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INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri M Ravindar Reddy, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 19-JAN-23
- (v) Prev.inspection date : 16-MAR-22

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 : *Takkalapalli*
Taluka : *Palakurthi*
Post office : *Basanth Nagar*
Pin Code : **505187**
FAX No. : 08728-228160
E-mail : **kc.mines@kesoram.net**
Phone : 08728-228121
- (f) Police Station : **BASANTHNAGAR**
- (g) First opening date : **01-FEB-04**
- (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 : **50**
- (d) Date of Expiry : **23-DEC-52**
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-JAN-20
 Termination date

Geologist

Name : P Saidulu, Full Time
 Qualification : Msc geology
 Appointment/ : 10-DEC-21
 Termination date

Manager

Name : Subash R Bose
 Qualification : B tech Mining
 Appointment/ : 07-JUN-19
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	26-JUL-02
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	21-APR-09
	:	Mining Scheme rule 12 MCDR1988	01-APR-15
	:	MP modif under 17(3) MCR 2016	17-JAN-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such specific proposal.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No proposal.	Nil	Entire mineralised area has been explored under G1 level. however lessee has not submitted Geological report as per rule 12(4B) of MCDR, 2017, so violation observed and communicated to lessee letter dated 27.01.2023.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Nil	
1e	Balance reserve as on 01/04/20	As per the approved document dated 17.01.2019, the Limestone reserves are 1.72 mil.t	due to depletion/addition over the period of time the updated reserves as on dated 01.04.2022 are limestone: 1.5 milt.t.	
1f	General remarks of inspecting officers on geology, exploration etc		the limestone has been correclated with the sullavai series of lower Vindhyan. They are sandwiched between sandstone in the north-east and granites in the south-west. they are also intensively folded at places and intercepted by minor faults.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	one pit (with two blocks)is proposed to be developed.	one pit (with two blocks) is being developed.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	seperate benches Ob and mineral proposed.no top soil generation is envisaged.	maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.7 t/cum.	1:0.06 t/cu.m.	
2d	Quantity of topsoil generation in m3	No proposal.	Nil	
2e	Quantity of overburden generation in m3	185688 cu.m. during the year 2021-22.	970 cu.m.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		development is carried out by opencast mining method as proposed.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	0.277 mil.t. during the year 2021-22.	15000 t	production is less due to less demand from captive cement plant.
3c	Recovery of sailable/usable mineral from ROM production	277168 t	15000 t	
3d	Quantity of mineral reject generation	No proposal.	Nil	

3e	Grade of mineral rejects 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 / Mechanised method adopted for segregating from ROM	mechanised.	mechanised.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Nil
3j	Provision of drilling and blasting in mineral benches	drilling and blasting is proposed.	drilling & blasting is carried out.
3k	Provision of mining machineries in mineral benches	excavator and dumper combination is proposed for excavation.	excavator and dumper combination is deployed for excavation.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 m	maintained.
3m	Total area covered under excavation/pits	14.823 ha at the end of plan period i.e. 2023-24.	9.412 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.7 t/cum.	1:0.06 t/cu.m.

3o	Total area put in use under different heads at the end of year	28.07 ha at the end of plan period i.e. 2023-24.	14.3613 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 0.23 mil.t. 2018-19: 0.19 mil.t. 2019-20: 0.46 mil.t. 2020-21: 0.32 mil.t. 2021-22: 0.277 mil.t.	2017-18: 70000 t. 2018-19: 40000 t. 2019-20: 100000 t. 2020-21: 55000 t. 2021-22: 15000 t.
3q	General remarks of inspecting officers on method of mining etc.		production is carried by opencast mining method as proposed.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	seperate dumping of OB is proposed. no top soil generation is envisaged.	carried out	
4b	Location of topsoil, OB and mineral reject dumps	Northern side of ML area.	lessee has carried out waste dumping at different location.	violation observed and communicated to lessee letter dated 27.01.2023
4c	Number of dumps within lease area and outside of lease area	one	two	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	outside UPL	
4e	Number of active and alive dumps.	one	two	
4f	Number of dead dumps.	No proposal.	Nil	

4g	Number of dumps established.	No proposal.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	provided.	provided.
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Nil
4j	Number of settling ponds	No proposal.	Nil
4k	Specific comments of inspecting officer on waste dump management		waste dumping was carried out at different location other than proposed in approved mining plan document. violation observed.

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.	No proposal.	Nil	Area not amtured for reclamation.
5b	Area under backfilling of mined out area	No proposal.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal.	Nil	

5e General remarks of inspecting officers on backfilling and reclamation etc. Area not 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).	PMCP report to submitted submitted before 1 st July.		
6b	Area available for rehabilitation (ha) .	No proposal.	Nil	
6c	afforestation done (ha).	0.19 ha during the year 2021-22.	0.19 ha	
6d	No. of saplings planted during the year	381 nos	400 nos	
6f	Any other method of rehabilitation	No proposal.	Nil	
6g	Cost incurred on watch and care during the year		Not assessed.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Nil	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB.	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB is carried out.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	PMCP measures were carried out as proposed.
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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	proposed.	carried out	entire ROM (Limestone) of cement grade is used in the captive plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	
7c	Different grade of mineral sorted out at mines.	cement grade limestone	cement grade limestone	
7d	Any beneficiation process at mines	No proposal.	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		entire ROM (limestone) of cement grade is used at captive plant.	

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Nil	

8b	Concurrent use or storage of topsoil	No proposal.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed.	carried out.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	381 nos	400 nos
8g	Survival rate		75%
8h	Water sprinkling on roads to control airborne dust	water sprinkling on haul roads for dust suppression is proposed.	carried out.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		aesthetic beauty in and around the mines area is maintained.

Compliance of Rule 45:

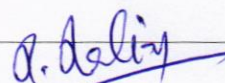
Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and annual returns are to be submitted as per rule 45 of MCDR, 2017	submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	(i) Graduate Mining Engineer 1, (ii) Diploma Mining Engineer 1, (iii) Geologist 1	found to be in order.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Covered under current (O/C) Workings 9.412 ha, (ii) Used for waste disposal 2.220 ha, (iii) Occupied by plant, buildings, residential, welfare buildings & roads 1.900 ha etc.,	found to be in order.	
9d	Scrutiny of Annual return on afforestation	400 nos	found to be in order.	
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 closing stock is Nil	found to be in order.	
9g	Scrutiny of Annual return on sale value, Ex-Mine price and production cost	Ex-Mine price is Rs. 416.71/t	Ex-Mine price is Rs. 416.71/t	

9h	Scrutiny of Annual return on fixed assets	Nil	Nil	furnished as combined information in another mine's return of same lessee.
9k	Scrutiny of Annual return on mining machineries	DOZER 320.000 HP 1, SHOVEL (HYDRAULIC) 2.700 CUM 1, DUMPER 35.000 TONNE 4 etc.,	found to be in order.	

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	27-JAN-23			
MCDR17	Rule 12(4)	27-JAN-23			

Date : 2/2/23


(RAMKISHAN R)

Indian Bureau of Mines