

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/RR/LST-3/HYD

Mine code : 38APR23002

- (i) Name of the Inspecting : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri T Mallikarjun Reddy Mines Manager
Official with
Designation
- (iv) Date of Inspection : 17/09/2021
- (v) Prev.inspection date : 11/12/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SANGAMKALAN NO. 1**
- (b) **Registration NO.** : **613/2011**
- (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 : 501157
- FAX No. :
- E-mail : MKP_MINES@INDIACEMENTS.CO..
- Phone : 08411242247
- (f) Police Station : TANDUR
- (g) First opening date : 15/10/1998
- (h) Weekly day of rest : SUN
2. Address for : M/S INDIA CEMENTS LIMITED
correspondance : 93, KARPAGAM AVENUE
CHENNAI, TAMIL NADU
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 : Dinesh Mangal
 India Cements ,Sangamkalan
 Village Vikarabad district
 Telangana State RANGAREDDY
 TELANGANA
 Phone:
 FAX :

Mining Engineer

Name : T MURALIDHAR,Full Time
 Qualification : BTECH MINING
 Appointment/ :
 Termination date

Geologist

Name : N.JANARDHANREDDY,Full Time
 Qualification : M.SC.(GEOLOGY)
 Appointment/ : 26/04/2017
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	23/09/1998
Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	24/08/2000
	:	Modif.approved Mining Scheme	07/12/2003
	:	Mining Scheme rule 12 MCDR1988	07/03/2008
	:	Mining Scheme rule 12 MCDR1988	12/02/2014
	:	MP modif under 17(3) MCR 2016	02/02/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None	None	None
1b	Exploration over lease area for geological axis 1 or 2	None	None	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	None
1e	Balance reserve as on 01/04/20	---	The reserves as on 1.4.2021 are 26 Million tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc	None	None	The entire potentially mineralised zone is explored under G1 level.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to develop the mine between the following gridlines S - 909 to S - 587 and W - 1300 to W - 1416	The mine being developed as proposed.	None
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Systematic benches proposed in mineral	The same was noticed.	None
2c	Stripping ratio or ore to OB ratio	None	None	None
2d	Quantity of topsoil generation in m3	None	None	None

2e	Quantity of overburden generation in m3	None	None	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	None	None	None

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	None
3b	Quantity of ROM mineral production proposed	1 Million tonnes	The actual production reported was 105000 tonnes.	None
3c	Recovery of sailable/usable mineral from ROM production	None	None	None
3d	Quantity of mineral reject generation	None	None	None
3e	Grade of mineral rejects generation and threshold value declared.	None	None	None
3f	Quantity of sub grade mineral generation.	None	None	None
3g	Grade of sub grade mineral generation	None	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	None	None	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	None

3j	Provision of drilling and blasting in mineral benches	It is proposed to carry out drilling and blasting in mineral benches.	The drilling is being carried out by Wagon drill of 115 mm dia and blasting is carried out by ANFO.	None
3k	Provision of mining machineries in mineral benches	It was proposed to transport the mineral by using excavator and tippers.	The mineral being excavated and transported as proposed.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain a bench height of 8.5 meters.	The same being maintained.	None
3m	Total area covered under excavation/pits	41.75 ha	34.92 ha	None
3n	Ore to OB ratio for the pit/mine during the year.	None	None	None
3o	Total area put in use under different heads at the end of year	----	Area under pit - 34.040 ha Area under Infrastructure - 0.400 ha	None
3p	Production of ROM mineral during the last five year period as applicable	The production proposed during the last five years is as follows: 2016-17 - 1.6 million tonnes 2017-18 - 1.6 Million tonnes 2018-19 - 1.0 Million tonnes 2019-20 - 1.0 Million tonnes 2020-21 - 1.0 Million tonnes	The Actual production reported for the last five years is as follows: 2016-17 - 0.5 Million tonnes 2017-18 - 0.84 Million tonnes 2018-19 - 0.63 Million tonnes 2019-20 - 0.47 Million tonnes 2020-21 - 0.10 Million tonnes	The actual production not exceeded the proposed quantity.
3q	General remarks of inspecting officers on method of mining etc.	None	None	None

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	None	None	None
4b	Location of topsoil, OB and mineral reject dumps	None	None	None
4c	Number of dumps within lease area and outside of lease area	None	None	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None	None	None
4e	Number of active and alive dumps.	None	None	None
4f	Number of dead dumps.	None	None	None
4g	Number of dumps established.	None	None	None
4h	Whether Retaining wall or garland drain all along dumps are there.	None	None	None
4i	Length of Retaining wall or garland drain all along dumps	None	None	None
4j	Number of settling ponds	None	None	None
4k	Specific comments of inspecting officer on waste dump management	None	None	As there is no OB, no waste dump were proposed.

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.	None	None	None

5b	Area under backfilling of mined out area	None	None	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	None	None
5d	Total area fully reclaimed and rehabilitated	None	None	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	None

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).	---	The Annual report on protective measure submitted by the lessee in time.	None
6b	Area available for rehabilitation (ha) .	None	None	None
6c	afforestation done (ha).	1 ha	1 ha`	None
6d	No. of saplings planted during the year	500 no.s	500 no.s	None
6e	Cumulative no .of plants	6000 no.s	6000 no.s	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	----	Rs 2,50,000/-	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None	None	None

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	None	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	None	None	None
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	None	None	None
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	None	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to carry out quarterly monitoring of environmental parameters regularly.	The quarterly monitoring of the environmental parameters being carried out regularly.	None

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None	None
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The ROM reported was 105000 tonnes during 2020-21.	The same was dispatched to the cement plant of lessee.	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	None	None
7c	Different grade of mineral sorted out at mines.	None	None	None
7d	Any beneficiation process at mines	None	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	None

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	None	None	None
8b	Concurrent use or storage of topsoil	None	None	None

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	None	None	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None	None	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	None	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	---	Except for the plantation made by lessee, no other vegetation was noticed.	None
8g	Survival rate	70%	70%	None
8h	Water sprinkling on roads to control airborne dust	It was proposed to control dust by using water sprinkling.	During the inspection no such water sprinkling measures was observed.	A violation for not controlling dust suppression was issued.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	A violation was issued to lessee as no dust control measures were taken up.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	-----	The Annual and Monthly returns are submitted regularly by lessee.	None

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the Annual return 2020-21 Sri T Muralidhar and Sri B Vinod Kumar are appointed as Mining Engineer and Geologist respectively.	The same was observed during the inspection.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The area under pits as per Annual return 2020-21 was 34.040 ha	The same was confirmed during the inspection.	None
9d	Scrutiny of Annual return on afforestation	About 500 saplings have been planted as per Annual return 2020-21	The same was noticed during the inspection.	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None	None	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The ROM reported as per Annual return 2020-21 was 105000 tonnes.	The same was checked and confirmed during the inspection.	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price reported as per Annual return 2020-21 was Rs.217.26 per tonne.	The same was verified during the inspection.	None
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets as reported in the Annual return 2020-21 was Rs. Three crore twenty laksh.	The same was not verified.	None

9k	Scrutiny of Annual return on mining machineries	The list of Mining Machinery used in the lease as reported in the Annual report is as below: 1. Air compressor - 1 no. 2. Back hoe - 2 no. 3. Tipper - 5 no.s 4. Rockdrill - 1 no. 5. Water Tanker - 1 no.	The same was observed during the inspection.	None
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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 31(1)	21/09/2021			
MCDR17	Rule 40	21/09/2021			

Date :**(A.V.Ramesh Kumar)**

Indian Bureau of Mines