CCCPL/TN/KKR /EC Compliance/ Oct'2022 - Mar'2023/22-23/ 29th May 2023

The Joint Director
Ministry of Environment, Forest & Climate Change
Government of India
IRO, 1st Floor, Additional Office Block for GPOA,
Shastri Bhawan, Haddows Road, Nungambakkam
Chennai - 600 006.

Sir,

Sub: Submission of Environmental Clearance (EC) Compliance Report (Oct'2022 - Mar'2023) Chettinad Cement Corporation Private Limited – Karuppur Keelapalur Limestone Mine (26.145 ha) at Karuppur Senapathy & Keelapalur Villages, Ariyalur Taluk & District, Tamilnadu

Ref: Environmental Clearance granted by SEIAA, Tamilnadu vide Letter No: SEIAA-TN/F.No 3000/2013/EC-40/1(a)/ARY/2016/ dated 27th Apr 2016

We submit herewith the Six Monthly Environmental Clearance Compliance Report pertaining to Karuppur Keelapalur Limestone Mine (26.145 ha) at Karuppur Senapathy & Keelapalur Villages, Ariyalur Taluk & District, Tamilnadu, for the period from Oct'2022 - Mar'2023.

a. Environmental Clearance Compliance Report Annexure 1
b. Environmental Monitoring Report comprising of

i. Ambient Air Quality Monitoring - Consolidated Report - Annexure 2
ii. Noise Level Monitoring - Consolidated Report - Annexure 3
iii. Ground Water Quality Monitoring Report- Annexure 4
iv. Environment & Safety Management Cell Committee – Annexure 5
v. TNPCB AAQ survey report – Annexure 6
vi. Ban Plastic Awareness – Annexure 7

Kindly Acknowledge the receipt of the same.

Yours faithfully,
for Chettinad Cement Corporation Private Limited

R. P. Muthiah
Vice President (Works)

Copy to:
Zonal Office, CPCB, Bangalore
Member Secretary, TNPCB, Chennai.
JCEE, TNPCB, Trichy
DEE, TNPCB, Ariyalur

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Annexure 1

Chettinad Cement Corporation Private Limited

Karuppur Kilapaluvur Limestone Mine
Karuppur Senapathy &Kilapaluvur Villages, Ariyalur Taluk &District, Tamilnadu

Environmental Clearance (EC) Compliance Report (Oct-22 to March-23)

(Environmental Clearance granted by SEIAA, Tamilnadu vide Letter No :SEIAA-TN/ F.NO 3000/2013/EC-40/1(a)/ARY/2016/ dated27.4.2016for a Mining Capacity of 0.76 million tons per annum& Mining Lease Area of26.145 ha)

Part A - Conditions for Pre-Construction Phase

S.No	Condition(Pre-Construction Phase)	Compliance Status
i.	NOC from the National Board for Wild Life shall be obtained before commencement of quarry operations ,for the Karaivetti Bird Sanctuary located at distance of 8 km from the proposed site for application submitted for the same on 01.07.2014	**Complied.** No Objection Certificate was obtained from District Forest Officer vide letter No.: C No.1993/2017/P dt: 13.09.2019, stating that, and "the project site is located away from the Eco sensitive zone Boundary of Karaivetti bird sanctuary". As per MoEF notification (S.O.1909(E) dt. New Delhi, the 31st May, 2019, the extent of Karaivetti Eco-sensitive Zone varies from 0.105 kilometers to 0.891 kilometers around the Karaivetti Bird Sanctuary and Karuppur Keelapalur Limestone mines falls at 7.3 KM i.e. out of Eco sensitive Zone of Karaivetti bird Sanctuary. Hence, NOC from NBWL is not applicable to this project.
ii.	Vision document specifying prospective plant for the site shall be formulated and submitted to the Regional Office of the Ministry within six months.	**Complied.** The Environmental Clearance has been obtained for 5.5 million tons of Cement per annum and 45 MW of Captive Power Generation at Kilapaluvur, Ariyalur District, Tamilnadu vide letter dated 17.07.2009.This Captive Limestone Mine is catering to the requirement of the Cement Plant . As of now, no further expansion of capacity of Cement Plant has been planned and also submitted an undertaking dated 09.09.2022 that they will not increase the mining capacity above the permitted quantity without intimating to the Regional Office of

CHETTINAD CEMENT CORPORATION PVT. LTD. ARIYALUR WORKS

S.No	Condition(Pre-Construction Phase)	Compliance Status
		MoEFCC, Chennai or without getting necessary clearance/consent from Competent Authority.
iii.	In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA Shall be obtained. No change in mining technology and scope of working should be made without prior approval of the State Environmental Impact Assessment Authority .No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	**Complied.** No change in mining technology and scope of working will be made without prior approval of the State Environmental Impact Assessment Authority (Tamilnadu). No change in the calendar plan including excavation, quantum of mineral limestone and waste was made..
iv.	A copy of the clearance letter shall be sent by the proponent to the Local Body, Ariyalur Taluk, Ariyalur District, and the local NGO, if any ,from whom suggestions/representations, if any, have been received while processing the proposal. The clearance letter shall also be put in the website of the Company by the Proponent.	**Complied.** A copy of the Environmental Clearance letter was sent to Keelapaluvur Panchayat on 10.06.2016. The EC letter has been uploaded in the company website. https://www.chettinad.com/cement_plants.php?site=Ariyalur
v.	Consent for Establishment shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamilnadu before taking up any construction activity at the site.	**Complied.** The Consent for Establishment (CFE) was obtained from TNPCB under Air(Prevention and control of pollution) Act,1981 and Water(Prevention and control of pollution)Act,1974,videproceedings No.T2/TNPCB/F.0644ARY/RS/ARY/A/2019and T2/TNPCB/F.0644ARY/RS/ARY/W/2019 respectively on 06 th September-2019. A copy of CFE submitted to the SEIAA, Tamilnadu before taken up construction activity at the site.
vi.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act,1980 and Wildlife (Protection) Act ,1972, State/Central Ground Water Authority, Coastal Regularity Zone Authority, other statutory authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.	**Complied.** All applicable statutory clearances for this project have been obtained from the concerned competent authorities. The mining lease area does not fall within 10 km radius of any protected area, Reserved forest or Wild life sanctuaries. Hence clearances from Forest Conservation Act, 1980, and Wildlife (Protection) Act, 1972 does not arise. At present, the mining activity has not intersected the groundwater table.

