</b>				
Sl.No.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM dispatch in the form of Lumps.	Directly feeding to the crusher at cement plant	
7b	Method of grade wise mineral sorting i.e. manual or mechanical	No proposal	Nil	
7c	Different grade of mineral sorted out at mines	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	

7e	General remarks of inspecting officers on mineral conservation and beneficiation issues.	Nil
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**Environment:**

Sl.No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Nil	
8b	Concurrent use or storage of topsoil	Not proposed	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	1 dump proposed for waste rock/OB	As per the proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Waste proposed for dumping	
8e	Phased restoration, reclamation and rehabilitation of land affected by mining operations (pits, dumps	Not proposed	Nil	

	etc.)			
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1550 nos.  Proposed 300nos. of saplings for the reporting year 2023-24	Cumulative plantation reported in AR is 2925 nos.  300 nos. of saplings were planted reportedly.	As per Annual Returns of RY 2023-24
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkler has been practicing for dust suppression.	12 KL water tanker used for Water sprinkling
8i	General remarks of inspecting officers on aesthetic beauty in and around mine areas.	Benches and haulage roads were maintained systematically. One water tanker is deployed for sprinkling water in the working area and around the haulage roads.		

**Compliance of Rule 45 :**

Sl.No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and annual returns	Monthly returns shall be submitted before the 10th day of every month for the preceding month, and an annual return shall be submitted before the 1st day of July of each year for the preceding financial year	M.R. Submitted up to - November-2024  A.R. submitted for the F.Y:2023-24 on 25.06.2024	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per Annual Returns Shri.S. Prasad, Mining Engineer Shri.M. Ajith Babu, Geologist Shri.M. Sai Krishna, Mines Manager	The details of the Mining Engineer and Geologist submitted in the annual returns were verified and found to be correct	
9c	Scrutiny of Annual return	Pits- 11.68 Ha, Waste – 1.69 Ha,	Pits- 11.68 Ha, Waste – 1.69 Ha,	

	on land use pattern for area under pits, reclaimed area, dumps etc.	Infrastructure-0.4 Ha. Green Belt & Garland Drain & Retaining Wall – 1.010 Ha	Infrastructure-0.4 Ha. Green Belt & Garland Drain & Retaining Wall – 1.010 Ha	
9d	Scrutiny of Annual return on afforestation	300 No's	300 No's	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM, Opening stock: - Ni1, Production: -4,48,500T and closing stock-NIL, Grade wise: Cement grade: - opening and closing stock: Nil Production and dispatch: -4,48,500T	The details furnished in the annual return have been found to be correct	
9g	Scrutiny of Annual return on Sale value, Ex Mine price and production cost	Sale value: Zero, Ex Mine price- Rs - 259.49/T and cost of production Rs:259.49/T.	The details furnished in the annual return have been found to be correct	
9h	Scrutiny of Annual return on fixed assets	Rs.67172328	The details furnished in the Annual returns were found correct.	
9k	Scrutiny of Annual return on mining machineries	Back Hoe – 0.90 m3 Tippers – 4, Air Compressor – 450 m3 /MN, Rock Drill – 115mm Water Tanker -12 K Explosive Van-1	The information given on mining machineries is found correct	

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

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

Date: - 04.04.2025

(Varaprasada Rao Laveti)  
Junior Mining Geologist  
Indian Bureau of Mines