

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

**MCDR inspection REPORT  
Hyderabad regional office**

**Mine file No :** AP/CDP/L.ST-3/HYD

**Mine code :** 38APR04002

- (i) Name of the Inspecting Officer and ID No. : **K007** ) **SHAIVAL KARTIKEYA**
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine Official with Designation : Shri Jaya Bharat Reddy, GM(Mines)
- (iv) Date of Inspection : 04-DEC-21
- (v) Prev.inspection date : 13-MAR-21

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **NIDUZUVVI**
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : CUDDAPAH
- Village : NIDUZUVVI
- Taluka : KAMALAPURAM
- Post office : YERRAGUNTALA
- Pin Code : 516309
- FAX No. : 08563-75158
- E-mail :
- Phone : 08563-201493
- (f) **Police Station** : YERRAGUNTALA
- (g) **First opening date** : 11-JAN-78
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/S THE INDIA CEMENTS LTD.  
YERRAGUNTALA  
KADAPA DT.
3. (a) **Lease Number** : APR0020
- (b) **Lease area** : 335.06
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 06-JAN-24
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 : R.K.DAS  
 DHUN BLDG 827,ANNASALAI  
 CHENNAI CITY TAMIL NADU  
 Phone: 04428521526  
 FAX : 04428520638

Agent : D.B.K.MURTHY  
 M/S INDIA CEMENTS LIMITED  
 YERRAGUNTLA KADAPA CUDDAPAH  
 ANDHRA PRADESH  
 Phone: 08563-275158  
 FAX : 08563-275154

## Mining Engineer

Name : N.JAYABHARATREDDY,Full Time  
 Qualification : B.E(MINING)  
 Appointment/ : 06-AUG-11  
 Termination date

## Mining Engineer

Name : G.VENKATESWARLU,Full Time  
 Qualification : B.E(MINES)  
 Appointment/ : 09-FEB-08  
 Termination date

## Geologist

Name : D.P.MUKHERJEE,Part Time  
 Qualification : M.TECH APPLIED GEOLOGY  
 Appointment/ :  
 Termination date

## Geologist

Name : B.RAVI,Full Time  
 Qualification : M.SC (GEOLOGY) (UNIVERSITY OF MADRAS)  
 Appointment/ : 04-OCT-17  
 Termination date

## Manager

Name : MD. NIYAZI  
 Qualification : B.E. & FCC  
 Appointment/ : 15-OCT-07 06-AUG-11  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	23-MAY-97
		Mining Scheme rule 12 MCDR1988	23-OCT-00
		Mining Scheme rule 12 MCDR1988	05-MAR-04
		Mining Scheme rule 12 MCDR1988	24-APR-09
		Renewal under rule 24 MCR1960	22-AUG-14

MP modif under 17(3) MCR 2016

24-MAY-19

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	F.Y. 2019-20: Block -1: 08 nos. of core boreholes with cumulative depth of 160.0 meters. Block -2: 04 nos. of core boreholes with cumulative depth of 80.0 meters. Block -3: 15 nos. of core boreholes with cumulative depth of 590.0 meters.	F.Y. 2019-20: Block -1: 04 nos. of core boreholes with cumulative depth of 84.0 meters. Block -2: 04 nos. of core boreholes with cumulative depth of 104.50 meters. Block -3: None of the boreholes have been drilled so far.	Violation has been pointed out for shortfall in the proposed exploration programme.
1b	Exploration over lease area for geological axis 1 or 2	Proposed to convert 26.18 Ha. mining lease area in to G1 level during F.Y. 2019-20.	26.18 Ha. lease area has not been converted in to G1 level so far.	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned in the approved document.	NIL	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Total 26.18 Ha. in to G1 level.	26.18 Ha. lease area has not been explored in to G1 level so far.	-do-

