

REPORT ON CHECK INSPECTION OF Ottakovil Limestone Mine (ML – 13) \

Name and designation of inspecting officer : **Shri V. Jayakrishna Babu**, Controller of Mines
(South Zone)
Date of Inspection : **10.07.2024**

1. General information of the mine :

- i) Name of mine : Ottakovil Limestone Mine (ML – 13)
- ii) Owner : M/s. UltraTech Cement Limited
- iii) Nominated owner : Shri. K.C. Jhanwar
- iv) Mining Engineer : Shri. Saddique Basha
- v) Agent : Shri. Karunakara Rao Karanam
- vi) Mine Manager : Shri. Saddique Basha
- vii) Lease area : 74.38 Ha
- viii) Location : Village: Ottakovil
District: Ariyalur
State : Tamilnadu
- ix) Lease period : 50 Years from 10.01.2017 to 09.01.2067
- x) Date of Expiry : 09.01.2067
- xi) Date of approval of mining plan: 1. TN/ALR/LST/ROMP-1633.MDS, Dated.
06.01.2021 (2021-22 to 2025-26)
2. TN/ALR/LST/MMP-2093.MDS dt.27.03.2023
(2022-23 to 2025-26)
- xii) Date of approval of scheme :
- xiii) Period of Mining Plan/
Scheme of Mining : 2021-22 to 2025-26
- xiv) Production (Year 02 to 03) : 2022-23 - 5582.660 T
2023-24- 156457.4 T
- xv) Mineral rejects generated : -
:
- xvi) Dispatches : **2022-23 - 5582.660 T**
2023-24- 156457.4 T

2. Brief Description of the mine

- a) A brief description of the mine covering location, geology, problems Associated with mining of the deposit etc. may be given.**

The area forms a part of the Ariyalur Group and the limestone bed is referred to as Kallankurichi Formation of the Maastrichtian period. The general trend of the deposit in this part of Lease is Northeast Southwest with gentle dips towards east and Southeast. **Block Cotton Soil:** The soil thickness varies from 1.0 to 2.0m. **Limestone:** The thickness of this horizon is about 5 m. The limestone exposed in the lease area is soft and yellowish- brown in color, medium grain in nature. Based on the quality of the limestone it is divided into two categories i.e. Low-Grade Limestone (+34 to -45% CaO) and Siliceous Limestone (+30 - 34% CaO). **Calcareous Sandstone:** Calcareous sandstone is grey to pale brown to brown, fine grained, poorly sorted sand particles in calcareous matrix. It is semi consolidated to weakly consolidated, friable in nature.

b) Description on deployment of mining machinery given in the following format:

Sl. No	Machineries Deployed	Capacity	No. of units	In use	Ideal	Percentage of utilization	Brief Description	Remarks
1	2	3	4	5	6	7	8	9
1	Back-Hoe	1.8 Cu.M	-	2	-	90	-	Machineries deployed within the proposed numbers.
2	Dozer	155 HP	-	1	-	90	-	
3	Tipper	11.36 Cu.M	-	8	-	90	-	
4	Rock Breaker	280 HP	-	1	-	90	-	
5	Water Tanker	5000 Ltr	-	1	-	100	-	

3. Implementation of Mining Plan or Scheme of Mining:

Sl. No	Proposal in the approved Mining Plan or Scheme of Mining (period from 2023 to 2024)	Observations regarding implementation of proposals given in approved Mining Plan or Scheme of Mining	Remarks
1	CONSERVATION OF MINERALS		
a)	Exploration: Nil	Nil	The entire lease area is explored in G1 level of exploration.
b)	Utilisation of sub-grade mineral: NA	NA	The entire ROM is utilized and no sub-grade generation.
c)	Any other proposal for monitoring – Periodical Environment Monitoring	Periodical Environment Monitoring has been carried out regularly and maintaining the report.	Verified during inspection for regular monitoring.
2	SCIENTIFIC MINING		
a)	Mine Development and method of mining- Production: 175155 T	Method of Mining is opencast mining with Combination of loaders and tippers & HEMM without deep hole drilling 156457.4 T	Working within the proposed grid intervals.

b)	Handling of Waste/ subgrade material - OB-77568.89 T Top Soil – 78694 T	OB- 48329T Top Soil – 78494 T	
c)	Area reclamation & rehabilitation: Nil	Nil	
3 PROTECTION OF ENVIRONMENT			
a)	Afforestation: Area – 1.45 Ha Nos - 3000	Achieved Area – 1.45 Ha Nos - 3000	--
b)	Quality of air –	Within the permissible Limit	--
c)	Quality of water –	Within the permissible Limit	--
d)	Noise level –	Within the permissible Limit	--
e)	Vibration –.NA	NA	--
f)	Any other proposal for monitoring	Nil	--

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

Sl. No	Date of inspection	Name of inspecting officer	Violations of MCDR, 2017 observed and pointed out	Rectification of violations	Remarks
1	04.08.2021	Shri. D. Chandrasekar Reddy	Rule No. 11(1) & 45 (7)	Compliance submitted on 06.10.2021	
2	23.12.2023	Shri. G. Sornadurai Kannan	Rule No. 11(1)	Compliance Submitted on 02.02.2024	

5. Socio-Economic Development Plan:

Sl. No.	Proposed Action Plan towards socio Economic Development	Expenditure proposed (In Rs, Lakh)	Expenditure incurred in (in Rs, Lakh)	Remarks
1	General Development in the area	-	-	
	i) Housing	Nil	Nil	
	ii) Water Supply	0.13	0.145	Management reported for Providing water facilities through water cooler for 5 schools
	iii) Sanitation	1.55	1.56	Management reported Construction of new toilet and

				Renovation of existing toilet at Panchayat Union Elementary School at Poyyathanallur village
	iv Health, Safety and Medical Facilities	0.53	0.56	Management reported Purchase dustbins for CSR/Mines operational villages. Health Camp arranged for local villagers
2	Education and Training	3.07	3.13	Management reported the following:- 1. Provided Infrastructure Support (Mesh Work) to Anganwadi building at O Koothur village. 2. Distributed Benches and Desks for PUM schools at Poyyathanallur village. 3. Distributed school bags to the girl's students of Kasturba Gandhi Balika Vidyalaya (KGBV) School, Karuppur 4. Providing educational support for poor student's education. 5. Provided Stationary items for poor students through VCK. 6. Conducted Career Counselling Event / Interaction on understanding aspirations of Students of Government High Schools at Ariyalur District.
3	Employment to local inhabitants	14.00	14.50	1. Garden labor, tipper driver, HEMM operators, etc. have employed from nearby villages.
4	Public Transportation and communication	0.03	0.05	1. Provided printer cum xerox machine pertaining to Road safety activities
5	Recreation and other sports activities	1.04	1.05	1. Financial contribution to Forest Department for Karaivetti Bird Sanctuary. 2. Contribution to District Administration to organize Conduct Book Fair 2023 Ariyalur. 3. Provided T-shirts to the volunteers of Forest Department
6	Expenditure for environment management	12.80 spent towards greenbelt development & other environment protection activities.		

7	Other	0.35	0.37	1. Provided 6 ceiling fans, mattress, food and other items for Santham Old Age Home, Ariyalur during Founder's Day Celebration. 2. Provided support materials for the Victims of Chennai Flood
8	Total	33.50	34.165	

Sd/-
(V. J. K. Babu)
Controller of Mines (South Zone)
Indian Bureau of Mines, Bengaluru.