

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

**Mining Plan Modification REPORT**

**Hyderabad regional office**

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

**Mine code :** 38APR09001

- (i) Name of the Inspecting : 25 ) SHRI IBRAHIM SARIF  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sri Subashish Bose, Mines Manager, Sri V T Chander, Q  
Official with  
Designation
- (iv) Date of Inspection : 04-FEB-21
- (v) Prev.inspection date : 25-JAN-17

**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 : kesocoid@cal3.vsnl.net.in
- Phone : 08728-228135
- (f) **Police Station** :
- (g) **First opening date** : 01-JAN-65
- (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-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 : Tridib Kumar Das, Whole time Director  
 Kesoram Industries Ltd. 5A  
 & B, Amaravati, 63, Purna  
 Das Road Kolkata-700029  
 KOLKATA WEST BENGAL  
 Phone:  
 FAX :

Agent : Ch.S.Nageswara Rao, Plant Head  
 Kesoram Cement,  
 Basantnagar (PO)  
 Ramagundam (M) Telangana  
 KARIMNAGAR TELANGANA  
 Phone: 08728-228135  
 FAX : 08728-228160

Geologist  
 Name : B.SADASIVA RAO, Full Time  
 Qualification : M.Sc  
 Appointment/ : 04-JUL-08  
 Termination date

Manager  
 Name : M.Ravindar Reddy, DGM (MInes)  
 Qualification : B.E.Mining  
 Appointment/ : 31-AUG-14  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	27-JUN-00
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	01-FEB-05
	:	Renewal under rule 24 MCR1960	09-OCT-06
	:	Mining Scheme rule 12 MCDR1988	23-AUG-12
	:	MP modif under 17(3) MCR 2016	08-MAR-17

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	40.81Hec	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal for 2019-20	NIL expenditure in 2019-20.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	111- 13.38 211 - 8.71	111- 10.62 211 - 8.71	2019-20- 745870 MT
1f	General remarks of inspecting officers on geology, exploration etc		Entire lease area has been explored in G1 scale.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between section lines U-U' & V- V' in H Block, M-M' in G Block, G-G' in E Block & I Block , M-M' in F Block.	Broadly in the same area.	Due to less demand from Plant. There are 2 pits on first vein. One pit in vein 2 i.e, F block, One pit in B block is rehabilitated.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil - Nil OB - 9 Ore - 2 Benches	Separate benches are there in Overburden and mineral. 9 OB benches and 2 mineral benches are there in pit-1 extending in G and H block. In pit 2, there are 7 benches , 5 OB benches and 2 mineral benches. In pit -3 only two benches are there .	

2c	Stripping ratio or ore to OB ratio	2019-20 OB- 1960173 Ore - 1650087 1:1.19	2019-20 OB- 1885268 Ore - 745870 1:2.53
2d	Quantity of topsoil generation in m3	Nil	Nil
2e	Quantity of overburden generation in m3	784069 m3	754107 m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Production was proposed in 5 pits	Production was undertaken from 5 pits.	EGH block is in lower grey band and is having two pits.(about 30m- 40m width) F block is having middle purple silicious limestone with Jasper.(about 20m) I block is Upper purple limestone with Barium sulphate.
3b	Quantity of ROM mineral production proposed	16,50,087 (2019-20)	7,45,870 (2019-20)	Due to less demand from Plant.
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	Entire IB/SB/OB are all categorized and dumped as siliceous limestone waste. No shale is reported to have been generated.
3d	Quantity of mineral reject generation	Nil	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	NA	NA
3f	Quantity of sub grade mineral generation.	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	No segregation of ROM is proposed	Not done
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	ANFO slurry with NONEL	Deep hole drilling and Blasting is carried out in Mineral Benches. 150mm dia drill holes being used to blast 9-10m high benches. Blasting is being carried out using ANFO slurry with NONEL.
3k	Provision of mining machineries in mineral benches	proposed	Provided( Excavtors , Dumpers, drill machine, water tanker,) for undertaking production.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed Bench height is 10 m which is suitable for the excavation proposed by the machinery.	Bench height is around 10 m and the excavators used are suitable for it.
3m	Total area covered under excavation/pits	119.0 Ha	123.46 Ha
3n	Ore to OB ratio for the pit/mine during the year.	Block No. OB Ratio E 0.12 G 0.79 H 3.85 F 0.20 I 3.49	Block No. OB Ratio E 0.52 G 4.31 H - F 2.10 I 0.07

3o	Total area put in use under different heads at the end of year	298.66 Ha till 2020-21	257.78 Ha
3p	Production of ROM mineral during the last five year period as applicable	Year Proposed (mt) 2014-15 1,739,481 2015-16 1,775,445 2016-17 9,73,215 2017-18 1655765 2018-19 1652634 2019-20	Year Actual (mt) 2014-15 770,000 2015-16 815,000 2016-17 820,000 2017-18 850000 2018-19 940000 2019-20 745870
3q	General remarks of inspecting officers on method of mining etc.	Fully mechanised method of mining with deep hole drilling & Blasting is being practised by maintaining bench height of 8 to 10 meters and width of 20 meters.	