1e	Balance reserve as on 01/04/20	As on 01.04.2021:  Under (111): 82.288 Million Tonnes	As on 01.04.2021:  Under (111): 83.598 Million Tonnes	Average Grade of Limestone: CaO: 45.35% SiO2: 10.65%
1f	General remarks of inspecting officers on geology, exploration etc	The Limestone deposits occurring in the leasehold is a part of the 'Kurnool Group'. The Kadapa Basin of peninsular India is tectonic and orogenic belt of Precambrian rock of 'Cuddapah' and Kurnool system. The Proterozoic meta- sedimentary sequence, Kadapa & Kurnool occupy large tracts in the south-central part of the Kurnool Sub-basin (Intra-cratonic). The underlying 'Cuddapah' are mainly quartzites with some slates and associated limestone.	An angular uncormity separates the Cuddapah formation from the Kuenool formation, which are mainly limestone and shale with basal quartzite. Within the lease area, the limestone occurs as grey limestone resting over quartzite/conglome rate. The general strike of the formation is NNE- SSW with beds usually dipping NE to shallow angles of 3 degree to 5 degree (sub horizontal), as observed in the sporadic outcrops and mine bench faces, exposed in the area.	

---

Development :

---

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

2a	Location of development w.r.t.lease area	F.Y. 2020-21: In between local co-ordinates  Block I: N0119 to N0684 and W0258 to E0850  Block 2: S0162 to S0348 and W0347 to W581	F.Y. 2020-21: In between local co-ordinates  Block I: N0119 to N0684 and W0258 to E0850  Block 2: S0162 to S0348 and W0347 to W581	Development and Production has been carried out in the proposed locations. No major deviation has been found.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benching of Topsoil and Mineral/Ore have been proposed Topsoil: 01 no. Mineral/Ore: 03 nos.	Separate benches of Topsoil and Mineral/Ore have been developed and maintained.  Topsoil: 01 no. Mineral/Ore: 03 nos.	-
2c	Stripping ratio or ore to OB ratio	1 : 0.05	Not Applicable.	No waste/OB/IB/SB has been generated during F.Y. 2020-21.
2d	Quantity of topsoil generation in m3	14340.0 CuM	3510.0 CuM	Less topsoil has been generated due to less production and development during F.Y. 2020-21.
2e	Quantity of overburden generation in m3	No overburden will be generated during F.Y. 2020-21	No overburden has been generated during F.Y. 2020-21	The development and production is being done through fully mechanized means. G1 Area: 297.58 Ha. and G3 Area: 26.18 Ha.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The development and production is being done through fully mechanized means. G1 Area: 297.58 Ha. and G3 Area: 26.18 Ha.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 nos.	02 nos.	-
3b	Quantity of ROM mineral production proposed	F.Y. 2020-21: 999970.00 Metric Tonnes	F.Y. 2020-21: 290000.00 Metric Tonnes	Less production due to lack of market demand.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No mineral reject will be generated during plan period.	No mineral reject has been generated during F.Y. 2020-21.	-
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	NIL	-
3f	Quantity of sub grade mineral generation.	No mineral sub-grade will be generated during plan period.	No mineral sub-grade has been generated during F.Y. 2020-21.	-
3g	Grade of sub grade mineral generation	No proposal	NIL	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	NIL	The average grade of CaO 46% has been produced and consumed in the captive plant.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study has been proposed during plan period.	Not applicable.	-

3j	Provision of drilling and blasting in mineral benches	Mineral/Ore: Dia.: 115 mm Spacing: 6.0 m Burden: 4.0 m Depth: 8.0 m Explosive: ANFO	Mineral/Ore: Dia.: 115 mm Spacing: 6.0 m Burden: 4.0 m Depth: 8.0 m Explosive: ANFO	-
----	--	---	--	---



3k	Provision of mining machineries in mineral benches	1. Atlas Copco Compressor 01 no. with 450 CFM capacity 2. L & T 300 CK poclain- 1 01 no. with 3.60 CuM bucket capacity 3. L & T Komatsu 01 no. with 2.6 CuM bucket capacity 4. DTH Drill 01 no. with 115 mm dia bit capacity 5. BEML Dumpers 01 no. with 35.0 Tonnes capacity 6. HM Dumpers 02 nos. with 35.0 Tonnes capacity 7. Tippers 02 nos with 20 Tonnes capacity 8. Water Sprinkler 01 no. with 10KL capacity 9. Explosive Van 01 no. with 6.0 Tonnes capacity 10. Jeep 01 no. 11. Maintenance Van 01 no. Po	1. Back Hoe 01 no. with 2.6 CuM bucket capacity 2. Dumpers 02 nos. with 31.75 Tonnes capacity 3. Air Compressor 01 no. with 465 CUM/MN capacity 4. Blast Hole Drill 01 no. with 115 mm dia bit capacity 5. Water Tanker 01 no. with 10000 Liters capacity 6. Explosive Van 01 no. with 6.0 Tonnes capacity	-
----	--	--	---	---

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil: 1.0 m to 1.50 m Mineral/Ore: 2.0 to 8.0 m	Topsoil: 1.0 m to 1.50 m Mineral/Ore: 2.0 to 8.0 m	Maintained as per proposal.
3m	Total area covered under excavation/pits	53.54 Ha. up to end of F.Y. 2023-24	45.50 Ha. up to end of F.Y. 2020-21	-
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.05	Not Applicable.	No waste/OB/IB/SB has been generated during F.Y. 2020-21.
3o	Total area put in use under different heads at the end of year	Pit- 53.54 Ha. Waste/reject- 0.60 Others- 16.45 Ha. Up to end of F.Y. 2023-24	Pit- 45.50 Ha. Waste/reject- 0.0 Ha. Others- 46.28 Ha. Up to end of F.Y. 2020-21	Out of 46.28 Ha. ; 24.68 Ha. area has been utilized for plantation.
3p	Production of ROM mineral during the last five year period as applicable	Yr. 2016-17: 1000233.00 Metric Tonnes Yr. 2017-18: 1999461.00 Metric Tonnes Yr. 2018-19: 999828.00 Metric Tonnes Yr. 2019-20: 999970.00 Metric Tonnes Yr. 2020-21: 999970.00 Metric Tonnes	Yr. 2016-17: 406700.00 Metric Tonnes Yr. 2017-18: 533250.00 Metric Tonnes Yr. 2018-19: 640350.00 Metric Tonnes Yr. 2019-20: 400500.00 Metric Tonnes Yr. 2020-21: 290000.00 Metric Tonnes	-
3q	General remarks of inspecting officers on method of mining etc.			Mining is being carried out through the opencast method with fully mechanized means using conventional method of drilling and blasting.

---

Solid Waste Management - Dumping:

---

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposal has been given in the approved document for separate stacking of topsoil in the earmarked locations within lease area. Mainly along Highway.	Stacking of Topsoil is being done in the earmarked locations within mining lease area. Mainly along Highway.	-
4b	Location of topsoil, OB and mineral reject dumps	Topsoil: Stacking has been proposed along southern side of the lease boundary in Block 1 and Northern side of Block 2 in between local co-ordinates: N0043 to S0049 and W0277 to W0799  With maximum height of 1.0 m.	Topsoil: Stacking has been done along southern side of the lease boundary in Block 1 and Northern side of Block 2 in between local co-ordinates: N0043 to S0049 and W0277 to W0799	-
4c	Number of dumps within lease area and outside of lease area	No Proposal.	NIL, No waste dump found within lease area.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Topsoil stacking has been proposed beyond ultimate pit limit.	Topsoil stacking has been done beyond ultimate pit limit.	-
4e	Number of active and alive dumps.	01 nos. (Topsoil)	01 nos. (Topsoil)	-
4f	Number of dead dumps.	No Proposal.	NIL	-
4g	Number of dumps established.	No Proposal.	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			No overburden and waste have been generated during F.Y. 2020-21.

---

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 during F.Y. 2020-21.	NIL, Area not matured for the reclamation and the rehabilitation.	-
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)	No Proposal	NIL	-
5d	Total area fully reclaimed and rehabilitated	No Proposal	NIL	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			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 before due date.	Information has been cross verified during inspection.	-
6b	Area available for rehabilitation (ha) .	No Proposal	NIL	-
6c	afforestation done (ha).	No Proposal	NIL	-
6d	No. of saplings planted during the year	No Proposal	NIL	-
6e	Cumulative no .of plants	No Proposal	NIL	-
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)Afforestati on 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	1000 nos.	1200 nos.	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.20 Ha.	2.20 Ha.	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By plantation	By plantation	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposal has been given in the approved document for quarterly monitoring of the environmental parameters in the core and buffer zone.	Being done as per proposal.	All the parameters are within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			NIL

---

## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal.	ROM mineral is being directly dispatched to the crusher erected adjacent to the lease boundary. No grade wise sorting has been done.	Average grade of Limestone with 44% to 46% Cao has been dispatched to the captive plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	-do-	-do-
7c	Different grade of mineral sorted out at mines.	No proposal	-do-	-do-
7d	Any beneficiation process at mines .	No proposal	NIL	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			In view of the Mineral conservation, the entire produced Limestone with 34% CaO and above is being utilized in the Captive Cement Plant.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	F.Y. 2020-21: 14340.0 CuM of topsoil will be stacked along Highway in between local co-ordinates N0043 to S0049 and W0277 to W0799  With maximum height of 1.0 m.	F.Y. 2020-21: 3510.0 CuM of topsoil has been stacked along Highway in between local co-ordinates N0043 to S0049 and W0277 to W0799	-

8b	Concurrent use or storage of topsoil	Topsoil will be utilized for plantation over 1.20 Ha. area.	Topsoil has been utilized for plantation over 2.20 Ha. area.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	F.Y. 2020-21: 14340.0 CuM of topsoil will be stacked along Highway in between local co-ordinates N0043 to S0049 and W0277 to W0799  With maximum height of 1.0 m.	F.Y. 2020-21: 3510.0 CuM of topsoil has been stacked along Highway in between local co-ordinates N0043 to S0049 and W0277 to W0799	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Topsoil will be utilized for plantation over 1.20 Ha. area.	Topsoil has been utilized for plantation over 2.20 Ha. area.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	1.20 Ha. area along highway/buffer zone will be rehabilitated by 1000 nos. of plants.  In between local co-ordinates: N0043 to S0049 and W0277 to W0799	2.20 Ha. area along highway/buffer zone has been rehabilitated by 1200 nos. of plants.  In between local co-ordinates: N0043 to S0049 and W0277 to W0799	-



8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 nos. of sapling will be planted along Highway over 1.20 Ha. area.	1200 nos. of saplings have been planted along Highway over 2.20 Ha. area.	-
8g	Survival rate	Not mentioned in the approved document.	Approx 70%	-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads to control airborne dust through the water tanker.	Being done as per proposal.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			NIL

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to November 2021 A.R. Submitted up to F.Y. 2020-21	M.R. Submitted up to November 2021 A.R. Submitted up to F.Y. 2020-21	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri Y.Saidulu Mining Engineer: Shri Y.Saidulu Geologist: Shri B. Ravi	Manager: Shri Y.Saidulu Mining Engineer: Shri Y.Saidulu Geologist: Shri B. Ravi	Shri L. Somasekhara Reddy as Manager w.e.f. 16/10/2021

---

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 45.50 Ha. Waste/reject- 0.0 Ha. Others- 46.28 Ha.	Pit- 45.50 Ha. Waste/reject- 0.0 Ha. Others- 46.28 Ha.	Out of 46.28 Ha. ; 24.68 Ha. area has been utilized for plantation.
9d	Scrutiny of Annual return on afforestation	Within Lease Area: 2000 nos. with 70% Survival rate. Outside Lease Area: 2080 with 75% survival rate.	Within Lease Area: 2000 nos. with 70% Survival rate. Outside Lease Area: 2080 with 75% survival rate.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject: NIL Grade: NIL	Mineral Reject: NIL Grade: NIL	No mineral reject has been generated during F.Y. 2020-21
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock ROM: NIL Graded Ore: 29500.00Metric Tonnes	Closing Stock ROM: NIL Graded Ore: 29500.00Metric Tonnes	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value: NIL Ex Mine Price: Rs. 239.76 Per Metric Tonne Cost of Production: Rs. 239.76 Per Metric Tonne	Sale Value: NIL Ex Mine Price: Rs. 239.76 Per Metric Tonne Cost of Production: Rs. 239.76 Per Metric Tonne	NIL
9h	Scrutiny of Annual return on fixed assets	Rs. 141093634/-	Rs. 141093634/-	NIL
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns.	Cross verified from the field logbooks.	NIL

**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
Rule 11(1)	22-JAN-21		

**Date :**

(**SHAIVAL KARTIKEYA**)

Indian Bureau of Mines