

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : 160) kalmata.M.K
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Sri L. Somasekhara Reddy, Mines Manager.
Official with
Designation
- (iv) Date of Inspection : 16-MAR-23
- (v) Prev.inspection date : 04-DEC-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : NIDUZUVVI
- (b) **Registration NO.** : IBM/613/2011
- (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 : ygl_mines@indiacements.co.:
- 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** : 50
- (d) **Date of Expiry** : 31-MAR-30
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 : L.Somasekhara reddy,Full Time
 Qualification : B.E.Mining
 Appointment/ : 16-OCT-21
 Termination date

Geologist

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

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	23-MAY-97
Plan/Scheme of Mining		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	No exploration proposals in the year 2021-22 and 2022-23.	No exploration has been carried out in the year 2021-22	However, there was a proposal to drill 25 boreholes in the year 2019-20, however, lessee has drilled only 08 boreholes, due Surface right issues and part tranfer of the lease leseess was unable to drill remaining boreholes. However, based on last inspection, this office has issued violation and showcause for the same under Ruel 11(1) of MCDR 2017. So no fresh violation is pointed out.
1b	Exploration over lease area for geological axis 1 or 2	None in the year 2021-22 & 2022-23.	No exploration has been carried out in the year 2021-22 and 2022-23.	About 26.18 Ha was proposed to explore under G-1 level, However, due to suface right issues approximately only 5.00 ha is explored. The mine was previously inspected by SMG and violation is pointed out for the same followed by shocause notice so no fresh violation is pointed out for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None.	None.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	None in the year 2022-23.	about 26.00 ha was under G-1 level, out of which only 5.00 ha is converted into G-1.	Due to surface right issues and part transfer of the lease lessee was unable to do the exploration.

1e	Balance reserve as on 01/04/20	Reserves/resources as per the approved document dated 24.05.2019. (As on 31.12.2018, In million tonnes) Proved M Reserves (111) - 84.47 Feasibility M resources (211) - 128.98 Inferred M Resources (333)- 13.41 Total: -226.86	Reserves/resources as on 01.04.2022. (In million tonnes) Proved M Reserves (111) - 83.60 Feasibility M resources (211) - 128.98 Inferred M Resources (333)- 13.41 Total: -225.99	Reserves/resources were updated by depleting production carried out from 01.01.2019 to 31.03.2022.
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1f	General remarks of inspecting officers on geology, exploration etc	The deposit is a bedded deposit and belongs to kurnool group. General strike of the formation is NNE-SSW and dip varies from 3 to 5 degree towards NE. Out of 328.26Ha, about 302 Ha is explored under G-1 level. In the year 2019-20, proposal was given to convert G-3 level of exploration to G-1 level. However, due to surface right issue and part tranfer of the lease to some other lessee. The said exploration is not completed as proposed.	The mine was previoully inspected by SMG and violation is pointed out for the same followed by showcase notice. So no fresh violation is pointed out.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	In the year 2022-23, there was a proposal to work between the co-ordinates N 100 to N 310 & W 70 to W440 in the Eastern part and N 200 to N 645 & W720 to W960 in block no-1. In block no-II proposal was given between the co-ordinates S 40 to S430 & W390 to W690.	Actual working carried out is as follows, In Block I working was carried out irregularly between the co-ordinates N 60 to N 530 E 50 to W890 and in Block no-II, working has been carried out between the co-ordinates S 60 to S360 and W210 to W520.	Working has been not carried out as per the the proposal and Violation is pointed out for the same under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches were proposed in ore only.	Benches were made in ore only.	Topsoil was completely removed by scarping.
2c	Stripping ratio or ore to OB ratio	1:0.04	1:0	In the approved mining plan stripping ration is mentioned for ore to topsoil and not for Ore to OB. No waste generation is proposed in the year 2022-23 and striping ratio is 1:0.
2d	Quantity of topsoil generation in m3	18060 in the year 2022-23.	7460	Production and development has been not carried out as per the proposal due to lack of demand, so topsoil is not removed as per the proposal.
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	Working has been carried out in two pits as per the proposal and bench heights were maintained at 6.00 to 7.00 mtrs. The bench parameters maintained are suitable to the method of mining adopted. However, lessee has not carried out working in the proposed area and violation is pointed out for the same under Rule 11(1) of MCDR 2017.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two	Two	Dimension of the pit is as follows. Pi no-1, 950m(l) x 425m(w) x 25m(h), Pit No-2, 290 m(l) x 196m(l) x 14m(h)
3b	Quantity of ROM mineral production proposed	9,99,998 tonnes in the year 2022-23.	5,33,745 tonnes (up to feb 2023)	Production is achieved only 53% up to feb 2023. Based on the office records RCOM has issued violation letter for lessee production under Rule 11(1) of MCDR 2017, so no fresh violation is pointed out.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Lessee is consuming entire ROM by blending in the captive plant linked to the mine.
3d	Quantity of mineral reject generation	None.	None.	Lessee is consuming entire ROM by blending.
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	
3f	Quantity of sub grade mineral generation.	None.	None.	None.

