

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/NLG/LST-1/HYD

Mine code : 38APR14011

- (i) Name of the Inspecting : K007) SHAIVAL KARTIKEYA
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri M. Laxmana Kranthi Kumar, Manager (Mines)
Official with
Designation
- (iv) Date of Inspection : 26-JUL-22
- (v) Prev.inspection date : 09-DEC-21

PART-I : GENERAL INFORMATION

1. (a) Mine Name : VISHNUPURAM-I (G.O.NO.131)
- (b) Registration NO. : IBM/613/2011
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : TELANGANA
District : NALGONDA
Village : WADAPALLY
Taluka : MIRYALAGUDA
Post office : WADAPALLY
Pin Code : 508355
FAX No. : 08689-228447
E-mail : vpm_mines@indiacements.co..
Phone : 08689-228580
- (f) Police Station : WADAPALLY
- (g) First opening date : 16-JAN-91
- (h) Weekly day of rest : SUN
2. Address for : M/s India Cements Limited, Vishnupuram
correspondance : WADAPALLY
NALGONDA DISTRICT-508355
3. (a) Lease Number : APR0066
- (b) Lease area : ~~513.68~~ 316.47 Ha.
- (c) Period of lease : 52 years (Section 8A of MMDR Amendment Act, 2015)
- (d) Date of Expiry : 31/03/2030
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 : M.Tirupati Rao
Visshnupuram works, ICL
Wadapally PO Damarcherla
mandal NALGONDA TELANGANA
Phone: 08689228580
FAX : 0868/9228447

Mining Engineer

Name : P.Bheem Raj., Full Time
Qualification : B.Tech(Mining)
Appointment/ : 01-MAR-18
Termination date

Geologist

Name : K Srinivas, Full Time
Qualification : Msc geology
Appointment/ : 01-JUL-16
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	30-JUN-98
		Mining Scheme rule 12 MCDR1988	28-DEC-01
		Modif.approved Mining Scheme	30-SEP-04
		Mining Scheme rule 12 MCDR1988	16-OCT-06
		Renewal under rule 24 MCR1960	04-AUG-10
		MP modif under MCR 1960	08-MAR-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal.	NIL	The entire mineralized zone has already been explored under G1 level.
1b	Exploration over lease area for geological axis 1 or 2	No Proposal.	NIL	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal.	NIL	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal.	NIL	-do-
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2022 Under (111): 23.42 Million Tonnes	Balance reserves as on 01.04.2022 Under (111): 24.93 Million Tonnes	Average grade of Limestone: CaO: 45.62% SiO2: 13.23%

1f	General remarks of inspecting officers on geology, exploration etc	The lease area located in the North-Eastern margins of the Kadapa Basin is known as Palnad sub-basin. The geological formation of the area comprises of a sequence of arenaceous, argillaceous and calcareous rocks belonging to the Kurnool group of rocks. Kurnool group of rocks are the youngest rocks in the Kadapa Basin.	These younger rocks are developed in Palnadu area stretching on both sides of Krishna River, called as Palnads, resting unconformably on the Kadapa formation. The topography of the lease area is undulating and gently dipping towards E-SE in the direction where river Musi flows in a gorge. The Limestone deposit is a Simple, Tabular, undisturbed stratigraphic horizon of the Palnad sub-basin (Nargi Formation).	No major structural disturbance in the sedimentary units are present.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block A: In between UTM co-ordinates N1847548 to N1847668 and E356476 to E356536 Block D: In between UTM co-ordinates N1847767 to N1848337 and E355444 to E356138	Block D: In between UTM co-ordinates N1847767 to N1848337 and E355444 to E356138	Broadly Development and production has been done in proposed co-ordinates in Block D.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil: 01 no. Mineral: 03 nos.	Topsoil: 01 no. Mineral: 03 nos.	-
2c	Stripping ratio or ore to OB ratio	No Proposal.	NIL, as no overburden/waste rock present within lease area.	Mainly production and development have been done in the existing working pit.
2d	Quantity of topsoil generation in m3	37995.0 CuM	53596.0 CuM	Thickness of the soil is not uniform in the lease area.
2e	Quantity of overburden generation in m3	No Proposal.	NIL, as no overburden present in the lease area.	No OB excavated during F.Y. 2021-22. However, in the online submitted annual return for F.Y. 2021-22 wrongly 75551.00 Metric Tonnes of Mineral-reject has been reported. Violation has been pointed out.
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.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 nos.	01 no.	Mainly development and production has been carried out in Block D.
3b	Quantity of ROM mineral production proposed	1399870.00 Metric Tonnes	584271.00 Metric Tonnes	Less production due to covid 19 pandemic and lack of market demand.
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.	No Proposal.	NIL	-
3f	Quantity of sub grade mineral generation.	No Proposal.	NIL	-
3g	Grade of sub grade mineral generation	No Proposal.	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	Dia: 115 mm Spacing: 5.50 m Burden: 3.50 m Depth: 8.00 m Explosive: ANFO	Dia: 115 mm Spacing: 5.50 m Burden: 3.50 m Depth: 8.00 m Explosive: ANFO	-

