

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/GNR/LST-24/HYD

Mine code : 38APR07026

- (i) Name of the Inspecting : K007) SHAIVAL KARTIKEYA
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Y. Saidulum Manager (Mines)
Official with
Designation
- (iv) Date of Inspection : 28-JUL-22
- (v) Prev.inspection date : 08-DEC-21

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KRISHNAPURAM (GO.469)
- (b) Registration NO. : IBM/613/2011
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ANDHRA PRADESH
District : GUNTUR
Village : PONDUGALA
Taluka : PIDUGURALLA
Post office : PONDUGALA
Pin Code : 522414
FAX No. : 08689-28447
E-mail : iclvpm@rediffmail.com
Phone : 08689-28447
- (f) Police Station : DACHEPALLY
- (g) First opening date : 09-MAR-88
- (h) Weekly day of rest : SUN
2. Address for
correspondance : THE INDIA CEMENTS LTD, VISHNUPURAM-WADAPALLY (PO)
MIRYALAGUDA TQ
NALGONDA DIST.
3. (a) Lease Number : APR0205
- (b) Lease area : 652.92
- (c) Period of lease : 20
- (d) Date of Expiry : 03-APR-07
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 : M.Manickam
Coromandel Towers, 93
Santhome High Road,
Karpagam Avenue, Raja
Annamal aipuram, CHENNAI
CITY TAMIL NADU
Phone: 044-28521526
FAX : 044-28520638

Agent : M.Tirupati Rao
Visshnupuram works, ICL
Wadapally PO Damarcherla
mandal NALGONDA TELANGANA
Phone: 08689228580
FAX : 0868/9228447

Mining Engineer

Name : CH.SRINIVAS, Full Time
Qualification : BE (MINING)
Appointment/ : 01-JAN-07
Termination date

Geologist

Name : K.SRINIVAS, Full Time
Qualification : M.Sc(Tech)
Appointment/ : 25-JUN-13
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	09-MAY-02
Plan/Scheme of Mining		Modif.approved Mining Scheme	20-SEP-04
		Modif.approved Mining Scheme	04-OCT-05
		Renewal under rule 22 MCR1960	02-APR-07
		Mining Scheme rule 12 MCDR1988	30-NOV-12
		Mining Scheme rule 12 MCDR1988	20-JAN-17
		MP review under 17(1) MCR 2016	06-JAN-22

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal.	F.Y. 2021-22: 41 nos. of core boreholes with cumulative depth of 2988.50 meters have been drilled.	Detailed exploration (G1 Level) over 58.75 Ha. potentially mineralized area has not been carried out within five years from the date of commencement of MCDR, 2017. Violation has been pointed out.
1b	Exploration over lease area for geological axis 1 or 2	No Proposal.	101.02 Ha. G2 area has been converted into G1 level of exploration.	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal.	M/s Natural Resource Development Co-operative Society Limited, Hyderabad Expenditure: Rs. 47.20 Lakhs.	-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) Category: 487.749 Million Tonnes Under (122) Category: 65.187 Million Tonnes.	Balance reserves as on 01.04.2022 Under (111) Category: 487.749 Million Tonnes Under (122): 65.187 Million Tonnes.	Updated reserves have been obtained from the latest approved Review of Mining Plan dated 06/01/2022. Average grade of Limestone: CaO: 46.14% SiO2: 12.75%

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 Kapdapa 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	North Block: In between local co-ordinates N7180 to N7900 and E4495 to E5155	North Block: In between local co-ordinates N7180 to N7900 and E4495 to E5155	Broadly development and production have been carried out in the proposed co-ordinates.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil: 01 no. Mineral/Ore: 06 nos.	Topsoil: 01 no. Mineral/Ore: 06 nos.	-
2c	Stripping ratio or ore to OB ratio	No Proposal.	NIL	-
2d	Quantity of topsoil generation in m3	No Proposal.	6670.0 CuM	-

2e	Quantity of overburden generation in m3	No Proposal.	NIL	No OB excavated during F.Y. 2021-22. However, in the online submitted annual return for F.Y. 2021-22 wrongly 9338 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	01 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	1399958.00 Metric Tonnes	655522.00 Metric Tonnes	-
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	-

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|----|---|--|--|---|
| 3h | Manual /
Mechanised
method adopted
for segregating
from ROM | Mechanised
crushing for
fraction size
of -1000 mm
nto +20 mm has
been proposed
with the rated
capacity of
crusher plant
of 500 Tonnes
Per Annum. | Mechanised crushing is
being done for fraction
size of -1000 mm to +20
mm through through 500
TPH crushing unit. | - |
| 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: 7.70 m
Explosive:
ANFO | Dia: 115 mm
Spacing: 5.50 m
Burden: 3.50 m
Depth: 7.70 m
Explosive: ANFO | - |

3k	Provision of mining machineries in mineral benches	1. Hydraulic Excavator 04 nos. with 1.9 CuM (01 no.) and 2.0 CuM (03 nos.) bucket capacity. 2. Tippers 20 nos. with 17 Tonnes capacity. 3. Drilling Machine 01 no. with bit diameter 115.0 mm. 4. Compressor 01 no. with 180 HP/450 CFM capacity. 5. Explosive Van 01 no. with 9.0 Tonnes capacity. 6. Water Tanker 01 no. with 10 KL capacity. 7. Hydraulic Rock Breaker 01 no.	1. Back Hoe 03 nos. with 2.0 CuM (02 nos.) and 2.5 CuM (01 no.) bucket capacity 2. Tippers 13 nos. with 13.0 CuM carrying capacity. 3. Water Tanker 01 no. with 12000 Liters capacity. 4. Air Compressor 01 no. with 12.60 CuM/MN capacity 5. Drilling Machine 01 no. with bit diameter 115.0 mm 6. Jeep/Tractor 01 no.	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil: 0.50 m to 1.0 m Mineral/Ore: 3.0 m to 8.0 m	Topsoil: 0.50 m to 1.0 m Mineral/Ore: 3.0 m to 8.0 m	-
3m	Total area covered under excavation/pits	50.41 Ha. up to end of F.Y. 2021-22.	42.54 Ha. up to end of F.Y. 2021-22.	-
3n	Ore to OB ratio for the pit/mine during the year.	No Proposal.	NIL	-

