

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/KRM/LST-5/HYD

Mine code : 38APR09002

- (i) Name of the Inspecting : S11) SHAILENDRA KUMAR
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sri subash R Bose Manager (Mines)
Official with
Designation
- (iv) Date of Inspection : 16/03/2022
- (v) Prev.inspection date : 02/09/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THKKALAPALLY**
- (b) **Registration NO.** : **IBM/245/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **TELANGANA**
- District : **KARIMNAGAR**
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : **08728-228160**
- E-mail : **kc.mines@kesoram.net**
- Phone : **08728-228121**
- (f) **Police Station** : **BASANTHNAGAR**
- (g) **First opening date** : **01/02/2004**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **BASANTH NAGAR**
correspondance : **PEDDAPALLI DISTRICT**
505187
3. (a) **Lease Number** : **APR2269**
- (b) **Lease area** : **122.28**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **23/12/2022**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : KESORAM CEMENT
 KESORAM CEMENT P.O.
 BASANTHNAGAR KARIMNAGAR
 DIST. KARIMNAGAR TELANGANA
 Phone:
 FAX :040 4657472

Owner : P Radhakrishnan
 Basant nagar peddapalli
 district Telangana State
 KARIMNAGAR TELANGANA
 Phone:
 FAX :

Agent : Rajesh Garg
 M/s Kesoram Industries
 Limited Basant Nagar
 Peddapalli District,
 Telangana KARIMNAGAR
 TELANGANA
 Phone:
 FAX :

Mining Engineer

Name : N Ravinder Rao, Full Time
 Qualification : B Tech Mining
 Appointment/ : 20/01/2020
 Termination date

Geologist

Name : P Saidulu, Full Time
 Qualification : Msc geology
 Appointment/ : 10/12/2021
 Termination date

Manager

Name : Subash R Bose
 Qualification : B tech Mining
 Appointment/ : 07/06/2019
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	26/07/2002
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	21/04/2009
		Mining Scheme rule 12 MCDR1988	01/04/2015
		MP modif under 17(3) MCR 2016	17/01/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None	None	None
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	The entire potentially mineralised area explored under G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	None
1e	Balance reserve as on 01/04/20	----	1.0 Million tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc	None	None	The entire Potential mineralised area explored under G1 level. The Limestone in the lease has been correlated with Sullavai series of lower vindhyan. There are three limestone bands in the lease i.e. Grey, Purple and Light purple.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	It was proposed to work on the North West side of the lease during the year 2020-21.	During the inspection it was noticed that the working being done as proposed.	None
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to develop one bench in mineral.	One bench developed in the mineral.	None

2c	Stripping ratio or ore to OB ratio	1:0.85	1:2.05	None
2d	Quantity of topsoil generation in m3	Nil	None	None
2e	Quantity of overburden generation in m3	In the year 2020-21 it was proposed to handle 2,72,850 Cu.meters 2021-22 - 2,77,168 Cu.meters	Actual OB handled was 1,12,760 Cu.meters. 2021-22 - 2424 cu.meters	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	None	None	The mine development being done as proposed. The Ore to OB ratio is bit high as the lessee has reported that they have encountered interstitial clay and Murrum.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	None
3b	Quantity of ROM mineral production proposed	2020-21 - 3.21,000 tonnes 2021-22 - 3,26,080 tonnes	2020-21 - 55,000 tonnes 2021-22 (up to February 2022) - 15,000 tonnes	None
3c	Recovery of sailable/usable mineral from ROM production	It was proposed to utilise the entire ROM in the cement plant of lessee	The entire ROM being utilised in the cement plant of the lessee.	None
3d	Quantity of mineral reject generation	None	None	None
3e	Grade of mineral rejects generation and threshold value declared.	None	None	None

3f	Quantity of sub grade mineral generation.	None	None	None
3g	Grade of sub grade mineral generation	None	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	None	None	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	None
3j	Provision of drilling and blasting in mineral benches	proposed to use deep hole drilling and blasting for excavating the mineral	Deep hole drilling by using wagon drill of 115 mm dia and Slurry explosive with ANFO used for blasting	None
3k	Provision of mining machineries in mineral benches	it was proposed to utilise MEMM for excavating and transporting the mineral.	Excavator and dumper utilised for excavating transporting the mineral.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 meters	6 meters	None
3m	Total area covered under excavation/pits	8.421 ha	8.40	None
3n	Ore to OB ratio for the pit/mine during the year.	1:0.85	1:2.05	None
3o	Total area put in use under different heads at the end of year	11.483 ha	11.533 ha	None