CHETTINAD CEMENT CORPORATION PRIVATE LTD. ARIYALUR WORKS

S.No	Condition(Pre-Construction Phase)	Compliance Status
vii.	The construction of the structures should be undertaken as per the plans approved by the concerned local authorities /local administration.	**Complied.** The construction of the structures was undertaken as per the plans approved by the concerned local authorities /local administration.
viii.	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	**Complied.** No appeal is lying with the National Green Tribunal against the Environmental Clearance as on date.
ix.	All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.	**Complied.** All the required sanitary and hygienic measures were followed during construction activities and maintained throughout the construction activities.
x.	The company shall stress upon the preventive aspects of occupational health.	**Complied.** Workers are trained on the need to use Personal Protective Equipment to safeguard against possible occupational health issues and also on the safe procedures to be followed to prevent accidents.
xi.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	**Complied.** Only the construction of Office Shed, Toilet &Septic Tank was involved in this project. The workers from nearby the villages were engaged. Hence, housing for the construction laborer was not envisaged. However, safe drinking water, medical health care etc., was ensured for the laborer.
xii.	The project authorities shall advertise with basic details at least in two widely circulated newspapers, one of which shall be in the vernacular language of the locality concerned within 7 days of the issue of clearance and copy of the clearance letter is available with State Pollution Control Board and also at website of SEIAA,TN and a copy of the same should be forwarded to the Regional office of the Ministry of Environment and Forests located at Chennai.	**Complied.** Advertised in English (The New Indian Express) and in Tamil (Dinamani) published on 21.05.2016. The advertisement was made within 7 days from the date of receipt of the clearance letter. The copy of advertisement published was submitted to the Regional office of the Ministry of Environment, Forest & Climate Change located at Chennai on 30.11.2016.
	A Separate environment and safety management cell with qualified staff shall be set up before commissioning of construction activities and shall be retained throughout the life time of the industry, for	**Complied.** A separate Environmental & Safety Cell was formed to take care of EHS function and the Head of the Cell was directly reporting to the Head of the Organization for complying with environmental and safety regulations

S.No	Condition(Pre-Construction Phase)	Compliance Status
	implementation of the stipulated environmental safeguards.	and implementing pollution control and occupational health and safety measures. The Environment and Safety Management Cell was constituted vide internal circular dated 01.08.2022 for a period of three years as per the company policy. All the environmental parameters were monitored by recognized third party laboratory.
xiii.	The State pollution control board should display a copy of Environmental Clearance issued to the project at the regional office, District Industry Centre and Collector's Office/Tahsildar's Office for 30 days.	**Guidelines Noted.**

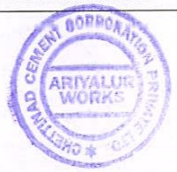
Part B - Conditions for Construction Phase

S No	Condition(Construction Phase)	Compliance Status
i.	Non-conventional open-cast mechanized mining method shall be adopted as reported for the mining of Limestone. No drilling or blasting shall be done during mining operations.	**Complied.** Non- conventional open-cast fully mechanized mining method is being adopted and no drilling or blasting is being carried out.
ii.	Monitoring of well water levels and water quality of the wells in the locations furnished in the EIA report shall be done during pre-monsoon and post monsoon period and results submitted to the Regional Office of the MoEF, Chennai and SEIAA.	**Complied.** At present, the mining activity has not intersected the groundwater table. The monitoring of well water levels and water quality of wells in the locations were being carried out by NABL recognized third party laboratory viz.M/s SMS Labs and Services pvt Ltd . The monitored data shows that the values were within the limits. The results were submitted to the Regional Office of the MoEFCC, Chennai and SEIAA, Chennai.
iii.	Monitoring of water quality and air quality in and around the project site in the selected monitoring points as mentioned in the EIA report shall be continued regularly involving Academic Institutions.	**Complied.** At present, the mining activity has not intersected the groundwater table. The monitoring of well water levels and water quality of wells in the locations were being carried out by NABL recognized third party laboratory viz.M/s SMS

CHETTINAD CEMENT CORPORATION PRIVATE LTD. ARIYALUR WORKS

S No	Condition(Construction Phase)	Compliance Status
		Labs and Services pvt Ltd . The monitored data shows that the values were within the limits. The results were submitted to the Regional Office of the MoEFCC, Chennai and SEIAA, Chennai.
iv.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The periodic monitoring (at least four times in a year-pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season) shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forest and its Regional Office, Chennai, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	**Complied.** The regular monitoring of ground water level and quality taken up in and around the Mining Lease Area by establishing a network of existing wells and Installed Piezometers. The periodic monitoring, four times in a year, once in each season, carried out in consultation with the State Ground Water Board and the data thus collected was submitted regularly to the SEIAA, TN and the Regional Office of the MoEFCC, Chennai, the Ground Water Board. At present, the mining activity has not intersected the groundwater table.
v.	The proponent shall conduct AAQ Monitoring Survey once in 6 months in the locations furnished in the EIA report and furnish report to the Regional Office of the MoEF, Chennai .It shall be ensured that one AAQ station shall be located in the nearby habitation of Kilapaluvur village	**Complied.** Monitoring of Ambient Air Quality at four different locations within the premises is being carried out by NABL recognized third party laboratory viz.M/s SMS Labs and Services pvt Ltd . The monitored data show that the values were within the limits. The results were submitted to the Regional Office of the MoEFCC, Chennai and SEIAA, Chennai.
vi.	The critical parameters such as RSPM ($PM_{2.5}$, PM_{10}) and Nox in the ambient air within the impact zone, peak particle velocity at 300 m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored (TDS, DO, PH and Total Suspended Soilds (TSS). The monitored data shall be uploaded on the website of	**Complied** During mining operations, the periodical monitoring of parameters such as $PM_{2.5}$, PM_{10} and NOx in the ambient air within the impact zone is being carried out by NABL recognized third party laboratory viz.M/s SMS Labs and Services pvt Ltd . The monitored data show that the values were within the limits. The results were submitted to the Regional Office of the MoEFCC, Chennai as part of six monthly compliance report and SEIAA, Chennai. TNPCB

