

REPORT ON CHECK INSPECTION OF PUDUPALAYAM NORTH LIMESTONE MINE OF M/s. The RAMCO CEMENTS LIMITED, GOVINDAPURAM WORKS IN ARIYALUR DISTRICT OF TAMILNAD 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 : **Shri.G.C.SETHI, Regional Controller of Mines**
Date of Inspection : 13/02/2023

1. General information of the mine :

(i) Name of the mine : Pudupalayam North Limestone Mine (38TMN38010)
(ii) Owner : Shri.P.R. Venketrama Raja,
(iii) Nominated owner : -
(iv) Mining Engineer : Shri.E.Thangakumar
(v) Agent : Shri. Madhusudan Kulkarni
(vi) Mine Manager : Shri. A.Rambabu,
(vii) Lease area : 26.07.5 Hectares
(viii) Location : Pudupalayam & Periyagalur Villages,
Ariyalur Taluk & District
(ix) Lease period : 20 years
(x) Date of Expiry : 23.03.2029
(xi) Date of approval of Mining Plan : Mining plan vide letter no. TN/PBR/MP/LST-1653-SZ
dated 07.08.2006
(xii) Date of approval of Review of Mining Plan : Modification to the approved Review of Mining Plan
vide Letter No: TN/ALR/LST/MMP-2067.MDS dated
18.08.2020
(xiii) Period of Mining Plan/ Review of Mining Plan : MMP for the Period – 2020-21 to 2023-24

(xiv) Production (Year 2021-22) :

Year	Proposed in Tonnes	Actual in Tonnes
2021-22	99980	99959.980

2. Brief description of the mine:

Geology of the Area:

The Limestone deposit in the area granted under mining lease forms a part of Kallankurichi limestone formations of Middle Ariyalur stage of Cretaceous beds in South India. These deposits are geologically called the Maestrichian Limestones. This limestone bed is sandwiched between two sandstone beds. It can be traced continuously for more than 9 K.ms in North - South direction starting from Srinivasapuram in the North through Kairulabad , Ameenabad, Periyagalur, Hasthinapuram, Kattupiringium, Pudupaalyam, Nerunchikorai, vilipiringium, and further South up to Idaiathankudi on the banks of Marudaiyar river .

The area granted under Mining lease comprises the Ariyalur Group of Kallankurichi formation. The contact of Ariyalur Group with the underlying Trichinopoly beds is mostly concealed by Recent Alluvium. A critical examination shows that the regional dips of the Ariyalur formation is 3 to 5 degrees towards north-east. The fossiliferous Ariyalur beds were laid down in the regressional sea. The Ariyalur carbonate rock hosts forams, miliotids, pelicycypods, gastropods, echnoides, ammonites, nautiloids etc. Ariyalur Group of rocks are more compact and stratified as contrasted to the Niniyurs. Moreover, the Ariyalur Group of rocks, especially the Kallankurichi Formation (shelly limestone, arenaceous limestone and ferrugenous limestones) sprawl over larger extent and width.

Longitude & Latitude Latitude (N) 11⁰ 06' 07'' - 11⁰ 06' 27''
Longitude (E) 79⁰ 08' 52'' - 79⁰ 08' 57''

Order of succession:-

Top soil	-	0 to 2.00 Meters
Overburden	-	2.00 to 18.00 Meters
Buff shell limestone	-	18.00 to 46.00 Meters

(3) Problems associated with mining of the deposit etc. : **Nil**

(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	1.20 Cu.M	1	1	-	100	Tata Hitachi	Excavator
3	Front End Loader	-	-	-	-	-	-	-
4	Water Sprinkler Water Tanker	10000 Litre	1	1	-	100	Ashok Leyland	Water Tanker
5	Dumpers /Tippers	10 Cu.M	10	10	-	100	Tarus	Tippers
6	Drills / Blast Holes	No Drilling & Blasting as the mine is proposed under Non- Conventional Method of Operation						
7	Bull Dozers / Ripper Dozer/XCentric Ripper	-	-	-	-	-	-	-
		1.80 Cu.M	1	1	-	100	Tata Hitachi XR-40	Xcentric Ripper
8	Motor Graders	-	-	-	-	-	-	-
9	Crushers	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
10	Cranes	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
11	Air Compressor	-	-	-	-	-	-	-

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

Sl. No	Proposal in the approved MMP for the period 2021-22	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	Nil
(b)	Utilization of sub-grade mineral	Nil	Nil	Nil
(c)	Any other proposal for monitoring	Nil	Nil	Nil
(2) SCIENTIFIC MINING				
(a)	Mine Development and method of mining	99980 tons	99959 tons	Nil
(b)	Handling of Waste/ sub-grade material	Nil	Nil	Nil
(c)	Area reclamation & restoration	Nil	Nil	Nil
(d)	Any other proposal for monitoring	Nil	Nil	Nil
(3) PROTECTION OF ENVIRONMENT				
(a)	Afforestation	500 nos of saplings	2000 Nos of saplings.	Nil
(b)	Quality of air	Air Quality standards within the limits.		Nil
(c)	Quality of Water	Water Quality standards within the limits.		Nil
(d)	Noise level	Noise level standards within the limits.		
(e)	Vibration	----		
(f)	Any other proposal for monitoring.	-----		

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, 1988 observed and pointed out	Rectification of violations	Remarks
1	2	3	4	5	6
1.	17/08/2021	Shri.S.Thirunavukkarasu, Sr.Mining Geologist	Regarding production less	Complied on 05.10.2021	

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	0.10	0.16	Strengthened the Nalla Thaneer Eri
	(iii) Sanitation	2.10	2.48	Promoted Hygiene and Sanitation, public health to the Local Community.
	(iv) Health safety and Medical Facilities	0.30	0.33	Provided Oxygen Storage Tank to Government Hospital
(2)	Education and Training	3.90	3.87	construction of Flooring, Fencing and Leveling of Ground in Government Schools & Promoted skill development to the local community
(3)	Employment to local inhabitants			
(4)	Public Transportation and communication			
(5)	Recreation and other sports activities	0.20	0.24	Sponsored Gift for the sports activities during Pongal festival for the local communities and supported to the local Temples etc.,
(6)	Expenditure for environment management	-	-	-
(7)	Other	6.40	6.83	Chain link fencing and MS gate in and around Pudhupalayam panchayath office under CSR Activity & Renovated DSP Camp office and provided safety barricade to Police Department
Total		13.00	13.92	

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. A.S.Sanjeeva Rao, JMG

2) Date and Type of inspection: MCDR & Star Rating Inspection – 13.12.2022

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**