

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/RR/LST-4/HYD

**Mine code :** 38APR23003

- (i) Name of the Inspecting : **M029** ) **MADHU SUDHAN YADAV M**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri.Mallikarjun Reddy, Mines Manager, Sri.Chaitanya N  
Official with  
Designation
- (iv) Date of Inspection : 12/12/2020
- (v) Prev.inspection date : 11/10/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SANGAMKALAN NO. 2**
- (b) **Registration NO.** : **613**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **TELANGANA**
- District : **RANGAREDDY**
- Village : **SANGAMKALAN**
- Taluka : **TANDUR (MANDAL**
- Post office : **MALKAPUR**
- Pin Code : **501147**
- FAX No. : **040-28521526**
- E-mail : **vcil@rediffmail.com**
- Phone : **044-8592562**
- (f) **Police Station** :
- (g) **First opening date** : **15/07/2002**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **VISAKA CEMENT IND. LTD.**  
**correspondance** **MALKAPUR, TANDUR (M)**  
**RANGA REDDY DIST.**
3. (a) **Lease Number** : **APR1350**
- (b) **Lease area** : **112.68**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **03/09/2048**
4. **Mineral worked** : **LIMESTONE** **Main**

## 5. Name and Address of the

Lessee : THE INDIA CEMENTS LTD  
 DHUN BUILDING 827, ANNA  
 SALAI CHENNAI CHENNAI CITY  
 TAMIL NADU  
 Phone:282521526  
 FAX :28520638

Owner : Mrs laxmi Aparna Srikumar  
 Coromandal tower, 93,  
 Santhome High Avenue, raja  
 Annamalaipuram, Chennai  
 CHENNAI CITY TAMIL NADU  
 Phone:  
 FAX :

Agent : SUBHASH CHANDRA BOSE  
 M/s ICL, Malkapur Post,  
 Tandur Manadal, Vikarabad  
 District, Telangana-501158  
 RANGAREDDY TELANGANA  
 Phone:  
 FAX :

Mining Engineer  
 Name : V. Raghevendra, Full Time  
 Qualification :  
 Appointment/ : 05/03/2010  
 Termination date

Manager  
 Name : . T Mallikarjun Reddy  
 Qualification :  
 Appointment/ : 09/08/2018  
 Termination date

6. Date of approval of Mining	:	Modif.of approved Mining Plan	07/12/2003
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	24/02/2005
	:	Modif.approved Mining Scheme	07/03/2008
	:	Mining Scheme rule 12 MCDR1988	04/08/2010
	:	MP modif under MCR 1960	24/08/2015
	:	MP modif under 17(3) MCR 2016	20/12/2019

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2019-20 - 12 Core boreholes	2018-19 - 22 Core boreholes drilled ( 10 Nos. of 2018-19 and 12 Nos. of 2019-20)	
1b	Exploration over lease area for geological axis 1 or 2	Entire area to be explored in G1 scale.	73 boreholes of 3395m drilled to cover the entire area into G1 level of exploration.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	----	Exploratory agency - Natural Resources Development Co-operative Society Ltd. (NRDCS), hyderabad. Rs.2163506/- spent for drilling and sampling from 2015-16 to 2019-20 for 22 Nos. boreholes.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	----	Entire area is covered under G1 level of exploration.	
1e	Balance reserve as on 01/04/20	----	Proved Reserves as on 01/12/2020 - 88.73 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Entire area is covered under G1 level of exploration.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed co-ordinates: W 13.5 to W 6.5 and S 17.3 to S22.8	Work done within the proposed co-ordinates.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches for topsoil and mineral is proposed.	One bench of around 1m height has been developed in top soil and 6 mineral benches developed.	
2c	Stripping ratio or ore to OB ratio	No proposal	Nil	
2d	Quantity of topsoil generation in m3	2019-20- 1600 cu.m	2019-20 - Nil	

2e	Quantity of overburden generation in m3	No proposal	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No OB is generated in the proposed mining area and the limestone is found just below the top soil horizon of around 1m thickness.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2019-20 - 2400270 Te 2020-21 - 2987045 Te	2019-20 - 2251000 Te 2020-21 - 824764 Te (till Nov'20)	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Nil	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	