S No	Condition(Construction Phase)	Compliance Status
	the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, Govt. of India, New Delhi which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	report letter no. 68/AAQS/20202-23 DT. 19.01.2023 furnished report of analysis of ambient air quality level in the mining area and mentioned data shows that the values are within the limits. and enclosed as Annexure-6 Treatment of effluent is being carried out in septic tank followed by dispersion trench within the mining lease area. There is no process effluent generated from the mine pit. The monitored data uploaded on the website of the company https://www.chettinad.com/cement_plants.php?site = Ariyalur as well as displayed on a display board at the project site at a suitable location near the main gate of the company in public domain.
vii.	Data on ambient air quality [RSPM and NOx] shall be regularly submitted to the Regional office of the MoEF at Chennai and the SEIAA/ SPCB / CPCB once in six months.	**Complied.** The monitoring of parameters such as $PM_{2.5}$, PM_{10} and NOx in the ambient air also being carried out and the monitored data on ambient air quality are being regularly submitted to the SEIAA, TN including the Regional Office of the MoEFCC located at Chennai,TNPCB and CPCB once in six months.
viii.	Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	**Complied.** Water sprinkling is being done on haul roads, loading areas etc. at frequent intervals to control fugitive dust emissions.
ix.	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For this purpose, schedule of health examination of the workers should be drawn and followed accordingly.	**Complied.** Pre-placement medical examination and periodical medical examination, for the workers engaged for the mining operations were carried out and records are being maintained
x.	Regular medical check-up for mine workers and nearby residents around the project site involving community medical center / NIMH shall be conducted.	**Complied.** The regular medical check-up for mine workers and nearby community (under CSR initiative) around the project site are carried out and records are being maintained.



S No	Condition(Construction Phase)	Compliance Status
xi.	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all transfer points shall also have efficient dust control arrangements. These should be properly maintained and operated.	**Complied.** The activities viz., Mineral Handling, Loading and Unloading were envisaged during the mining operations. While carrying out mining operations, water sprinkling arrangements were provided at frequent intervals to suppress the dust at material handling area & loading and unloading areas.
xii.	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	**Complied.** The vehicles entering the Mine are checked at the entry point for Pollution Under Control Certificate. Use of vehicles for mining operations, transportation of mineral and maintenance of vehicles are envisaged only during mining operations. Regular maintenance of vehicles used in mining operations and in transportation of mineral ensured. Vehicles transporting limestone from mines to the factory were covered with tarpaulin properly so as to arrest the dust particles/fine matters escaping during the course of transportation. No overloading was done and ensured.
xiii.	The effective safeguard measurements shall be provided to control particulate dust level in critical areas, transfer points and haul road with in the mining area.	**Complied.** Water sprinkling is being done on haul roads, loading areas etc. at frequent intervals to control fugitive dust emissions.
xiv.	At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (PM_{25}, PM_{10}) and NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the Tamilnadu Pollution Control Board.	**Complied.** Monitoring of Ambient Air Quality at four different locations within the premises is being carried out by NABL recognized third party laboratory viz.M/s SMS Labs and Services pvt Ltd . The monitored data show that the values were within the limits. The results were submitted to the Regional Office of the MoEFCC, Chennai and SEIAA, Chennai. TNPCB report letter no. 68/AAQS/20202-23 DT. 19.01.2023 furnished report of analysis of ambient air quality level in the mining area and mentioned data shows that the values are within the limits. and enclosed as Annexure-6
xv.	Mine working shall be restricted up to 15 bgl(average) as per the present mine plan period. NOC from the state GWA for drawing ground water level.	**Complied.** At present, the mining activity has not intersected the groundwater table. The mine workings are restricted up to 15 m bgl(average) as per IBM Approved Mining Plan.

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<table>
<tr><th>S No</th><th>Condition(Construction Phase)</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>Hence, No Objection Certificate from Water Resources Department, Tamilnadu, is not applicable at this stage.</td></tr>
<tr><td>xvi.</td><td>Separate drain shall be constructed in between waste dumps (bunds) and river Marudaiyar.</td><td>Complied.
No dumps were planned throughout the life of the mines as per the IBM approved mining plan. Waste was backfilled /refilled in the mined out area as refilling.
<table>
<tr><th>Period</th><th>Quantity Removed [Ton]</th><th>Used for Afforestation</th><th>Top Soil Stored</th></tr>
<tr><td>2019-20</td><td>92450</td><td>92450</td><td>0</td></tr>
<tr><td>2020-21</td><td>97426</td><td>97426</td><td>0</td></tr>
<tr><td>2021-22</td><td>76520</td><td>56420</td><td>20100</td></tr>
<tr><td>2022-23</td><td>81045</td><td>48627</td><td>32418</td></tr>
<tr><td>Total</td><td>347441</td><td>294923</td><td>52518</td></tr>
</table></td></tr>
<tr><td>xvii.</td><td>Garland drains & siltation ponds of appropriate size shall be constructed around the mine working, soil and mineral dumps to prevent runoff water and flow of sediments. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly de silted particularly after monsoon and maintained properly.</td><td>Complied.
Garland drains of appropriate size, around the mine working pit, and siltation ponds were constructed to prevent runoff water and flow of sediments. The water diverted and collected in the sump at the bottom most bench of the Mine Pit was utilized for watering the mine area, roads, greenbelt development etc. The drains and siltation ponds were regularly desilted particularly after monsoon and maintained properly.
No Mineral Dump at the lease area all the mined out Limestone transported to the Cement Plant without storing at mine area.</td></tr>
<tr><td>xviii.</td><td>The rain water accumulation in the mine during rainy seasons shall be treated by providing settling tanks in the periphery of the mining lease and over flow clean water from the settling tanks shall be allowed to discharge through the first order streams to join nearby natural drains. The settling tank shall be cleaned periodically for removal of sediments and such records of cleaning shall be maintained properly.</td><td>Complied.
Garland drains/Catch drains of appropriate size (1270 mX2mX2m) around the mine working pit, and siltation ponds were constructed to prevent runoff water and flow of sediments. The sediments in garland drains and siltation ponds were cleared periodically and records of cleaning are being maintained.
The rain water collected in the sump at the bottom most bench of the Mine Pit was used for dust suppression, greenbelt development and domestic purpose.</td></tr>
<tr><td>xix.</td><td>Garland drain proposed on the non moving sides of the dump yards shall be connected to settling tanks to arrest any wash off sediments from the dumps and</td><td>Complied.
Garland drains/Catch drains of appropriate size (1270 mX2mX2m) around the mine working pit, and siltation ponds were constructed to prevent runoff</td></tr>
</table>

