

**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 : **M017**) **MANISH K MAINDIRATTA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri Bose, Shri Ravinder |Reddy and Shri Sadashiv
Official with
Designation
- (iv) Date of Inspection : 12/02/2020
- (v) Prev.inspection date : 16/08/2018

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 : **01/01/1965**
- (h) Weekly day of rest : **SUN**
2. Address for : **BASANTHNAGAR**
correspondance : **RAMAGUNDAM TALUKA**
: **KARIMNAGAR DISTRICT**
3. (a) Lease Number : **APR0033**
- (b) Lease area : **360.25**
- (c) Period of lease : **46**
- (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 : 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/ : 04/07/2008
 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

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	2018-19= nIL	2018-19= nIL	The bore holes proposed in the year 2019-20- i.e, 4 CBH are not drilled so far.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal for 2018-19	NIL expenditure in 2018-19.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	Reserves as on 30.11.2016 (mT= million tonnes) 111- 13.38mT 211- 8.71mT	Depletion 1.12.2016 to 31.03.2017=0.22mT 2017-18 0.85mT= 2018-19=0.94mT Balance reserves as on = 111=11.37mT 211=8.71mT	2017-18= 850000T 2018-19= 940000T
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between section lines Y-Y' & V- V' in H Block,P-P' & M-M' in G Block, E-E',F-F' & G-G' in E Block, O-O' to QQ' in F Block GG' in I Blocks.	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	2018-19= 1652634 T 3617387 T= 1:2.18	Stripping ratio of ore to OB is 1:2.4	2018-19 2289995 T siliceous Limestone (30.34% Cao, 37.54% SiO2) handled. OB record of departmental handling is maintained separately.
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	2018-19- 3617387 T	2018-19 =(2289995 T)9,21,734 m3	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Production was proposed in 4 pits	Production was undertaken from 4 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 mineral production proposed	2018-19=16,52,634 T(2018-19)	2018-19-9,40,000T (2018-19)	Due to less demand from Plant.

3c	Recovery of sailable/usable mineral from ROM production	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	Siliceous limestone generated is having CaO less than 35%
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	ANFO slurry with NONEL	150mm dia drill holes being used to blast 9-10m high benches. ANFO slurry with NONEL. excavation	
3j	Provision of drilling and blasting in mineral benches	ANFO slurry with NONEL	150mm dia drill holes being used to blast 9-10m high benches. ANFO slurry with NONEL is used for blasting.	
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 9-10 m which is suitable for the excavation proposed by the machinery.	Bench height is around 9-10m in the workings observed.	

3m	Total area covered under excavation/pits	119 Ha till 2020-21	116.15 Ha till 2018-19	
3n	Ore to OB ratio for the pit/mine during the year.	2018-19=1:2.18	2018-19=1:2.44	2018-19- 2289995 T siliceous Limestone (30.34% Cao, 37.54% SiO2) handled. OB record of departmental handling is maintained separately.
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 (in Tonnes) 2014-15 17,39,481T 2015-16 17,75,445T 2016-17 2,82,875 T (1.12.2016 to 31.3.2017) 2017-18 16,55,765T 2018-19- 16,52,634T Total 71,06,200T	Year Actual (Tonnes) 2014-15 7,70,000T 2015-16 8,15,000T 2016-17 8,20,000T 2017-18 8,50,000T 2018-19 9,40,000T TOTAL 41,95,000T	
3q	General remarks of inspecting officers on method of mining etc.			

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 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)		Dumping is being done on the approved site.	Dump rehandling might be required depending on the extension of the pits in both vein 1 and vein 2 in future
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.	2018-19- 420m X 1m X 1m proposed	Retaining toe bund and garland drain is there along side G2 dump	
4i	Length of Retaining wall or garland drain all along dumps	2018-19-420 X 1 X 1	Retaining toe bund and garland drain is there along side G2 dump.	
4j	Number of settling ponds	Nil	Nil	

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	2018-19=Nil	2018-19=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	2018-19= Nil proposal	2018-19=Nil	Reclamation and rehabilitation was done lonhg 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 2018-19 for reclamation and rehabilitation of mined out area.	
5d	Total area fully reclaimed and rehabilitated		No reclamation and rehabilitation work done in 2018-19. 39.930 ha.	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.)	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).		Submitted	
6b	Area available for rehabilitation (ha) .	No proposal was there in 2018-19 for rehabilitation of benches	Not done.	
6c	afforestation done (ha).	No proposal was there in 2018-19 for rehabilitation of benches	Not done	Already B block pit is converted in water reservoir and the partial backfilling and rehabilitation is done in E block long back (about 18 years)
6d	No. of saplings planted during the year	No proposal was there in 2018-19 for rehabilitation of benches	Not done	
6e	Cumulative no .of plants	No proposal was there in 2018-19 for rehabilitation of benches	Not done	
6f	Any other method of rehabilitation	No proposal was there in 2018-19 for rehabilitation of benches	Not done	
6g	Cost incurred on watch and care during the year	-	-	
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 2018-19	Not done	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-	-	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	-	-	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal for rehabilitation by backfilling with water is there in the year 2018-19	Not done	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	-	-	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	2010 saplings plantation proposed over about 1.34 hectare	3000 saplings planted over about 1.62 hectare in the south eastern part of lease with drip irrigation facility	
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)	Proposed	Complied	Quarterly reports are being submitted to IBM.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting; Only simultaneous blending proposed.	No grade wise sorting is done
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	Nil	Not Applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Not Applicable

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	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB/ IB Dumps	OB/ IB Dumps	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	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)	2010 saplings About 1.34 hectare	3000 saplings About 1.62 hectare	About 60.55 hectare is reportedly under plantation at present.
8g	Survival rate	-	75%	
8h	Water sprinkling on roads to control airborne dust	Dedicated water tanker of 12 KL capacity shall 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			The area in and around the mine is with aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Online M.R Submitted up to January 2020. AR submitted upto 2018-19	Online M.R Submitted up to January 2020. AR submitted upto 2018-19	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer - Sh M.Ravinder Reddy, Geologist - Sh 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	3,000 (WML) 8500 (OML)	Broadly as per submission
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	9,40,000MT	-do-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine price reported as 328.27	Ex Mine price reported as 328.71 with cost of production as Rs 178.81 PMT
9h	Scrutiny of Annual return on fixed assets		
9k	Scrutiny of Annual return on mining machineries		

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 :

(MANISH K MAINDIRATTA)

Indian Bureau of Mines