3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 0.23 Million tonnes 2018-19 - 0.19 million tonnes 2019-20 - 0.46 million tonnes 2020-21 - 0.32 million tonnes 2021-22 - 0.32 million tonnes	2017-18 - 0.0.7 Million tonnes 2018-19 - 0.04 million tonnes 2019-20 - 0.10 million tonnes 2020-21 - 0.055 million tonnes 2021-22 - 0.015 million tonnes	There is no excess production noticed.
3q	General remarks of inspecting officers on method of mining etc.	None	None	The production of the ROM is within the proposed quantity.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping of OB was proposed.	Seperate dumping was noticed duirng the inspection.	None
4b	Location of topsoil, OB and mineral reject dumps	North Eastern side of the lease.	Dumping noticed as proposed.	None
4c	Number of dumps within lease area and outside of lease area	One	One	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	None
4e	Number of active and alive dumps.	One	One	None
4f	Number of dead dumps.	None	None	None
4g	Number of dumps established.	None	None	None
4h	Whether Retaining wall or garland drain all along dumps are there.	530 meters	400 meters.rest is under construction.	None
4i	Length of Retaining wall or garland drain all along dumps	530 meters	400 meters	None
4j	Number of settling ponds	None	None	None

4k	Specific comments of inspecting officer on waste dump management	None	None	Seperate dumping was proposed and the same was noticed duirng the inspection.
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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.	None	None	None
5b	Area under backfilling of mined out area	None	None	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	None	None
5d	Total area fully reclaimed and rehabilitated	None	None	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	No area matured for reclamation.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	---	The Annual report on PMCP submitted in time	None
6b	Area available for rehabilitation (ha) .	None	None	None
6c	afforestation done (ha).	0.5 ha	0.5 ha	None

6d	No. of saplings planted during the year	385 no.s	385 no.s	None
6e	Cumulative no .of plants	---	4000 no.s	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	---	The lessee reported that he has incurred an expenditure of Rs.3,50,000/- towards watch and ward for the year 2020-21.	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None	None	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	None	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	None	None
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	None	None

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	it was proposed to carry out quarterly monitoring of the environmental parameters in both core and buffer zone.	Regular quarterly monitoring of environmental parameters being carried out in both core and buffer zone.All the parameters under permissible limits.	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None	All the protective measure as proposed are being implemented.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting was proposed	No grade wise sorting noticed in the lwease.	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	None	None
7c	Different grade of mineral sorted out at mines.	None	None	None
7d	Any beneficiation process at mines	None	None	None

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	No grade wise sorting or beneficiation noticed in the mine.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	None	None	None
8b	Concurrent use or storage of topsoil	None	None	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	seperate dump for OB proposed.	Seperate dump for OB developed.	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None	None	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	None	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	it was proposed to plant 403 saplings within the lease.	400 saplings were planted duirng the year 2020-21.	None
8g	Survival rate	90%	75%	None

8h	Water sprinkling on roads to control airborne dust	It was proposed to suppress dust by water sprinkling using water tanker.	The same was noticed during the inspection.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	The proposals for environmental protection and dust suppression taken up as proposed.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	---	Monthly and annual return submitted by the lessee regularly.	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the annual return 2020-21 sri ravinder Rao and sri S Thirupathi are employed as Mining Engineer and geologist.	The same was verified during the inspection.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pit - 9 ha Area under waste dump - 2.220 ha	the same was confirmed during the inspection.	None
9d	Scrutiny of Annual return on afforestation	In the annual return no. of saplings not mentioned. advised lessee to update the return	actually 385 no.s planted during the year 2020-21.	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None	None	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	55,000 tonnes	The same was confirmed during the inspection.	None

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	the ex-mine price reported in the annual return 2020-21 was Rs.363.41 per tonne	the same was confirmed duirng the inspection.	None
9h	Scrutiny of Annual return on fixed assets	No value mentioned in thec annual return.	Advised the lessee to update the return	None
9k	Scrutiny of Annual return on mining machineries	Dozer - 1 no. Hydraulic shovel - 1 no. Dumper - 4 no.s Drill - 1 no.	The same was noticed duirng the inspection.	None

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

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(**SHAIENDRA KUMAR**)

Indian Bureau of Mines