CHETTINAD CEMENT CORPORATION PRIVATE LTD. ARIYALUR WORKS

<table>
<tr><th>S No</th><th>Condition(Construction Phase)</th><th>Compliance Status</th></tr>
<tr><td></td><td>only overflowing clean water shall be allowed to discharge through the first order streams. The settling tank shall be sufficient dimensions to hold the wash offs in one rainy season and has to be cleaned before every rainy season.</td><td>water and flow of sediments.
No waste dumps were planned throughout the life of the mine and waste thus generated during the mining activity were utilized for back filling of mined out pits as per the IBM approved mining plan.
The rain water collected in the garland drains, after Suspended Solids settlement in siltation ponds, joins the rainwater harvesting pond within the mining Lease area.</td></tr>
<tr><td>xx.</td><td>Proper scheme to lay the GEO-MAT on the dump yard on non-moving sides shall be evolved to develop plantation on the GEO-MAT to have a green coverage.</td><td>Complied.
No waste dumps were planned throughout the life of the mines and waste thus generated during the mining activity will be utilized for back filling of mined out pits as per the IBM approved mining plan.
<table>
<tr><td>Period</td><td>Quantity Removed [Ton]</td><td>Used for Afforestation</td><td>Top Soil Stored</td></tr>
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<tr><td>Total</td><td>347441</td><td>294923</td><td>52518</td></tr>
</table></td></tr>
<tr><td>xxi.</td><td>Conservation Plan furnished to protect the Scheduled flora and fauna in the core and buffer zone of the project shall be implemented. Scheduled species of fauna found in the study area shall be monitored closely.</td><td>Complied.
There is no forest area/protected area in the vicinity of the mining area. Hence monitoring of Scheduled fauna /flora found in the study area does not arise.</td></tr>
<tr><td>xxii.</td><td>Annual monitoring on Bio-diversity around the project site shall be conducted and a report shall be furnished.</td><td>Complied.
The annual monitoring on Bio-diversity around the project site was taken up and reports were furnished SEIAA during the appraisal process.</td></tr>
<tr><td>xxiii.</td><td>Green belt shall be raised including a 7.5 m wide statutory barrier all around the mining lease, reclaimed& rehabilated areas, around water body, roads etc by planting local species in consultation with local DFO/Agriculture department. The ultimate area to be planted/afforested shall not be less than 0.4 ha. The density of trees should be around 2000 plants/Ha. Greenbelt shall be developed all along the mining lease area in a phased manner and shall be completed within first 5 years.</td><td>Complied.
Greenbelt raised for a 7.5 m width all around the mining lease, reclaimed& rehabilated areas, around water body, roads etc by planting local species
There Pits(Pit-1,Pit-2& Pit-3) were reclaimed and afforestation has been completed in two pits and Plantation is in progress in the third pit.</td></tr>
</table>

S No	Condition(Construction Phase)	Compliance Status
xxiv.	The project authority shall implement suitable conservation measures including suitable rain water harvesting measures to augment ground water resources in the area in consultation with Regional Director, State ground water board.	**Complied.** The rain water harvesting measures were taken up within the mining lease area. The rain water harvesting pond of dimension 76m X 80mX2.5m was constructed and rain water is being collected in the sump at the bottom most bench of the Mine Pit, after settling. The collected rainwater is being used for dust control in haul roads, greenbelt development and domestic purpose within the Mining Lease Area. The water stored in the sump itself is helped to augment ground water recharge.
xxv.	The company shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter alia address i) Standard operating process /procedure to bring into focus any infringement /deviation/violation of environmental or forest norms/conditions ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance of EC conditions and iii) system of reporting of non compliance/violation of environmental norms to the board of directors of the company and / or stake holder or share holders.	**Complied.** The copies of Corporate Environmental Policy (CEP) and the salient features of the CEP has been submitted to MoEFCC, Delhi and the Regional Office of MoEFCC, Chennai. We have IMS (Integrated Management system), in which, Quality, Environment, Energy, Occupational health & safety were covered.
xxvi.	A final Mine closure plan along with details of corpus fund, shall be submitted to the Ministry of Environment and Forest, Government of India, New Delhi in advance of 5 years prior to final mine closure for approval. Mine closure procedure shall be followed as per the approved mining plan.	**Complied.** Final Mine Closure Plan along with details of Corpus Fund will be submitted to the Ministry of Environment and Forest, Government of India, New Delhi in advance of 5 years prior to final mine closure for approval. Mine closure procedure will be followed as per the approved Mining Plan.
xxvii.	Depth of water table of the wells located inside the mining area and wells located around the monitoring area shall be monitored regularly.	**Complied.** There is no bore wells/open wells inside the Mining Lease Area. Further, there is no extraction of ground water. At present, the mining activity has not intersected the groundwater table. Piezometers are installed to monitor ground water level. Periodical monitoring of surface

S No	Condition(Construction Phase)	Compliance Status
		water and ground water are being carried out by NABL recognized third party laboratory viz.M/s SMS Labs and Services pvt Ltd . The monitored data show that the values were within the limits. The status reports are submitted on half yearly basis to the Regional Office of the MoEFCC, Chennai .
xxviii.	CSR activity shall include providing social & welfare measures for the local residents & nearby villagers around the mine area. It shall focus on providing water supply and sanitation facility to the nearby government schools around the mine area and maintenance of village roads, ponds, providing solar street lights etc. Funds earmarked for CSR activity shall be used for that purpose only and separate account shall be maintained and report on implementation shall be furnished regularly.	**Complied.** CSR activities are implemented as committed by drawing a scheme for social up-liftment in the surrounding villages with reference to the contribution in road construction, providing drinking water supply and sanitation facilities to the nearby government schools maintenance of village roads, ponds, providing solar street lights etc and employment to local people whenever and wherever possible both from technical and non –technical jobs and protection of water sources. Funds earmarked for CSR activities are being used for that purpose only and separate account is being maintained.

