

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : APR/KSN/LST-18/HYD

Mine code : 38APR10008

- (i) Name of the Inspecting : **M015**) **MANISH K. MAINDIRATTA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 28/02/2018
- (v) Prev.inspection date : 23/02/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SANGAM**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : **ANDHRA PRADESH**
District : **KRISHNA**
Village : **VEDADRI**
Taluka : **JAGGAIYAPET**
Post office : **VEDADRI**
Pin Code : **521438**
FAX No. :
E-mail :
Phone :
- (f) Police Station : **CHILLAKALLU**
- (g) First opening date : **08/02/1988**
- (h) Weekly day of rest : **SUN**
2. Address for : **M/SHEMADRI CEMENTS LTD**
correspondance : **VEDADRI, JAGGAYYAPET**
KRISHNA DIST
3. (a) Lease Number : **APR0203**
- (b) Lease area : **26.71**
- (c) Period of lease : **20**
- (d) Date of Expiry : **10/05/2025**
4. Mineral worked : **LIMESTONE** Main

5. Name and Address of the

Lessee : M/S HEMADRI CEMENTS LIMITED
KRISHNA ANDHRA PRADESH
Phone:22373 22317
FAX :08654 22373

Owner : M/SHEMADRI CEMENTS LTD
M/S HEMDRI CEMENTS LTD
VEDADRI JAGGAYYAPET KRISH
KRISHNA ANDHRA PRADESH
Phone: 22373/22317
FAX : 0865422373

Mining Engineer
Name : SHRI D.Venkata Akhil Kalyan,Full Time
Qualification : B.Tech in Mining Engineering
Appointment/ :
Termination date

Manager
Name : GSVRN KOTESWARA RAO
Qualification : SECOND CLASS CERTIFICATE HOLDER
Appointment/ : 28/04/2006
Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 03/11/2014
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	8 core boreholes were proposed during the period 2014 to 2016	8 core boreholes were pending but they have not been undertaken so far.	violation in this regard pending.
1b	Exploration over lease area for geological axis 1 or 2	entire lease area was supposed to be brought under G1 category	the exploration work has not been undertaken at G2 level of exploration but the exploration for G1 level of exploration is pending as proposed in approved document.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Not Applicable as work has not been undertaken	
1d	Balance area to be explored to bring Geological axis in 1 or 2	---	About 3 hectare area is yet to be explored near pillar 10 for G1/G2 level of exploration	
1e	Balance reserve as on 01/04/20	Reserve as on 10/9/2013 is 5.41 million tonnes	Balance reserve as on 1st feb 2018 is 5.24 million tonnes	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N0950 - N10200 E4840-E4940	work undertaken at the same place	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)		Mineral and OB are worked separately.	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	NIL	NIL in 2016-17 and 27-18 till date	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	2016-17 ROM - 132150 MT recovery 82% 2017-18 ROM 129240 MT recovery 82%	2016-17 ROM -52600 MT 2017-18 ROM 35300 MT	
3c	Recovery of sailable/usable mineral from ROM production	82%	100%	
3d	Quantity of mineral reject generation	18% of ROM anticipated	NIL generated in 2016-17 and 2017-18 till date of insp.	
3e	Grade of mineral rejects generation and threshold value declared.	--	--	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM		segrgation is not being done as entire mineral is consumed without segregation.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.		No such proposal is there at present.	
3j	Provision of drilling and blasting in mineral benches	driling and blasting s proposed	driling and blasting is done as proposed with 110mm dia drill.	
3k	Provision of mining machineries in mineral benches	excavator and tipper combination proosed.	Deployed 1 excavtor and 6 Nos of tippers which are suffecient so far for the production.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		bench height of 6m is proposed for mechanised operation which is adequate.	efforts are required to maintain the uniform bench height to the extent possible.
3m	Total area covered under excavation/pits	cumulative area under pit proposed was 4.316 hectare	cumulative area under pit is About 2.1 hectare at present.	

3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0
3o	Total area put in use under different heads at the end of year	4.316 hectare under pit upto 2017-18	Total area under pit at present is about 2.1 hectare.
3p	Production of ROM mineral during the last five year period as applicable	2014-15- 134370 T 2015-16- 130920 T 2016-17 - 132150 T 2017-18 - 129240 T	2014-15- 10500 T 2015-16- 43150 T 2016-17 - 52600 T 2017-18 - 35500 T (Till Jan 18)

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 of waste proposed	No generation.	
4b	Location of topsoil, OB and mineral reject dumps	dump was proposed in NN9700- N9900 to E5000-E5100	NIL generated.	
4c	Number of dumps within lease area and outside of lease area	2 dumps proposed	NIL	Mine is not working much.
4e	Number of active and alive dumps.		NIL	
4f	Number of dead dumps.		NIL	
4g	Number of dumps established.		NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.		Not applicable	
4i	Length of Retaining wall or garland drain all along dumps		Not applicable	
4j	Number of settling ponds	--	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.	No proposal	Not mature for the purpose	
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)	meagre generation anticipated	No generation of top soil was less due to less working.	
5d	Total area fully reclaimed and rehabilitated	---	NIL	

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).		submitted	
6b	Area available for rehabilitation (ha) .	NIL	NIL as area is not mature for backfilling , rehabilitation and afforestation thereupon	
6c	afforestation done (ha).	No proposal	NIL as area is not mature for backfilling , rehabilitation and afforestation thereupon	
6d	No. of saplings planted during the year	no proposal	NIL as area is not mature for backfilling , rehabilitation and afforestation thereupon	

6e	Cumulative no .of plants	No proposal	Nil as area is not mature for backfilling , rehabilitation and afforestation thereupon
6f	Any other method of rehabilitation		---
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		area is not mature for backfilling , rehabilitation and afforestation thereupon
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings		Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil as area is not mature for backfilling , rehabilitation and afforestation thereupon
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir		Not applicable.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	---	---
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil as area is not mature for backfilling , rehabilitation and afforestation thereupon

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil as area is not mature for backfilling , rehabilitation and afforestation thereupon.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	area is not mature for backfilling , rehabilitation and afforestation thereupon
6p	Compliance of environmental monitoring (core zone and buffer zone)		Complied

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Nil	
7c	Different grade of mineral sorted out at mines.	Nil	Nil	
7d	Any beneficiation process at mines	No proposal	No benefeciation is done in the mine	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	meagre generation anticipated.	No top soil generation in 2016-17 and 2017-18 till date.	
8b	Concurrent use or storage of topsoil	-	No generation in 2016-17 and 2017-81 till date of inspection	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	separate dump of waste was proposed	Not done.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use		Not applicable as area is not mature for the purpose.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)		Not applicable as area is not mature for the purpose.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100 over 0.2 hectare	120 saplings Planted out side the lease area
8h	Water sprinkling on roads to control airborne dust		complied

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted upto Jan 17 Annual return submitted upto 2016-17		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Geologist and Mining Engineer appointed as furnished.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		About 2 to 2.1 hectare area is covered under pit.
9d	Scrutiny of Annual return on afforestation		Done as reported outside the lease area
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		Nil reported
9f	Scrutiny of Annual return on ROM stock and/or graded ore		ROM generation - 52600 tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Pit mouth value rs 250.99 PMT
9h	Scrutiny of Annual return on fixed assets	---	---
9k	Scrutiny of Annual return on mining machineries		data furnished

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
MCDR17	Rule 11(1)	05/04/2018			
MCDR17	Rule 11(4)	05/04/2018			

Date :

(MANISH K. MAINDIRATTA)

Indian Bureau of Mines