

**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 : **DP09**) **D.P.Ravi kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : S/Shri Y. Saidulu, Mining Engineer and Narendra Praka
Official with
Designation
- (iv) Date of Inspection : 18/06/2024
- (v) Prev.inspection date : 14/07/2018

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 : 09/03/1988
- (h) Weekly day of rest : SUN
2. Address for : THE INDIA CEMENTS LTD, VISHNUPURAM-WADAPALLY(PO)
correspondance MIRYALAGUDA TQ
NALGONDA DIST.
3. (a) Lease Number : APR0205
- (b) Lease area : 652.92
- (c) Period of lease : 20
- (d) Date of Expiry : 03/04/2007
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/ : 01/01/2007
 Termination date

Geologist

Name : K.SRINIVAS,Full Time
 Qualification : M.Sc(Tech)
 Appointment/ : 25/06/2013
 Termination date

| | | | |
|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 09/05/2002 |
| Plan/Scheme of Mining | | Modif.approved Mining Scheme | 20/09/2004 |
| | | Modif.approved Mining Scheme | 04/10/2005 |
| | | Renewal under rule 22 MCR1960 | 02/04/2007 |
| | | Mining Scheme rule 12 MCDR1988 | 30/11/2012 |
| | | Mining Scheme rule 12 MCDR1988 | 20/01/2017 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---|---|---|
| 1a | Backlog of previous year | 23 Boreholes | During the year 23 Boreholes were carried out with a total meterage of 2591 meters. | No comments to offer. |
| 1b | Exploration over lease area for geological axis 1 or 2 | During the year 23 bore holes were drilled.The entire potentially mineralised area was covered under G1 scale | During the year 23 bore holes were drilled.The entire potentially mineralised area was covered under G1 scale | Nil |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | No proposal. | The exploration was carried out by M/s Natural Resources Development society Limited(NRDCS),Hyderabad | Nil |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | No proposal | The entire potentially mineralised area is covered under G1 scale of exploration. | No comments to offer.Till date the lessee has drilled about 325 bore holes coverig the entire potentially mineralised area under G1 scale. |
| 1e | Balance reserve as on 01/04/20 | | The reserves as 1.4.2024 are 551.673 million tonnes | No deviation. |
| 1f | General remarks of inspecting officers on geology, exploration etc | | The lessee has carried out exploration over entire potentially mineralised area under G1 scale. | The lessee has complied with the provisions of MCDR,2017 pertaining to drilling/explorati on.The Limestone deposit of the Mining lease falls under the Palnadu basin which is equivalent of Narji formation of Kurnool basin. |

Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|--|
| 2a | Location of development w.r.t.lease area | It was proposed to carry out the excavation of limestone at coordinates N 1843083 -N 1843630 | The excavation of the limestone is being done from the site as proposed. | No deviation. |
| | | E 358046.4 - E 358515.2 | | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Seperate benches in Topsoil and Limestone proposed. | One bvench in topsoil and four benches in mineral were observed during the inspection. | No deviation noticed. |
| 2c | Stripping ratio or ore to OB ratio | As there is no OB,no stripping ratio calculated | None | None |
| 2d | Quantity of topsoil generation in m3 | 7200 cu.m | 12527 cu.m | Nil |
| 2e | Quantity of overburden generation in m3 | None | None | Nil |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | The development is being done as proposed. | The development is being done as proposed. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---------------------------------------|-----------|-------------|---------|
| 3a | Number of pit proposed for production | One | One | Nil |

| | | | | |
|----|---|---|---|---|
| 3b | Quantity of ROM mineral production proposed | 1400000 t | 709122 t | As the production is lesser side , a violation letter issued to the lessee. |
| 3c | Recovery of sailable/usable mineral from ROM production | It was proposed to use the entire ROM for the cement plant. | Same was noticed duirng the inspection. | No deviation. |
| 3d | Quantity of mineral reject generation | Nil | Nil | Nil |
| 3e | Grade of mineral rejects generation and threshold value declared. | Nil | Nil | Nil |
| 3f | Quantity of sub grade mineral generation. | Nil | Nil | Nil |
| 3g | Grade of sub grade mineral generation | Nil | Nil | Nil |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Nil | Nil | Nil |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Nil | Nil | Nil |
| 3j | Provision of drilling and blasting in mineral benches | It was proposed to carry out drilling by 115 mm dia and blasting by ANFO. | Same was noticed duirng the inspection. | No deviation. |

| | | | | |
|----|--|---|--|---|
| 3k | Provision of mining machineries in mineral benches | It was proposed to use Back hoe and tippers for excavating the mineral and transporting the same. | same was noticed during the inspection. | Nil |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | It was proposed to maintain a height of 7 meters | Same was observed during the inspection. | No deviation. |
| 3m | Total area covered under excavation/pits | 48.24 ha | 44.43 ha | The deviation is due to less development/production. |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.01 | 1:0.01 | Nil |
| 3o | Total area put in use under different heads at the end of year | Pit - 48.24 ha Others: 1.76 | Pit - 44.43 ha Others: 2.26 ha. | Nil |
| 3p | Production of ROM mineral during the last five year period as applicable | 1) 2019-20: 13,99,911 2) 2020-21: 13,99,970 3) 2021-22: 13,99,958 4) 2022-23 14,00,000 5) 2023-24 14,00,000 t | 1) 2019-20: 10,40,412 t 2) 2020-21: 6,48,351 t 3) 2021-22: 6,55,522 t 4) 2022-23 6,57,022 t 2023-24=709122 t | Due to lesser side production during 2023-24, a violation letter is issued to the lessee. |
| 3q | General remarks of inspecting officers on method of mining etc. | It was proposed by the lessee to produce 1400000 tonnes per year. | The lessee has produced 709122 tonnes during 2023-24. | Due to lesser side production during 2023-24, a violation letter is issued to the lessee. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | It was proposed to utilise the topsoil generated for plantation purpose. | Same was noticed duirng the inspection. | Nil |
| 4b | Location of topsoil, OB and mineral reject dumps | The topsoil generated is being utilised concurretnly for plantation purpose on the western sied of the lease. | same was noticed during the inspection. | No deviation. |
| 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 | No dumps are there within or outside the mining lease as on date of inspection. |
| 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 | | | No OB/waste generation is envisaged. |