3g	Grade of sub grade mineral generation	Not applicable.	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical.	Mechanical.	Crushing and screening for size reduction.
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	yes proposed.	Drilling and blasting is being carried out as per the proposal.	Using hydraulic drill of 115 mm dia for drilling and Blasting operation is carried out by slurry explosive.
3k	Provision of mining machineries in mineral benches	Yes, proposed combination of Excavators and dumpers in the mineral bench.	Excavators of 2.6 cum and 1.2cum capacity and dumpers of 35 tonnes capacity and tippers of 20 cum capacity were in use.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 8.00 mtr benches.	Maintained bench height 6.00 to 7.00 mtr	Proposed and actual bench height is suitable for the method of mining adopted.
3m	Total area covered under excavation/pits	53.54Ha in the present plan period up to 2023-24.	46.10Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.04	1:0	No OB has been proposed and handled in the present plan period. In the approved document stripping ration is given for ore to topsoil.

3o	Total area put in use under different heads at the end of year	Area under pits 53.54Ha, Storage of topsoil 0.60Ha, Mineral storage- 2.32Ha, Infrastructure -1.41Ha, bunds and waste dumps:-9.65Ha.	Area under mining:- 46.10ha, Infrastructure:-5.89Ha, Dumps (waste dump+ mineral dum+ topsoi):- 12.57Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2022-23 9,99,998T 2021-22 9,99,970T 2020-21 9,99,970T 2019-20 9,99,970T 2018-19 9,99,828T	2022-23 5,33,745T 2021-22 4,02,000T 2020-21 2,90,000T 2019-20 4,00,500T 2018-19 6,40,350T	In the present plan period production acheived is only 40.65% up to Feb 2023(from 2019-20 to 2022-23). Based on the office records RCOM has issued violation letter for deviation in production under Rule ii(1) of MCDR 2017. So no fresh violation is pointed out for the same.
3q	General remarks of inspecting officers on method of mining etc.		Method of mining adopted is Fully machanized with heavy machinaries. Lessee is using combination of excavator and dumper of 35 tonnes capacity for development. The bench parameters were maintained suitable to method of mining adopted. The production is achieved only 40% in the present plan period and violation is pointed out for the same under Rule 11(1) of MCDR 2017.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	None	None.	One dump of slab quarry waste is existing in the block No-4 near Northern boundary. The said dump was made by the operators of slab quarry mine which is existing adjacent to the lease area.
4b	Location of topsoil, OB and mineral reject dumps	None.	None.	One dump of slab quarry waste is existing in the block No-4 near Northern boundary. The said dump was made by the operators of slab quarry mine which is existing adjacent to the lease area.
4c	Number of dumps within lease area and outside of lease area	None in present plan period	None in present plan period.	However, one quarry slab waste dump is existing within the lease area and many quarry slab waste dumps are existing outside the lease area. the dumps were made by the slab quarry operators.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None.	None.	One quarry slab dump is existing outside the UPL.
4e	Number of active and alive dumps.	None.	None.	
4f	Number of dead dumps.	None.	None.	
4g	Number of dumps established.	None.	None.	
4h	Whether Retaining wall or garland drain all along dumps are there.	None.	None.	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable.	Not applicable.	

4j	Number of settling ponds	None.	None.
4k	Specific comments of inspecting officer on waste dump management		No wasting dumpimng was proposed and made in the present plan period. The topoil generated was utilized for making bund in the 7.5 mtr safety zone for plantation purpose. Further, one slab quarry waste dump is existing within the lease area and many slab quarry waste dumps were observed outside the lease area also. The said slab quarry waste dump was made by the operators of slab quarry pit. Same is communicated to State Government for further necessary action.

