

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KRM/LST-1/HYD

Mine code : 38APR09001

- (i) Name of the Inspecting : S11) SHAILENDRA KUMAR
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sri Subashish R Bose General Manager(Mines)
Official with
Designation
- (iv) Date of Inspection : 15/03/2022
- (v) Prev.inspection date : 01/09/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : BASANTNAGAR
- (b) **Registration NO.** : IBM/245/2011
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TELANGANA
- District : KARIMNAGAR
- Village : BASANTNAGAR
- Taluka : RAMAGUNDAM
- Post office : BASANTNAGAR
- Pin Code : 505187
- FAX No. : 08728-228160
- E-mail : kc.mines@kesoram.net
- Phone : 08728-228135
- (f) **Police Station** : Basantnagar
- (g) **First opening date** : 01/01/1965
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : BASANTHNAGAR
RAMAGUNDAM TALUKA
KARIMNAGAR DISTRICT
3. (a) **Lease Number** : APR0033
- (b) **Lease area** : 360.25
- (c) **Period of lease** :
- (d) **Date of Expiry** : 22/12/2052
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 :

Geologist

Name : B.SADASIVA RAO, Full Time
 Qualification : M.Sc
 Appointment/ : 04/07/2008
 Termination date

Manager

Name : M.Ravindar Reddy, DGM (MInes)
 Qualification : B.E.Mining
 Appointment/ : 31/08/2014
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	27/06/2000
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	01/02/2005
		Renewal under rule 24 MCR1960	09/10/2006
		Mining Scheme rule 12 MCDR1988	23/08/2012
		MP modif under 17(3) MCR 2016	08/03/2017
		MP modif under 17(3) MCR 2016	16/06/2021

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	None	None	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	None
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	-----	Reserves are 10 Million tonnes as on 1.4.2021	None
1f	General remarks of inspecting officers on geology, exploration etc	None	None	The entire potentially mineralised area explored under G1 level.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to develop the mine between section lines U-U' in H block and M-M' in G block & G-G' in I block during the year 2020-21.	The development of the mine being done as proposed.	None
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to have separate benches in overburden and Mineral	Separate benches were noticed in both overburden and mineral.	Nine benches in overburden and 2 benches in mineral were observed during the inspection and development is as proposed.
2c	Stripping ratio or ore to OB ratio	1:1.19	1:1.57	None

2d	Quantity of topsoil generation in m3	None	None	None
2e	Quantity of overburden generation in m3	3654290 Cu.meters duiing the year 2020-21 and 6895894 Cu.meters duiing 2021-22.	Actual Overburden generated duiing 2020-21 was 1416099 Cu.meters and 2531828 Cu.meters duiing 2021-22 up to February 2022.	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	None	None	Development is being carried out as proposed.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Five pits	Five pits	None
3b	Quantity of ROM mineral production proposed	1.65 Million tonnes	0.90 Million tonnes	None
3c	Recovery of sailable/usable mineral from ROM production	It was proposed to utilise the entire ROM in the cement plant of the lessee.	The entire ROM being consumed 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
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	It was proposed to carry out drilling and blasting by using drill of 115 mm dia and slurry explosive with ANFO.	The same was noticed during the inspection.	None
3k	Provision of mining machineries in mineral benches	It was proposed to utilise HEMM for excavating and transporting the ROM from mineral benches	HEMM like excavator and dumper were used for transporting and excavating mineral.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 meters	10 meters	None
3m	Total area covered under excavation/pits	119.40 ha	119.89 ha	None
3n	Ore to OB ratio for the pit/mine during the year.	1:1.19	1:1.57	None
3o	Total area put in use under different heads at the end of year	238.96 ha	229.80 ha	None
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 1.6 Million tonnes 2018-19 - 1.6 Million tonnes 2019-20 - 1.6 Million tonnes 2020-21 - 1.6 Million tonnes 2021-22 - 1.6 Million tonnes	2017-18 - 0.85 Million tonnes 2018-19 - 0.94 Million tonnes 2019-20 - 0.74 Million tonnes 2020-21 - 0.90 Million tonnes 2021-22 - 1.20 Million tonnes	There is no excess production done during the last five years.