3k	Provision of mining machineries in mineral benches	1. Excavator 02 nos. with 1.02 CuM and 2.00 CuM bucket capacity. 2. Tippers 08 nos. with 13.0 CuM carrying capacity. 3. Water Tanker 01 no. with 10000 Liters capacity. 4. Jeep/Tractor 01 no. with 40.00 HP capacity. 5. Air Compressor 01 no. with 12.60 CuM/Mn capacity. 6. Blast Hole Drill 01 no. with 115 mm Bit capacity.	1. Excavator 02 nos. with 1.02 CuM and 2.00 CuM bucket capacity. 2. Tippers 05 nos. with 13.0 CuM carrying capacity. 3. Water Tanker 01 no. with 10000 Liters capacity. 4. Air Compressor 01 no. with 12.60 CuM/Mn capacity. 5. Blast Hole Drill 01 no. with 115 mm Bit capacity. 6. Jeep/Tractor 01 no. with 46.00 HP capacity.	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil: 0.50 to 1.0 m Mineral/Ore: 6.0 m to 8.0 m	Topsoil: 0.50 to 1.0 m Mineral/Ore: 6.0 m to 8.0 m	-
3m	Total area covered under excavation/pits	97.01 Ha. up to end of F.Y. 2024-25.	77.038 Ha. up to end of F.Y. 2021-22.	-
3n	Ore to OB ratio for the pit/mine during the year.	No Proposal.	NIL, as no overburden/waste rock present within lease area.	Mainly production and development have been done in the existing working pit.

3o	Total area put in use under different heads at the end of year	Pit- 97.01 Ha. Waste/reject- 2.64 Ha. Others- 56.71 Ha. Up to end of F.Y. 2024-25	Pit- 77.038 Ha. Waste/reject- NIL Ha. Others- 73.06 Ha. Up to end of F.Y. 2021-22	-
3p	Production of ROM mineral during the last five year period as applicable	Yr. 2017-18: 1400045.00 Metric Tonnes Yr. 2018-19: 1400603.00 Metric Tonnes Yr. 2019-20: 1399716.00 Metric Tonnes Yr. 2020-21: 1399836.00 Metric Tonnes Yr. 2021-22: 1399870.00 Metric Tonnes	Yr. 2017-18: 1022151.00 Metric Tonnes Yr. 2018-19: 1368967.00 Metric Tonnes Yr. 2019-20: 813225.00 Metric Tonnes Yr. 2020-21: 710252.00 Metric Tonnes Yr. 2021-22: 584271.00 Metric Tonnes	-
3q	General remarks of inspecting officers on method of mining etc.			Mining has been carried out through the opencast method with fully mechanized means using conventional drilling and blasting.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	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 location within lease area.	Topsoil has been stacked separately in between UTM co-ordinates N1847073 to N1847268 and E355517 to E355875.	-

4b	Location of topsoil, OB and mineral reject dumps	Topsoil: In between UTM co-ordinates N1847073 to N1847268 and E355517 to E355875	Topsoil: In between UTM co-ordinates N1847073 to N1847268 and E355517 to E355875	-
4c	Number of dumps within lease area and outside of lease area	No Proposal.	NIL	01 topsoil stack is present within lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal.	NIL	01 topsoil stack is present beyond ultimate pit limit.
4e	Number of active and alive dumps.	No Proposal.	NIL	01 no. of topsoil stack.
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			NIL

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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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)	Proposal has been given in the approved document for spreading/reuse of 12995.0 CuM of topsoil for plantation.	Approx 13000.0 CuM of Topsoil has been utilized for plantation purpose over 1.20 Ha. area.	-
5d	Total area fully reclaimed and rehabilitated	No Proposal.	NIL	Cumulative 6.65 Ha area has been converted in to green belt in barrier/statutory zone.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			NIL

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	As per rule 26(2), lessee has to submit the annual report before 1st day of July of every year.	Submitted before due date. Information has been cross verified during inspection.	No major deviation has been observed.
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) 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	1000 nos.	1040 nos.	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.20 Ha.	1.20 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 regular 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	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Proposal.	NIL	Max. 1000 mm size ore is being dispatched to the feed hopper for further sizing.