Part C: Conditions for Post-construction Phase/Operation Phase &Entire Life of the Project

S.No	Condition (Post-construction Phase/Operation Phase & Entire Life)	Compliance Status
i.	It is mandatory for the project proponent to furnish to the SEIAA, Half yearly compliance report in hard and soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior environmental clearance and also before commencement of production.	**Complied.** Half yearly compliance report are being submitted in hard and soft copies of the conditions stipulated in the prior environmental clearance and also before commencement of production.
ii.	No expansion or modernization in the project shall be carried out without prior approval of the SEIAA-TN .In case of any deviations or alterations in the project proposal from those submitted to the authority for clearance ,a fresh reference shall be made to the SEIAA-	**Complied.** No expansion or modernization in the project was carried out. We have obtained the validity extension of Environmental clearance for three years up to 2025-26 as per the provisions of the EIA notification, 2006.

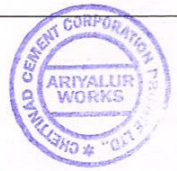
CHETTINAD CEMENT CORPORATION PVT. LTD. ARIYALUR WORKS

S.No	Condition (Post-construction Phase/Operation Phase & Entire Life)	Compliance Status
	TN to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
iii.	All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.	**Complied.** All the environmental protection measures and safeguards as recommended in the EIA report are being implemented.
iv.	The implementation of the project vis-à-vis environmental action plans shall be monitored by the regional office of MOEF at Chennai /TNPCB/CPCB.A six monthly compliance status Report shall be submitted to monitoring agencies.	**Complied.** Six monthly compliance status Report is being submitted regularly to MOEFCC at Chennai, TNPCB & CPCB.
v.	Data on ambient air, stack and fugitive emissions shall be regularly submitted online to the regional office of MOEF at Chennai, TNPCB and Central Pollution Control Board as well as hard copy once in six months and display data on RSPM,SO_2 and NOx outside the premises at the appropriate place for the general public.	**Complied.** Monitoring of Ambient Air Quality and fugitive emissions is being carried out by NABL recognized third party laboratory viz.M/s SMS Labs and Services pvt Ltd . The monitored data show that the values were within the limits. The results were submitted to the Regional Office of the MoEFCC, Chennai and SEIAA, Chennai, TNPCB & CPCB. TNPCB report letter no. 68/AAQS/20202-23 DT. 19.01.2023 furnished report of analysis of ambient air quality level in the mining area and mentioned data shows that the values are within the limits. and enclosed as Annexure-6 The data on PM_{10}, $PM_{2.5}$, SO2 and NOx were displayed outside the premises at the appropriate place for the general public.
vi.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	**Complied.** Occupational health surveillance of the workers are being carried out on a regular basis and records are maintained.
vii.	Proper housekeeping and cleanliness must be maintained within and outside the plant.	**Complied.** Proper housekeeping and cleanliness is being maintained within and outside the Mine.
viii.	Occupational health surveillance programme shall be undertaken as regular exercise for all employees especially for those engaged in handling hazardous activities .The first aid facilities in the occupational health centre shall be strengthened and	**Complied.** Occupational health surveillance programme of the workers were conducted periodically to observe any abnormality due to exposure to dust and take corrective measures, if needed. No hazardous activities involved in the mines.

CHETTINAD CEMENT CORPORATION ARIYALUR WORKS

S.No	Condition (Post-construction Phase/Operation Phase & Entire Life)	Compliance Status
	medical records of each employees should be maintained separately.	First Aid facilities are available within the mining lease area. Surveillance Health records of the workers are also being maintained.
ix.	The overall noise level in and around mining area shall be kept within the standards prescribed for by providing noise control measures on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules 1989viz.55 dBA (day time) and 45 dBA (night time)	**Complied.** Monitoring of Ambient noise level is being carried out by NABL recognized third party laboratory viz. M/s SMS Labs and Services pvt Ltd . The monitored data show that the values were within the limits. TNPCB report letter no. 68/AAQS/20202-23 DT. 19.01.2023 furnished report of analysis of ambient air quality level in the mining area and mentioned data shows that the values are within the limits. and enclosed as Annexure-6 Workers engaged in the operations of HEMM were provided with ear plug/muff. The heavy mining equipment were provided with sound proof cabins for operators. Measures like silenser, greenbelt along the boundary of the mining lease area are being provided.
x.	The project proponent shall regenerate /preserve water body located at about 5 km from the proposed site at its own expenses. The project proponent shall also develop village ponds in addition and ensure that the existing ponds in and around 5.0 km radius are well maintained.	**Complied.** Actions were taken to preserve the water body located at about 5 km from the proposed Mine site at our own expenses and also developed village ponds in addition and maintained the existing ponds in and around 5km radius.
xi.	Hydro geological study of the area shall be reviewed annually and report submitted to the Authority. No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the operation of the Mining Activity.	**Complied.** Hydrogeological study of the area was reviewed and submitted to SEIAA at the time of appraisal process. At present, the mining activity has not intersected the groundwater table. There are no water bodies including natural drainage system in the area disturbed due to mining activities and taken necessary precautions. There is no extraction of ground water.