3q	General remarks of inspecting officers on method of mining etc.	None	None	The production being done form the location as proposed and the reported qunatity of production was as per proposals made in the approved document.
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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 for Overburden was proposed	Seperate dumping for overburden was noticed.	None
4b	Location of topsoil, OB and mineral reject dumps	The proposed dumps were proposed to be developed on North west and North east and South west sides of the lease.	the dumsp were developed in the proposed locations.	None
4c	Number of dumps within lease area and outside of lease area	Five	Five	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL.	None
4e	Number of active and alive dumps.	All five are active	All five are active	None
4f	Number of dead dumps.	None	None	None
4g	Number of dumps established.	Two	Two	None
4h	Whether Retaining wall or garland drain all along dumps are there.	yes retaining wall and garland drain proposed all along the dumps.	yes retaining wall and garland drain constructed all along the dumps.	None
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall - 300x1x1 meters Garland drain - 150z1x1 meters.	Retaining wall - 300x1x1 meters Garland drain - 150z1x1 meters.	Retaining wall and garland drain constructed as proposed.

4j	Number of settling ponds	None	None	None
4k	Specific comments of inspecting officer on waste dump management	None	None	The waste dump proposals implemented by the lessee.

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 for any reclamation during the years 2020-21 and 2021-22	No reclamation was done during the years 2020-21 & 2021-22.	None
5b	Area under backfilling of mined out area	None during the year	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	there is no proposal for any reclamation and rehabilitation during the years 2020-21 & 2021-22	No area was fully reclaimed or rehabilitated during the year 2020-21 & 2021-22	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	Till date about 16.93 ha was reclaimed and rehabilitated.

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 measures submitted by lessee in time.	None

6b	Area available for rehabilitation (ha) .	None	None	None
6c	afforestation done (ha).	1 ha	1 ha	the same was not reflected in the Annual return, it was advised to lessee to correct the same.
6d	No. of saplings planted during the year	1500	3500	None
6e	Cumulative no .of plants	---	1,00,000 no.s	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	---	4,00,000/-	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 in both core and buffer zones	regular monitoring in core and buffer zones carriedout for all environmental parameters and they found to be within the permissible limits.	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None	All the proposals made in the PMCP were implemented.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	None	None	No grade wise sorting proposed or practised in the lease.
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 proposed or practised in the lease.

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 dumps proposed for overburden	Seperate dumps developed for the overburden	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)	The lease area falls under reserve forest area. It has dense vegetation coupled with plantation made by lessee.	Same was noticed during the inspection.	None
8g	Survival rate	80%	75%	None
8h	Water sprinkling on roads to control airborne dust	it was proposed to suppress the dust by water sprinkling	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 aesthetic beauty is good in the mining lease.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	----	The Annual and Monthly returns submitted by the lessee regularly to this office.	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri M.Ravinder Reddy and Sri Sadasiva Rao employed as Mining Engineer and geologist.	The same was confirmed during the inspection.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits - 117.040 ha Area under dumps - 102.630 ha Infrastructure - 2.310 ha	The same was confirmed during the inspection.	None
9d	Scrutiny of Annual return on afforestation	No data given in the annual report.	However, lessee has planted 3500 saplings during the year 2020-21.	The lessee was advised to update the annual return.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	None	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	0.90 Million 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 was Rs. 363.41/- per tonne	the same was confirmed during the inspection.	None
9h	Scrutiny of Annual return on fixed assets	The value reported was rs158 crores.	The same was not verified.	None
9k	Scrutiny of Annual return on mining machineries	The details of the mining machineries reported in the annual return are as follows: 1. Hydraulic shovels - 7 no.s 2. Blast drills - 5 no.s 3. Pumps - 5 no.s 4. Dumpers - 5 no.s 5. Explosive van - 2 no.s 6. Jeep - 11 no.s 7. Water tanker - 1 no. 8. Air compressor - 1 no.	The same was noticed during 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