3o	Total area put in use under different heads at the end of year	Pit- 50.41 Ha. Waste/reject- NIL Others- 1.22 Ha. Up to end of F.Y. 2021-22	Pit- 42.540 Ha. Waste/reject- NIL Others- 2.27 Ha. Up to end of F.Y. 2021-22	Excess area has been utilized. Revised Bank Guarantee for 57.0 Ha. has been submitted along with the latest approved Review of Mining Plan dated 06/01/2022.
3p	Production of ROM mineral during the last five year period as applicable	Yr. 2017-18: 1399709.00 Metric Tonnes Yr. 2018-19: 1399521.00 Metric Tonnes Yr. 2019-20: 1399921.00 Metric Tonnes Yr. 2020-21: 1399970.00 Metric Tonnes Yr. 2021-22: 1399958.00 Metric Tonnes	Yr. 2017-18: 809722.00 Metric Tonnes Yr. 2018-19: 1334667.00 Metric Tonnes Yr. 2019-20: 1040412.00 Metric Tonnes Yr. 2020-21: 648351.00 Metric Tonnes Yr. 2021-22: 655522.00 Metric Tonnes	Less production due to less market demand.
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)	No Proposal.	6670.0 CuM generated Topsoil has been stacked over 1.20 Ha. in between local co-ordinates N4945 to N5127 and E6988 to E7145 at the statutory barriers.	-

4b	Location of topsoil, OB and mineral reject dumps	No Proposal.	-do-	-
4c	Number of dumps within lease area and outside of lease area	No Proposal.	-do-	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal.	6670.0 CuM generated Topsoil has been stacked beyond ultimate pit limit.	-
4e	Number of active and alive dumps.	No Proposal.	NIL	-
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	Proposals	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)	No Proposal.	6670.0 CuM generated Topsoil has been utilized for plantation over 1.20 Ha. area in between local co-ordinates N4945 to N5127 and E6988 to E7145 at the statutory barriers.	-
5d	Total area fully reclaimed and rehabilitated	No Proposal.	1.20 Ha. statutory zone has been rehabilitated 1000 nos. of saplings.	Cumulative 6.0 Ha. statutory zone has been converted as green belt with 5000 nos. of saplings.
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).	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.	1000 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	-
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			Chemical specification of Limestone required in the captive cement plant: CaO- 43.00% to 44.00% and SiO ₂ - 13.00% to 14.00% Average grade of Limestone present in the mine: CaO- 46.14% and SiO ₂ - 12.75%

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal.	During F.Y. 2021-22 6670.0 CuM of Topsoil has been generated and utilized for plantation over 1.20 Ha. area in between local co-ordinates N4945 to N5127 and E6988 to E7145 at the statutory barriers.	-
8b	Concurrent use or storage of topsoil	No Proposal.	-do-	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal.	-do-	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal.	-do-	-

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal.	-do-	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 nos. of saplings will be planted over 1.20 Ha. area.	1000 nos. of saplings have been planted over 1.20 Ha. area.	Cumulative 6.0 Ha. statutory zone has been converted as green belt with 5000 nos. of saplings.
8g	Survival rate	Not mentioned in the approved document.	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	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to July 2022 A.R. Submitted up to F.Y. 2021-22	M.R. Submitted up to July 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 Y. Saidulu Mining Engineer: Shri Y. Saidulu Geologist: Shri M. Dheivendiran	Manager: Shri Y. Saidulu Mining Engineer: Shri Y. Saidulu Geologist: Shri M. Dheivendiran	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 42.540 Ha. Waste/reject- NIL Others- 2.27 Ha.	Pit- 42.540 Ha. Waste/reject- NIL Others- 2.27 Ha.	Excess area has been utilized. Revised Bank Guarantee for 57.0 Ha. has been submitted along with the latest approved Review of Mining Plan dated 06/01/2022.
9d	Scrutiny of Annual return on afforestation	Within Lease area: 1000 nos. with 95% survival rate. Outside Lease area: NIL	Within Lease area: 750 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: 45661.00 Metric Tonne	Closing Stock ROM: NIL Graded Ore: Cement Grade Limestone: 45661.00 Metric Tonne	NIL

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine Price: Rs. 221.84 Per Metric Tonne Cost of Production: Rs. 221.84 Per Metric Tonne	Ex-mine Price: Rs. 221.84 Per Metric Tonne Cost of Production: Rs. 221.84 Per Metric Tonne	Transportation cost from the mining lease up to the captive plant has been added in the Ex-Mine Price and the Cost of Production. Violation has been pointed out.
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. Back Hoe 03 nos. with 2.0 CuM (02 nos.) and 2.5 CuM (01 no.) bucket capacity 2. Tippers 13 nos. with 13.0 CuM carrying capacity. 3. Water Tanker 01 no. with 12000 Liters capacity. 4. Air Compressor 01 no. with 12.60 CuM/MN capacity 5. Drilling Machine 01 no. with bit diameter 115.0 mm 6. Jeep/Tractor 01 no.	Cross verified from the field logbooks.	NIL

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 : 11/08/2022

शैवाल कार्तिकेय
(SHAIVAL KARTIKEYA) 11/08/2022

Indian Bureau of Mines

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