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 backfilling is proposed in the present plan period.	No backfilling is made in the present plan period.	Mineral is not extracted up to the proved depth, so, no backfilling was proposed and made in the present plan period.
5b	Area under backfilling of mined out area	None.	None.	No area is matured for backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None.	None.	
5d	Total area fully reclaimed and rehabilitated	None.	None.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mineral is not extracted upto the proved depth and no area is matured for backfilling, so no backfilling was proposed and made in the present plan period.	

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).	Before 1st july of every year.	Lessee has submitted PMCP report for the year 2021-22.	Submitted PMCP report for the year 2021-22, within the time limit.
6b	Area available for rehabilitation (ha) .	None.	None.	
6c	afforestation done (ha).	1.20Ha in the year 2022-23.	1.3Ha in theyear 2022-23.	
6d	No. of saplings planted during the year	1000 saplings in the year 2022-23.	1000 saplings.	
6e	Cumulative no .of plants	5000 saplings in the present plan period.	8520 saplings were planted in the present plan period.	Total plantation made so far is 25958.
6f	Any other method of rehabilitation	None.	None.	None.
6g	Cost incurred on watch and care during the year	None.	approximately Rs 1,20,000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None.	None.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None.	None.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	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	Plantation was proposed in the 7.5 mtr safety zone.	Plantation made in the 7.5 mtr safety zone.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None.	None.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None.	None.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed regular monitoring of Air, water and noise in the core and buffer zone.	Proposed regular monitoring of Air, water and noise in the core and buffer zone.	Environmental monitoring was carried out by B.S.Envi-Tech Pvt.Ltd., Secunderabad.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Lessee has made total 8520 plantation in the present plan period and 25958 cumulatively so far. Lessee is regularly monitoring Air and water and results are within permissible limit. Submitted yearly report on PMCP for the year 2021-22.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed dispatch of Cement grade ore.	Dispatched cement grade ore to captive plant.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Cement Grade.	Cement Grade	
7d	Any beneficiation process at mines	None.	None.	None.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is using entire ROM by blending lowgrade with the high grade as per the requirement of the plant.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposed.	Topsoil is removed separately.	The topsoil removed is utilized for plantation work in the 7.5 mtr safety zone.
8b	Concurrent use or storage of topsoil	Concurrent use.	Concurrent use.	Topsoil removed is utilized for plantation work in the 7.5mtr safety zone.
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)		Yes, information was given in the approved mining plan. Additionally lessee has planted 25958 saplings within the lease area.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	A monthly returns shall be submitted before 10 th day of every month in respect of preceding month and an annual returns shall be submitted before 1st day of July of each year for the preceding financial year.	Lessee is regularly submitting monthly and annual returns within the time limit.	Submitted Monthly returns up to Feb 2023 and annual returns 2021-22.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	In the annual returns submitted for the year 2021-22 details are furnished as follows. Mining Engineer & Manager :- Shri L.Somasekhara Reddy. Geologist: B.Ravi.	The details furnished in the annual returns is found correct.	The said mining engineer and geologist were accompanied during inspection.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining:- 46.10Ha, Infrastructure :- 5.890Ha, Other(bunds, waste dump, etc.):- 12.57Ha.	The information furnished in the annual returns is found correct.	
9d	Scrutiny of Annual return on afforestation	2000 saplings in the year 2021-22	The information furnished is found correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None.	None.	Entire ROM is utilized by blending.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening and closing stock: Nil and production:- 402000 tonnes., cement Grade:- Opening and closing stock:- 29500 tonnes , production and dispatch:- 402000 tonnes.	The details furnished in the annual returns is found correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production and ex-mine price:- Rs 230.77	As per the returns tax were paid in the year 2021-22, however under cost of production taxes is shown as zero.	Showcause notice is issued for the same under Rule 45(7) of MCDR 2017.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset is shown as Rs 55910169. in the Annual returns submitted for the year 2021-22.	In annual returns submitted for the year 2020-21 net closing balance for Industrial & plant and machinery is mentioned as Rs 62980123 and 38224532 respectively. However, in the annual returns submitted for the year 2021-22 value at the beginning of the year for the same is mentioned as Rs 5626057& 10851885 respectively. The details of closing and opening balace are not given properly.	Showcause notice is issued for the same under Rule 45(7) of MCDR 2017.

9k Scrutiny of Bach hoe 2.6 The information
Annual return on cum-01, Shovel furnished in the annual
mining of 1.20cum:- returns is found
machineries 01, Tippers: correct.
 02, Dumpers of
 35 :02.

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

Date :

(kalmata.M.K)

Indian Bureau of Mines