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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)	Separate dumping sites for Topsoil & OB were earmarked within lease area.	Being done accordingly	
4b	Location of topsoil, OB and mineral reject dumps	North west, North east & South West sides of the lease area.	Broadly as per proposal	
4c	Number of dumps within lease area and outside of lease area	5 dumps proposed (2 dumps in H block, i.e, H1 and H2, Two blocks in G block i.e, G1 and G2, One dump in E block.	5 main dumps are there extending along eastern and western boundaries. It has been understood that these dumps are categorised for its proposed use as an aggregate, The proposal there of is being processed by them.	Apart from above , the old dump near block B has also been stabilised

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL, Dumping is being done on the approved site.	
4e	Number of active and alive dumps.	All 5 main dumps are active.	All 5 main dumps are active. However , out of these 5 dumps two dumps are partly stabilized.	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	-	Out of the 5 active dumps, two dumps are partly stabilized.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes retaining wall to be constructed along the dump	Retaining toe bund and garland drain is there along side G2 dump	Toe of G2 Dump Yard
4i	Length of Retaining wall or garland drain all along dumps	100m x 1m x 1m	Retaining toe bund and garland drain is there along side G2 dump.	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management		Two dumps out of 5 dumps are partially developed. Retaining wall along bottom periphery of waste dump is established.	

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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.	Nil	Nil	However in the past , lessee has undertaken the reclamation and rehabilitation measures in old dump and pit in Block B. Partial reclamation has been done in two dumps by the name of Basant udyan and Udyan,

5b	Area under backfilling of mined out area	Nil	Nil	Reclamation and rehabilitation was done long back in Block B (Old pit has been converted into water reservoir and plantation done on the surroundings.)
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	No top soil generation or it s concurrent use reported in 2019-20 for reclamation and rehabilitation of mined out area.	
5d	Total area fully reclaimed and rehabilitated	Nil	No reclamation and rehabilitation work done in 2019-20.	Reclamation and rehabilitation was done long back in Block B (Old pit has been converted into water reservoir and plantation done on the surroundings.)
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Reclamation and rehabilitation was done long back in Block B (Old pit has been converted into water reservoir and plantation done on the surroundings.)	

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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual return on PMCP to be submitted regularly	Yes being submitted regularly.	
6b	Area available for rehabilitation (ha) .	No proposal was there in 2018-19 for rehabilitation of benches	Not done.	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	1890	1400 within lease and 2000 sappling outside lease area.	



6f	Any other method of rehabilitation	No proposal	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal for rehabilitation by backfilling in the year 2019-20	Not done
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal for rehabilitation by backfilling	Not done
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 for rehabilitation by backfilling or rehabilitation by making water reservoir	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1800 saplings proposed over about 1.34 hectare	1400 sapplings planted during the year within lease area
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)		About 60.55 hectare is reportedly under plantation at present.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring is to be carried out regularly	complied

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Plantation is being done to improve aesthetic beauty, so far about 60 ha area is covered under plantation
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting; Only simultaneous blending proposed.	No grade wise sorting is done	No Grade wise sorting. Total ROM is being sent to Crusher.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Not Applicable	
7c	Different grade of mineral sorted out at mines.	Nil	Not Applicable	
7d	Any beneficiation process at mines	No proposal of beneficiation	No beneficiation done at present	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Entire mineral is being used in the Cement plant.	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Very little top soil which shall be used for plantation purpose.	Nil	
8b	Concurrent use or storage of topsoil	Nil	NA	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps of OB Dumps are proposed	Yes separate OB Dumps are maintained
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)	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed Plantation for the Year 2019-20- 2175 with an area of 1.45 Ha	1400 saplings were Planted with an area of 0.90 Ha. 2000 sapplings planted out side lease area
8g	Survival rate	80%	About the same survival reported.
8h	Water sprinkling on roads to control airborne dust	Water tanker of 12 KL capacity is to be provided	Water tanker with 12 KL capacity deployed for water sprinkling.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Plantation has been carried out to improve aesthetic beauty in and around the mine .

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. & A.R are to be submitted regularly.	M.R. & A.R are being Ssbmitted up to date.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	" Manager - S R.Bose " Mining Engineer - M.Ravinder Reddy, " Geologist - B.Sadasiva Rao	Same as submission.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Submissions are made in the returns	Area under pit and dump are broadly as per submission.
9d	Scrutiny of Annual return on afforestation	2175 (Within ML area)	1400 (Within ML Area) 2000 (Outsaide ML area)
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	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs. 398.57 COP, EMP	Same as submitted in report
9k	Scrutiny of Annual return on mining machineries	Drilling Machine: (100 mm dia & 150 mm dia), Hydraulic shovel: 3.7 cum, 2.7 cum, 0.9 cum, Dozer : 35 Tonne, Front end loader : 5.75 cum	Broadly the machines reported are deployed in the lease

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**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

**Date :**

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines