

REPORT ON CHECK INSPECTION OF ADANAKURICHI LIMESTONE MINE OF M/S THE INDIA CEMENTS LIMITED, DALAVOI WORKS IN ARIYALUR DISTRICT OF TAMILNADU STATE [PREPARED IN THE FORMAT, PRESCRIBED VIDE CCOM'S LETTER NO. 11013/35/MP/MISC/89-CCOM (Vol. III)]

Name and designation of inspecting officer : G.C.Sethi, RCOM, IBM, Chennai
Date of Inspection : 12.02.2023

1. General information of the mine

(i) Name of the mine : Adanakurichi Limestone Mine [GO.Ms.NO.765]
(ii) Owner : The India Cements Limited
(iii) Nominated owner : Lakshmi Aparna Sreekumar
(iv) Mining Engineer : P.Arunkumar
(v) Agent : T.Balasubramanian
(vi) Mine Manager : G.Balu
(vii) Lease area : 17.58.0 ha
(viii) Location : Alathiyur village, Sendurai taluk, Ariyalur district
(ix) Lease period : 50 years (as per MMDR amendment act)
(x) Date of Expiry : 27.10.2049
(xi) Date of approval of Mining Plan : 30.07.1999
(xii) Date of approval of Review of Mining Plan : ROMP-11.11.2019
(xiii) Period of Mining Plan/ Review of Mining Plan : 2020-21 to 2024-25

(xiv) Production (achieved) : 2021-22
ROM – 56868.58 Ts
LST – 56717.32 Ts

2. Brief description of the mine:

(a) A brief description of the mine covering location, geology, problems associated with mining of the deposit etc.

(1) Location:

Adanakurichi Limestone Mine is located in revenue villages of Adanakurichi and Alathiyur villages, Sendurai taluk and Ariyalur district. The area is accessible through the metal/tar road branching off from Pennadam and it is situated about 7kms. Toposheet Number: 58M/7.

Latitude: 11°22' 16.3'' N to 11°22' 36.4'' N, Longitude: 79°15'02.7'' E to 79°15'25.6'' E.

(2) Geology:

Local Geological Set-up

This area is belonging to the Niniyur stage of the cretaceous system of Trichy area. The local geological section constructed on the basis of exploratory boreholes drilled in the area is as follows:

Lithology :

↑ Overburden Soil
Cuddalore Sandstone
Limestone
Marl / Low-grade Limestone
Limestone
Greenish Clay and Sandstone.

The entire sequence has strike direction of N 25 ° E – S 25 ° W with a gentle south-easterly dip of about 5 to 7° SE.

(3) Problems associated with mining of the deposit etc. ---

(b) Description on deployment of mining machinery

| Sl. No. | Machineries deployed | Capacity | Number of units | In use | Idle | Percentage of utilization | Brief description | Remarks |
|---------|----------------------|------------------|-----------------|--------|------|---------------------------|-------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | Dipper Shovels | --- | ---- | --- | --- | --- | --- | --- |
| 2 | Back Hoes | --- | ---- | --- | --- | --- | --- | --- |
| 3 | Front End Loader | --- | ---- | --- | --- | --- | --- | --- |
| 4 | Water Sprinkler | --- | ---- | --- | --- | --- | | |
| 5 | Tippers | 8 m ³ | 5 | 5 | 0 | 84.30% | | |
| 6 | Drills / Blast Holes | --- | ---- | --- | --- | --- | --- | --- |
| 7 | Bull Dozers | --- | ---- | --- | --- | --- | --- | --- |
| 8 | Motor Graders | --- | ---- | --- | --- | --- | --- | --- |
| 9 | Crushers | --- | ---- | --- | --- | --- | --- | --- |
| 10 | Cranes | --- | ---- | --- | --- | --- | --- | --- |
| 11 | Air Compressor | --- | ---- | --- | --- | --- | --- | --- |
| 12 | Surface Miner | 900 HP | 1 | 1 | 0 | 62.00% | | |

3. Implementation of Mining Plan or Review of Mining Plan:

| Sl.No | Proposal in the approved Mining Plan or Scheme of Mining | Observations regarding implementation of proposals given in approved Mining Plan or Review of Mining Plan. | Remarks/Reason for deviation |
|------------|--|--|------------------------------|
| 1 | 2 | 3 | 4 |
| (1) | CONSERVATION OF MINERALS | | |
| | | Proposal | Actual |
| | | | 2021-22 |
| (a) | Exploration | Nil | Nil |
| (b) | Utilization of sub-grade mineral | Nil | Nil |
| (c) | Any other proposal for monitoring | Nil | Nil |
| (2) | SCIENTIFIC MINING | | |
| (a) | Mine Development and method of mining | 225536 tons | 56717 tons |
| (b) | Handling of Waste/ sub-grade material | 6930 cum | 140 cum |
| (c) | Area reclamation & restoration | 0.10 hect | 0.03 hect |
| (d) | Any other proposal for monitoring | Nil | Nil |

(3) PROTECTION OF ENVIRONMENT

| | | | | |
|-----|------------------|---|---------------------|-----|
| (a) | Afforestation | 300 Nos of Saplings | 300 nos of Saplings | Nil |
| (b) | Quality of air | Monitoring and all values are within the limit. | | Nil |
| (c) | Quality of Water | Monitoring and all values are within the limit. | | Nil |
| (d) | Noise level | Monitoring and all values are within the limit. | | Nil |
| (e) | Vibration | Monitoring and all values are within the limit. | | Nil |

| | | | |
|-----|------------------------------------|-----|-----|
| (f) | Any other proposal for monitoring. | --- | Nil |
|-----|------------------------------------|-----|-----|

4. History of Violations after approval of Mining Plan or Review of Mining Plan:

| SL No. | Date of Inspection | Name of inspecting officer | Violations of MCDR, 2017 observed and pointed out | Rectification of violations | Remarks |
|--------|--------------------|----------------------------|---|-----------------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 01.02.2021 | Matiul Islam | Non Submission of Plan & sections | Complied on 15.04.2021 | |
| 2 | 07.08.2021 | Salil Sandip Kujur | Less Production | Complied on 20.10.2021 | |
| 3 | 09.09.2022 | Matiul Islam | Less Production | Complied on 09.11.2022 | |

5. Socio-Economic Development Plan:

| Sl. No. | Proposed Action Plan towards socio-Economic Development | Expenditure proposed (In Rs. Lakh) | Expenditure Incurred (In Rs. Lakh) | Remarks |
|--------------|---|--------------------------------------|--------------------------------------|---------|
| 1 | 2 | 3 | 4 | 5 |
| (1) | General Development in the area | | | |
| | (i) Housing | --- | --- | |
| | (ii) Water Supply | 0.100 | 0.100 | |
| | (iii) Sanitation | 0.442 | 0.442 | |
| | (iv) Health safety and Medical Facilities | 0.050 | 0.050 | |
| (2) | Education and Training | 0.250 | 0.250 | |
| (3) | Employment to local inhabitants | --- | --- | |
| (4) | Public Transportation and communication | 0.076 | 0.760 | |
| (5) | Recreation and other sports activities | 0.126 | 0.126 | |
| (6) | Expenditure for environment management | --- | --- | |
| (7) | Other | 1.40 | 1.40 | |
| Total | | 2.44 | 2.44 | |

6. Observations/ remarks on the earlier inspection carried out by sub-ordinate officer(s) with specific thrust on systematic and scientific mining, mineral conservation and environmental protection and other sensitive/ important aspects pertaining to the mine area or surroundings (CRZ/ Western Ghats/ Wildlife Sanctuaries etc.):

- 1) Name of inspecting officer: Shri. Matiul Islam, ACOM
- 2) Date and Type of inspection: MCDR & Star Rating Inspection – 09.09.2022
- 3) Observations/ Remarks w.r.t. the inspection carried out by the sub-ordinate officer(s) and shortfalls in the inspection report, if any, thereof: Nil

Name of the Officer: **G.C.Sethi**
Designation: **Regional Controller of Mines**