<table>
<tr><th>S.No</th><th>Condition (Post-construction Phase/Operation Phase & Entire Life)</th><th>Compliance Status</th></tr>
<tr><td>xii.</td><td>At least three nearest villages shall be adopted and basic amenities like development of roads, drinking water supply, primary health centre, primary school, etc shall be developed in coordination with the district administration.</td><td>Complied.
Under CSR initiative, the basic amenities like development of roads, drinking water supply, primary health-care centre, primary school, etc are being taken up in coordination with the district administration to meet the requirements of nearby villages.
<table><tr><td>CSR Expenses</td><td>2020-21</td><td>2021-22</td><td>2022-23</td></tr><tr><td>CSR Expenses in Rs.</td><td>1262041.8</td><td>1325775</td><td>1445000</td></tr><tr><td></td><td colspan="3">4032816.8</td></tr></table></td></tr>
<tr><td>xiii.</td><td>CSR activity shall be implemented as committed by drawing a scheme for social up-liftment in the surrounding villages with reference to contribution in road construction, providing sanitation facilities ,drinking water supply in the government schools nearby, community awareness, establishment of health centres, water supply to nearby villages and employment to local people whenever and wherever possible both for technical and nontechnical jobs and protection of water sources around the project site etc. Funds earmarked for CSR activity shall be used for that purpose only and separate account shall be maintained and report on implementation shall be furnished regularly.</td><td>Complied.
CSR activities are implemented as committed by drawing a scheme for social up-liftment in the surrounding villages with reference to the contribution in road construction, providing drinking water supply and sanitation facilities to the nearby government schools maintenance of village roads, ponds, providing solar street lights etc and employment to local people whenever and wherever possible both from technical and non – technical jobs and protection of water sources.
<table><tr><td>CSR Expenses</td><td>2020-21</td><td>2021-22</td><td>2022-23</td></tr><tr><td>CSR Expenses in Rs.</td><td>1262041.8</td><td>1325775</td><td>1445000</td></tr><tr><td></td><td colspan="3">4032816.8</td></tr></table>Funds earmarked for CSR activities are being used for that purpose only and separate account is being maintained.</td></tr>
<tr><td>xiv.</td><td>A separate Environmental Management Cell equipped with full-fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of senior executive</td><td>Complied.
A separate Environmental and Safety Cell has been created to take care of EHS function and the Head of the Cell was directly reporting to the Head of the Organization for complying with environmental and safety regulations and implementing pollution control and occupational health &safety measures. The Environment and Safety Management Cell was constituted vide internal letter dated 01.08.2022 for a period of three years as per the company policy and is enclosed as Annexure-5
All the environmental parameters are being</td></tr>
</table>



<table>
<tr><th>S.No</th><th>Condition (Post-construction Phase/Operation Phase & Entire Life)</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>monitored by recognized third party laboratory.</td></tr>
<tr><td>xv.</td><td>The requisite amount earmarked towards capital cost and recurring cost /annum for implementation of pollution control measures shall be used judiciously to implement the Environment Management Plan as furnished in the EIA Report. The funds so provided shall not be diverted for any other purpose.</td><td>Complied.
The funds earmarked for environmental protection measures kept in separate account and used to implement the Environment Management Plan .

<table>
<tr><th>Details</th><th>2020-21</th><th>2021-22</th><th>2022-23</th></tr>
<tr><td>General Development in the area</td><td>286140</td><td>766479</td><td>360400</td></tr>
<tr><td>Water Sprinkling / Dust Suppression</td><td>425000</td><td>480000</td><td>320000</td></tr>
<tr><td>Environment Monitoring</td><td>163700</td><td>163700</td><td>165000</td></tr>
<tr><td>Piezometer</td><td>75000</td><td>75000</td><td>0</td></tr>
<tr><td>Sub Total</td><td>949840</td><td>1485179</td><td>845400</td></tr>
<tr><td>Grand Total</td><td colspan="3">3280419</td></tr>
</table></td></tr>
<tr><td>xvi.</td><td>The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF,at Chennai, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely RSPM,SO_2,NOx (Ambient level as well as stack emissions) or critical sector parameters indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</td><td>Complied.
The status of compliance of the environmental clearance conditions is being uploaded in the company website (https://www.chettinad.com/cement_plants.php?site= Ariyalur)
The same is being simultaneously sent to the Regional Office of the Ministry of Environment and Forest & Climate Change, Chennai, the Zonal Office of Central Pollution Control Board, Bengaluru and the Tamilnadu Pollution Control Board.
No stack monitoring is required to be carried out as there is no stack within the mining lease area.

The environmental monitoring data displayed at a convenient location near the main gate of the company in the public domain.</td></tr>
<tr><td>xvii.</td><td>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The regional office of this Ministry at Bangalore/CPCB/SPCB</td><td>Complied.
The six monthly report on the status of compliance of the stipulated environmental clearance (both in hard copies as well as by e-mail) is being submitted to the SEIAA, TN, the Regional Office of the MoEF &CC, Chennai, and the Tamilnadu Pollution Control Board.
The monitored data (both in hard copies as well as by e-mail) will be submitted to all above mentioned authorities on commencing mining</td></tr>
</table>

S.No	Condition (Post-construction Phase/Operation Phase & Entire Life)	Compliance Status
	shall monitor the stipulated conditions.	operations.
xviii.	The environmental statement for each financial year ending 31st March in Form - V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	**Complied.** The environmental statement for financial year ending 31st March 2023 in Form - V is being submitted to the Tamilnadu Pollution Control Board and the Regional Office of the Ministry of Environment, Forest & Climate Change, Chennai on 25.05.2023. The same is being displayed on the website of the company and also sent to the respective Regional Office of the Ministry of Environment, Forest & Climate Change, Chennai by e-mail. The status of compliance of Environmental Clearance conditions is being uploaded on the company website.
xix	Environmental clearance is being issued without Prejudice to the action initiated under Environment (Protection) Act ,1986 or any court case pending or any other court order shall prevail.	**Condition Noted.**
xx	The SEIAA,TN may alter/modify the above conditions or stipulate any further condition in the interest of environmental Protection.	Guidelines noted and additional condition stipulated, if any, will also be implemented.
xxi	The SEIAA /SEAC reserve the right to add any further condition(s) on receiving reports from the project authority. The above conditions shall be monitored by Regional Office of MOEF located at Chennai.	Guidelines Noted .
xxii	The SEIAA,TN may revoke or suspend the environmental clearance ,if implementation of any of the above conditions is not satisfactory.	Condition Noted.
xxiii	The SEIAA ,TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification ,2006 ,if, at any stage of the validity of this environmental clearance ,if it is found or if it comes to the knowledge of this SEIAA,TN that the project proponent has deliberately	Condition Noted.