3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed in the mineral benches.	During inspection it was observed that Wagon drill being used for drilling with a blast hole dia of 115 mm & depth of 9 m, spacing of 5 meters and burden of 4 meters. Blasting is being carried out with slurry and emulsion type explosive with NONELS as initiating device.
3k	Provision of mining machineries in mineral benches	It was proposed to use wagon drills, exvators & dumpers for drilling, loading & transporting of ore to crushing plant.	During inspection, it was observed that wagon drills, dumpers & excavators are being used for drilling, loading & transportation of ore to crushing plant
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain the bench height of 8-9 meters	During inspection it was noticed that the bench height is being maintained between 8-9 m and digging height of the excavators are compatible with bench height.
3m	Total area covered under excavation/pits	53.17 Ha till 2024-25.	42.57 Ha till 2019-20.
3n	Ore to OB ratio for the pit/mine during the year.	Not applicable	nil
3o	Total area put in use under different heads at the end of year	55.89 Ha till 2024-25.	44.35 Ha till 2019-20.
3p	Production of ROM mineral during the last five year period as applicable	2015-16 - 2399883 tonnes 2016-17 - 2399985 tonnes 2017-18 - 2400462 tonnes 2018-19 - 2400289 tonnes 2019-20 - 2400270 tonnes 2020-21- 2992798 tonnes	2015-16 - 1557094 tonnes 2016-17 - 1696873 tonnes 2017-18 - 1566715 tonnes 2018-19 - 2017797 tonnes 2019-20 - 2251000 tonnes 2020-21- 824764 tonnes (till Nov'20)

3q	General remarks of inspecting officers on method of mining etc.	The limestone mineral has been stacked at various places in the working pit. Violation issue as per rule.
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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)	Top soil dumping is proposed. No proposal for OB and mineral reject.	Topsoil generated has been used for plantation.	
4b	Location of topsoil, OB and mineral reject dumps	Topsoil - W6.5 to W7.0 and S16 to S16.6.	No topsoil dump maintained. Topsoil generated has been used for plantation.	
4c	Number of dumps within lease area and outside of lease area	One topsoil dump within lease area.	No topsoil dump developed.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Topsoil dump proposed outside UPL.	Topsoil dump not developed.	
4e	Number of active and alive dumps.	One	Nil	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	One	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	

4k	Specific comments of inspecting officer on waste dump management			Top soil dump not developed in the lease area. Topsoil generated is utilised for plantation at 7.5m safety zone along the mine boundary.
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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.	No proposal	Nil	
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)	Proposed	Topsoil is being utilised as and when generated.	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The pit is not mined out upto its ultimate pit limit to start backfilling.

#### 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).	To be submitted	Submitted in time	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	

6c	afforestation done (ha).	2019-20 - 0.5 Ha 2020-21 - 0.5 Ha	2019-20 - 0.13 Ha 2020-21 - Nil	
6d	No. of saplings planted during the year	2019-20 - 1000 Nos. 2020-21 - 500 Nos.	2019-20 - 1500 Nos. 2020-21 - Nil	Violation issued for not carrying out plantation during the year 2020-21.
6e	Cumulative no. of plants	---	105496 Nos. till 2019-20.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	
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	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil	



6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring of core and buffer zone.	Quarterly environmental monitoring carried out during 2019-20 and all the parameters are within the permissible limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM to be utilized directly for captive purpose, hence no grade wise sorting is proposed within the ML.	2019-20 - 2251000 Te	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	

7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive plant.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Topsoil generated and utilised for plantation.	
8b	Concurrent use or storage of topsoil	Proposed	Topsoil used for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	
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)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 Nos. saplings over 0.5 Ha in the year 2019-20.	1000 Nos. saplings over 0.13 Ha in the year 2019-20.	

8g	Survival rate	90%	75%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression.	Water tanker is provided for dust suppression.	Plantation is being carried out to improve the aesthetic beauty in and around the lease area.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted in time	Submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri.Mallikarjun Reddy Mining Engineer - Sri. Shiva Kumar Geologist - Sri.Janardhan Reddy	Manager, Mining Engineer and Geologist working as per submission.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C workings - 42.57 Ha Plants, buildidings and roads - 0.4 Ha Top soil dump - 3.05 Ha	Same as submitted.	
9d	Scrutiny of Annual return on afforestation	1000 Nos.	Broadly as submission and same quantity is verified in afforestation register maintained.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generated in the mine.	
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 is reported as Rs.171.10/-	The details of DMF and NMET have not been furnished in the cost of production calculation. The taxes details considered for cost of production is not matching with the details submitted in cost of production calculation.	Violation issued as per rule.
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.50030681/-	----	
9k	Scrutiny of Annual return on mining machineries	Drill machine - 01 No. Excavator - 02 Nos. Tippers - 15 Nos. Explosive Van - 1 No. Water Tanker - 01 No. Dozer - 1 No. Jeep- 01 No.	Machineries found in the mining area.	

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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
MCDR17	Rule 11(1)	22/12/2020			
MCDR17	Rule 31(1)	22/12/2020			
MCDR17	Rule 45(7) (a)	22/12/2020			

**Date :**

**(MADHU SUDHAN YADAV M)**

Indian Bureau of Mines