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. | There is no proposal for reclamation during the year 2023-24 | No area mature for reclamation purpose during the year 2023-24 | No deviation. |
| 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 | No area matured for reclamation purpose during the year 2023-24. |

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). | Yes | Yes | No deviation. |
| 6b | Area available for rehabilitation (ha) . | No proposals. | Nil | Nil |
| 6c | afforestation done (ha). | 1.20 ha (1000 saplings) | 1.20 ha (1000 saplings) | Nil |
| 6d | No. of saplings planted during the year | 1000 saplings | 1000 saplings | No deviation. |
| 6e | Cumulative no .of plants | 55214 nos. of saplings | 55214 nos. of saplings | No deviation. |

| | | | | |
|----|---|------|--|-----------------------|
| 6f | Any other method of rehabilitation | None | None | None |
| 6g | Cost incurred on watch and care during the year | | It was reported by the lessee that about Rs.2,00,000/- was incurred during the year 2023-24. | No comments to offer. |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x 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 the environmental parameters. | Regular quarterly monitoring of environmental parameters being carried out and the all the parameters are within permissible limits. | No deviation. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | The lessee is implementing all the proposals as made in the approved document related to Progressive Mine closure. | No deviation. |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|-----------------------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | It was proposed that entire mineral produced would be utilised in the cement plant of the lessee. | Same was noticed duirng the inspection. | No deviation noticed. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | There is no proposal for grade-wise sorting. | No such grade wise sorting was noticed. | Nil |
| 7c | Different grade of mineral sorted out at mines. | None | None | None |

| | | | | |
|----|--|---|---|-----------------------|
| 7d | Any beneficiation process at mines . | There is no proposal for any beneficiation at mines. | No beneficiation practice was noticed at the mines. | No deviation noticed. |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | There was no proposal for grade wise sorting or any other type of beneficiation at mines. | No such activities noticed during the inspection. | No deviation noticed. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|------------------------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | It was proposed to remove topsoil and utilise in simultenaously for plantation purpose. | Same was noticed during the inspection. | There is no deviation. |
| 8b | Concurrent use or storage of topsoil | It is proposed to use the topsoil for plantation. | Same was noticed during the inspection | No deviation noticed. |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | As there are no waste dumps, no proposals were made for handling the same. | Not Applicable. | No deviation. |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Not Applicable | Not Applicable | 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) | None | During the inspection it was observed that except for the plantation made by lessee, no other type of vegetation was noticed. | Nil |
| 8g | Survival rate | 95% | 95% | Nil |
| 8h | Water sprinkling on roads to control airborne dust | It was proposed to control dust suppression by way of water sprinkling. | Same was noticed during the inspection | No deviation. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | Lessee is implementing all the measures related to maintaining environmental balance. | The over all aesthetic beauty can be rated as above average. |

Compliance of Rule 45:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|---|---------|
| 9a | Status of submission of Monthly and Annual returns | | Monthly and Annual returns being submitted within the timelines | Nil |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | As per the Annual return 2023-24, Sri Y.Saidulu and Sri Narendra Prakash Nema as Mining Engineer & Geologist | Same was confirmed during the inspection. | Nil |

| | | | | |
|----|---|---|---|-----------------------|
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | As per the annual return 2023-24, the area under pit is 44.430 ha, infrastructure is 1.770 ha, used for any other purpose (mineral storage)=0.320 ha. | The same was confirmed during the inspection. | No comments to offer. |
| 9d | Scrutiny of Annual return on afforestation | As per annual return 2023-24, 1000 nos. of saplings were planted. | Same was noticed during the inspection. | No comments. |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Nil | Nil | Nil |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Nil | None | None |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | The Ex-mine price was reported as rs.232.27 per tonnes | The same was confirmed during the inspection. | No comments to offer. |
| 9h | Scrutiny of Annual return on fixed assets | The fixed assets value reported as per 2023-24 annual return was Rs. 3237901946/- | The same was not scrutinised. | No comments. |

| | | | | |
|----|---|---|--|--------------|
| 9k | Scrutiny of Annual return on mining machineries | The details of Mining machineries reported in the annual return 2021-22 are as follows 1. Back Hoe - 2 no.s 2. Tipper - 13 no.s 3. Water tanker - 1 no. 4. air compressor - 1 no. 5. Blast hole drill - 1 no. 6. Jeep/tractor - 1 no. | Same were confirmed during the inspection. | No comments. |
|----|---|---|--|--------------|

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 |
| MCDR17 | Rule 11(1) | 22/07/2024 | | | |

Date :**(D.P.Ravi kumar)**

Indian Bureau of Mines