S.No	Condition (Post-construction Phase/Operation Phase & Entire Life)	Compliance Status
	concealed/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.	
xxiv	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	Condition Noted.
xxv	The above conditions will be enforced inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act 1974, the Air (Prevention & Control of Pollution) Act 1981, Environment (Protection Act) 1986, the Public Liability Act , 1991 along with their amendments, draft Minor Mineral Conservation & Development rules ,2010 framed under MMDR Act 1957,National commission for protection of Child Right Rules 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ Hon'ble high court of Madras and any other Courts of Law relating to the subject matter.	Condition Noted.

for **M/s Chettinad Cement Corporation Private Limited**

R.P. Muthiah
Vice President (Works)

CHETTINAD CEMENT CORPORATION PRIVATE LTD. ARIYALUR WORKS

ANNEXURE 2

Chettinad Cement Corporation Private Limited -Karuppur Keelapalur Limestone Mine

Karuppur Keelapalur Village , Ariyalur District, Tamilnadu State

Ambiant Air Quality Monitoring- Consolidated Report (Oct 2022 -Mar 2023)

S.No	Location	PM_{10} (µg/m³)			$PM_{2.5}$ (µg/m³)			SO_2 (µg/m³)			NOx (µg/m³)		
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	Mines Office	64.5	59.6	61.3	33.6	27.5	30.0	10.9	9.8	10.2	23.1	22.1	22.7
2	Mines Haul Raod	66.7	62.0	63.8	31.6	29.4	30.5	11.5	10.6	11.0	24.8	22.8	23.9
3	Karuvadaicheri	58.4	55.6	57.1	27.7	25.1	26.4	9.6	8.6	9.2	20.8	18.4	19.7
4	Keezhapalur	60.3	56.0	57.9	29.0	24.8	26.8	10.3	8.4	9.3	21.4	18.8	20.3
5	Thideerkuppam Village	55.4	55.4	55.4	27.0	27.0	27.0	9.8	9.8	9.8	21.3	21.3	21.3
6	Karuppur Village	58.1	58.1	58.1	29.3	29.3	29.3	8.9	8.9	8.9	19.3	19.3	19.3
7	E&F Colony	59.5	59.5	59.5	26.3	26.3	26.3	10.3	10.3	10.3	18.6	18.6	18.6
8	Maravanur Village	56.3	56.3	56.3	24.8	24.8	24.8	9.2	9.2	9.2	23.4	23.4	23.4
Norm		**100 µg/m³**			**60 µg/m³**			**80 µg/m³**			**80 µg/m³**		

for **Chettinad Cement Corporation Private Limited**

R.P. Muthiah
Vice President (Works)

CHETTINAD CEMENT CORPORATION PRIVATE LTD. ARIYALUR WORKS

ANNEXURE 3

Chettinad Cement Corporation Private Limited -Karuppur Keelapalur Limestone Mine								
Karuppur Keelapalur Village , Ariyalur District, Tamilnadu State								
Noise Level Monitoring- Consolidated Report (Oct 2022 -Mar 2023)								
S.No	Location	UoM	Day			Night		
			L_{min}	L_{max}	L_{eq}	L_{min}	L_{max}	L_{eq}
Within the Premises								
1	Mines Office	dB(A)	48.7	50.2	49.5	43.2	44.7	43.9
2	Loading Area	dB(A)	49.7	51.1	50.4	44.1	45.5	44.8
Limit (L_{eq})		dB(A)	85			85		
S.No	Location	UoM	Day			Night		
			L_{min}	L_{max}	L_{eq}	L_{min}	L_{max}	L_{eq}
Outside the Premises								
1	Keelapalur Village	dB(A)	41.9	43.1	42.6	34.6	36.1	35.3
2	Karuvadaicherry Village	dB(A)	40.1	43.0	42.4	34.2	35.9	35.1
Limit (L_{eq})		dB(A)	55			45		

for **Chettinad Cement Corporation Private Limited**

R.P. Muthiah
Vice President (Works)

CHETTINAD CEMENT CORPORATION PRIVATE LTD. ARIYALUR WORKS

ANNEXURE 4

Chettinad Cement Corporation Private Limited-Karuppur Keelapalur Limestone Mine

Karuppur Senapathy & Keelapalur Village, Ariyalur District,Tamilnadu

Ground Water Quality Monitoring Report (Oct 2022 -Mar 2023)