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	Average grade of Limestone: CaO: 45.62% SiO2: 13.23%
7d	Any beneficiation process at mines	No Proposal.	NIL	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			NIL

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	F.Y. 2021-22: 37995.0 CuM of Topsoil will be generated and 12995.0 CuM of Topsoil will be utilized for plantation over 1.20 Ha. area.	F.Y. 2021-22: 53965.0 CuM of Topsoil has been generated and approx 13000.0 CuM of Topsoil has been utilized for plantation over 1.20 Ha. area.	-

8b	Concurrent use or storage of topsoil	37995.0 CuM of Topsoil will be stacked in between UTM co-ordinates N1847073 to N1847268 and E355517 to E355875 and 12995.0 CuM of Topsoil will be utilized for plantation over 1.20 Ha. area.	53965.0 CuM of Topsoil has been stacked in between UTM co-ordinates N1847073 to N1847268 and E355517 to E355875 and approx 13000.0 CuM of Topsoil has been utilized for plantation over 1.20 Ha. area.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate stacking of 37995.0 CuM of Topsoil will be done In between UTM co-ordinates N1847073 to N1847268 and E355517 to E355875.	Separate stacking 53965.0 CuM of of Topsoil has be done In between UTM co-ordinates N1847073 to N1847268 and E355517 to E355875.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	12995.0 CuM of Topsoil will be utilized for plantation over 1.20 Ha. area.	Approx 13000.0 CuM of Topsoil has been utilized for plantation over 1.20 Ha. area.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-do-	-do-	Cumulative 6.65 Ha area has been converted in to green belt in barrier/statutory zone.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 nos. of sapling will be planted over an area of 1.20 Ha.	1040 nos. of saplings has been planted over an area of 1.20 Ha.	-

8g	Survival rate	95%	Approx 95%	-
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 June 2022 A.R. Submitted up to F.Y. 2021-22	M.R. Submitted up to June 2022 A.R. Submitted up to F.Y. 2021-22	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri M. Laxmana Kranthi Kumar Mining Engineer: Shri M. Laxmana Kranthi Kumar Geologist: Shri K. Srinivas	Manager: Shri M. Laxmana Kranthi Kumar Mining Engineer: Shri M. Laxmana Kranthi Kumar Geologist: Shri K. Srinivas	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 77.038 Ha. Waste/reject- NIL Ha. Others- 73.06 Ha.	Pit- 77.038 Ha. Waste/reject- NIL Ha. Others- 73.06 Ha.	NIL

9d	Scrutiny of Annual return on afforestation	Within Lease area: 1040 nos. with 95% survival rate. Outside Lease area: NIL	Within Lease area: 1040 nos. with approx 95% survival rate. Outside Lease area: NIL	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral-reject: NIL Grade: NIL	Mineral-reject: NIL Grade: NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock ROM: NIL Graded Ore: Cement Grade Limestone: 22640.00 Metric Tonne	Closing Stock ROM: NIL Graded Ore: Cement Grade Limestone: 22640.00 Metric Tonne	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value: NIL Ex-mine Price: Rs. 196.62 Per Metric Tonne Cost of Production: Rs. 196.62 Per Metric Tonne	Sale Value: NIL Ex-mine Price: Rs. 196.62 Per Metric Tonne Cost of Production: Rs. 196.62 Per Metric Tonne	NIL
9h	Scrutiny of Annual return on fixed assets	Rs. 3248514904.00	Rs. 3248514904.00	Common for all three leases i.e. 38APR14011, 38APR14026 and 38APR14029

9k	Scrutiny of Annual return on mining machineries	1. Excavator 02 nos. with 1.02 CuM and 2.00 CuM bucket capacity. 2. Tippers 05 nos. with 13.0 CuM carrying capacity. 3. Water Tanker 01 no. with 10000 Liters capacity. 4. Air Compressor 01 no. with 12.60 CuM/Mn capacity. 5. Blast Hole Drill 01 no. with 115 mm Bit capacity. 6. Jeep/Tractor 01 no. with 46.00 HP capacity.	Cross verified from the field logbooks.	NIL
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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 33	05-AUG-22				

Date : 10/08/2022


 (SHAIVAL KARTIKEYA) 10/08/2022

Indian Bureau of Mines