

**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 : C\$10) Ch.Suseela
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri.M. Ravindar reddy, DGM(Mines) & Sri. B.Sadasiva R
Official with
Designation
- (iv) Date of Inspection : 31/10/2017
- (v) Prev.inspection date : 08/03/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THKKALAPALLY**
- (b) **Registration NO.** :
- (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 : communication@kesoramcement
- 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 KARIMNAGAR
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 : M/S KESORAM CEMENT
 9/1 RN MUKHERJI ROAD
 KALKATTA KOLKATA WEST
 BENGAL
 Phone:
 FAX :

Agent : Ch. S. Nageswara Rao
 Kesoram Cement Basantnagar
 KARIMNAGAR TELANGANA
 Phone: 08728228135
 FAX : 08728228160

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4 Core Bore Holes	NIL	
1b	Exploration over lease area for geological axis 1 or 2	Two core bore holes with a depth of 60 m	13 core bore holes with a depth of 426.50 m	Against 12 CBH proposed during the scheme period, 13 CBH has been achieved during the year 2016-17
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	BS Envitech, Hyderabad Rs.12 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Total mineralised area has been explored under G1 scale
1e	Balance reserve as on 01/04/20	0.33 million tonnes	0.74 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	Total mineralised area has been explored under G1 scale.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North west side	North west side	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Ore bench-1	Ore bench-1	No top soil and no OB. Mining operations are being carried out in first bench only. There is negligible top soil.
2c	Stripping ratio or ore to OB ratio	1:0.74	1:0.20	Mining operations are being carried out in first bench only. There is negligible top soil.
2d	Quantity of topsoil generation in m3	NIL	NIL	

2e	Quantity of overburden generation in m3	41,420 m3	4080 m3	Since the actual production is less than the proposed, the development work was also less.
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	One	One	
3b	Quantity of ROM mineral production proposed	1,40,545 tonnes	50,000 tonnes	Due to less demand from the plant
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	NIL	NIL	NO seggregation. Total ROM is being fed to the crusher.
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	Yes	Provided	
3k	Provision of mining machineries in mineral benches	Excavator, Dumpers etc.	Excavator, Dumpers etc.	Machinery statement attached. Same Machinery used for both the mines of lessee.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 10 m	Yes, 10 m	
3m	Total area covered under excavation/pits	9.21 ha	7.32 ha	Less area is due to less production.
3n	Ore to OB ratio for the pit/mine during the year.	0.74	0.20	
3o	Total area put in use under different heads at the end of year	19.49 ha	13.19 ha	
3p	Production of ROM mineral during the last five year period as applicable	2012-13-- 3,49,860 t, 2013-14-- 3,46,770 t, 2014-15-- 2,99,938 t, 2015-16-- 1,26,968 t, 2016-17-- 1,40,545 t	2012-13--90,000 t, 2013-14--60,000 t, 2014-15--80,000 t, 2015-16--30,000 t, 2016-17--50,000 t	Less production is due to less demand from the plant
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	As on date of inspection, the pit was water logged and no mining operations are being carried out .

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, separate dumping sites were earmarked within ML area	Yes, Maintained at designated place	

4b	Location of topsoil, OB and mineral reject dumps	OB dump in North East side of the lease area	OB dump in North East side of the lease area	
4c	Number of dumps within lease area and outside of lease area	One dump within ML	One dump within ML	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	
4e	Number of active and alive dumps.	One active dump	One active dump	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall was proposed to construct all along the dump	Retaining wall is being constructed in phased manner.	
4i	Length of Retaining wall or garland drain all along dumps	530 m	200 m	Retaining wall is being constructed in phased manner.
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	_____

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	
5b	Area under backfilling of mined out area	NIL	NIL	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	_____	_____	Pit not matured for backfilling and 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).	Annual Report on PMCP to be submitted	Annual Report on PMCP has been submitted	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NIL	NIL	
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year	NIL	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	2325 within ML	5000 within ML
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly Environmental monitoring is proposed	Quarterly Environmental monitoring is being carried out and reports are being submitted to IBM

6q General remarks _____
of inspecting _____
officers on PMCP _____
compliance and _____
progressive _____
closure _____
operations etc.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NIL	No grade wise sorting. Total ROM is being utilised.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Applicable	Not Applicable	
7c	Different grade of mineral sorted out at mines.	Not Applicable	Not Applicable	
7d	Any beneficiation process at mines	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	No beneficiation is required since total ROM is being utilised.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB dump	OB dump	
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)	2325	5000	
8g	Survival rate	_____	75%	
8h	Water sprinkling on roads to control airborne dust	YES, Water tanker of 12 KL capacity	Water tanker of 12 KL capacity is 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	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Online Monthly and Annual Returns are submitted up to date	Online Monthly and Annual Returns are submitted up to date	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager- Sri.M.Ravindar Reddy, Mining Engineer- Sri.M.Ravindar Reddy, Geologist- Sri.B.Sada Siva Rao	Mines Manager- Sri.M.Ravindar Reddy, Mining Engineer- Sri.N.Ravindar Rao, Geologist- Sri.B.Sada Siva Rao	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area coverd under pit-7.32 ha, Area under dump-0.60 ha	Area coverd under pit-7.32 ha, Area under dump-0.60 ha	
9d	Scrutiny of Annual return on afforestation	5000	About 5000	
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	Cost of Production- Rs.584.17/-	Cost of Production- Rs.584.17/-	There is no sale value and Ex. Mine price since it is captive mine
9h	Scrutiny of Annual return on fixed assets	Rs.7,40,53,553 /-	Rs.7,40,53,553/-	
9k	Scrutiny of Annual return on mining machineries	Statement attached	Statement attached	

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 55(1)(3)	13/11/2017				

Date :

(Ch.Suseela)

Indian Bureau of Mines