S.No	Parameter	UoM	GW 1	GW 2	SW 3	Limit
			Dec-21	Dec-21	Dec-21	
1	pH	-	7.31	6.9	7.0	5.5 - 9.0
2	Temperature	Deg C	31.28	31.7	31.8	40
3	Particle size for TSS	-	100%	100%	100%	Shall pass 850 micron IS Sieve
4	TSS	mg/l	BDL(DL:1.0)	BDL(DL:1.0)	BDL (DL:1.0)	100
5	TDS	mg/l	554.50	328	330	2100
6	Chloride as Cl	mg/l	138.50	130	135	1000
7	Sulphide as S	mg/l	BLQ	BLQ	BLQ	2
8	Sulphate as SO_4	mg/l	122	54.9	56	1000
9	Fluride as F	mg/l	0.16	0.15	0.12	2
10	Sodium	mg/l	94.2	94.3	39	-
11	Copper	mg/l	BLQ(LOQ:0.002)	BLQ(LOQ:0.002)	BLQ(LOQ:0.002)	3
12	Zinc as Zn	mg/l	BLQ	BLQ	BLQ	1
13	Phenolic compounds as C_6H_5OH	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	1
14	Oil & Grease	mg/l	BLQ	BLQ	BLQ	10
15	Boron as B	mg/l	0.024	0.034	0.054	2
16	BOD 3 days 27°C	mg/l	BLQ	BLQ	BLQ	30
17	COD	mg/l	BLQ	BLQ	BLQ	250
18	Total Residual Chlorine	mg/l	BLQ	BLQ	BLQ	1
19	Arsenic as As	mg/l	BLQ(LOQ:0.002)	BLQ(LOQ:0.002)	BLQ(LOQ:0.002)	0.2
20	Cadmium as Cd	mg/l	BLQ(LOQ:0.002)	BLQ(LOQ:0.002)	BLQ(LOQ:0.002)	2
21	Total Chrominum as Cr	mg/l	BLQ(LOQ:0.002)	BLQ(LOQ:0.002)	BLQ(LOQ:0.002)	2
22	Hexavalant Chrominum	mg/l	BLQ	BLQ	BLQ	0.1
23	Lead as Pb	mg/l	BLQ(LOQ:0.002)	BLQ(LOQ:0.002)	BLQ(LOQ:0.002)	0.1
24	Selenium as se	mg/l	BLQ(LOQ:0.002)	BLQ(LOQ:0.002)	BLQ(LOQ:0.002)	0.05
25	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	BLQ(LOQ:0.0005)	BLQ(LOQ:0.0005)	0.01
26	Pesticides	mg/l	BLQ	BLQ	BLQ	---
27	Free Ammonia as NH_3	mg/l	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	5
28	Dissolved Phosphate as P	mg/l	BLQ	BLQ	BLQ	5
29	Total Kieldahl Nitrogen as N	mg/l	BLQ	BLQ	BLQ	100
30	Cyanide as CN	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL
31	Nickel as Ni	mg/l	BLQ	BLQ	BLQ	3

GW1 Keelapalur

GW2 Keelapalur Water

SW3 mines Sump water

BLQ: Below Qualification Limit.

BDL : Below Detectable Level

for Chettinad Cement Corporation Private Limited

R.P. Muthiah
Vice President (Works)

CHETTINAD CEMENT CORPORATION PRIVATE LTD. ARIYALUR WORKS

Annexure-5

Dt.: 01.08.2022

Chettinad cement

Chettinad Cement Corporation Private Limited, Ariyalur Works
Cement Plant, Captive Power Plant & Lime Stone Mines

Internal Circular

Sub: Environment & Safety Management Cell committee

Environment & Safety Management cell members is formed to take care of Environment safe guards measures in the Plant & Lime Stone Mines area. Now, the committee members are revised and listed below.

S.No.	Name of the Executive	Designation
1	Shri. R.P. Muthiah	Chairman & Plant Head
2	Shri. M. Jagadeesan	Vice Chairman & Operation Head
3	Shri. V. Ramesh	Secretary & Environment Head
4	Shri. Sivaji Samineni	Instrumentation Head
5	Shri. M.A. Rajavel	HR Head
6	Shri. M. Rajamohan	QUAS Head
7	Shri. L.V. Senthil Kumar	Electrical Head
8	Shri. S. Ramesh	Mines Head
9	Shri. P. Kanakaraj	Mech-Pre Clinkerisation Head
10	Shri. M. Radhakrishnan	Mech-Post Clinkerisation Head
11	Shri. K. Girisan	CPP Head
12	Shri. J. Meenakshi sundaram	Civil Head
13	Shri. S. Ashok Kumar	Safety Head
14	Shri. V. Palaniappan	Accounts Head
15	Shri. Dr. C. Vinoth	Medical Officer
16	Shri. M. Raja Chidambaram	Public Relations Officer(PRO)

Note- Committee will be revised after three years. Changes in the members if any to be replaced with new members within 15 days period.

for Chettinad Cement Corporation Private Limited

R. P. Muthiah
Vice President [Works]

Copy to: Team Members

Chettinad Cement Corporation Private Limited
Ariyalur Trichy Road, Keelapalur Post,
Ariyalur Dist - 621707, Tamilnadu, India.
T + 91 4329 250009
F + 91 4329 250011, 250013

CIN : U93090TN1962PTC004947
Regd.Office : Chettinad Towers,
603, Anna Salai, Chennai - 600 006.
T + 91 44 2829 2727, 42951800 (100 lines)
F + 91 44 2829 1558

E : ariyalur@chettinadcement.com
www.chettinad.com

Annexure-6

Tamil Nadu Pollution Control Board

Ambient Air Quality Survey Report

Report No:68 /AAQS/2022-2023 Dated: 19.01.2023

1.Name and Address of the Industry : M/s.Chettinad Cements Corporation Private Limited,
Karuppur -Keelapalur Limes Stone Mine,
Keelapalur Village,Ariyalur TK,
Ariyalur TK,
Ariyalur District.

2.Date of Survey : 07.12.2022

3.Duration of Survey : Eight Hours

4.Category : Red/ Small

5.Consent Order No. : 1904228391954

Ambient Temperature (°C)	Min	Max	**Relative Humidity (%)**	Min	Max
	25	32		43	68
Weather Condition	Clear		**Rain Fall (mm)**	Nil	
Predominant Wind Direction	NE to SW		**Mean Wind Speed (Km/hr)**	13.0	

Sl. No	**Location of Sampling Stations**	**From Source**			**Pollutants in µg/m3**		
		Dire.	**Dist. (m)**	**Ht. from gl (m)**	**PM_{10}**	**SO_2**	**NO_2**
1.	On the top of scaffolding near NE boundary of the mines	NE	700	2.0	52	9.5	11.7
2.	On the top of scaffolding near SE boundary of the mines	SE	500	2.0	60	12.0	14.2
3.	On top of scaffolding near SW boundary of the mines	SW	200	2.0	74	16.4	18.2
4.	On top of scaffolding near NW boundary of the mines	NW	700	2.0	65	14.5	16.3

19/1/23
Environmental Scientist,

19/01/23
Assistant Director,
AEL,TNPCB,Trichy-15.

Tamil Nadu Pollution Control Board

Ambient Noise Level Survey Report of Analysis

Report No: 68/AAQS/2022-2023 Dated: 19.01.2023

1	Name of the Industry		M/s.Chettinad Cements Corporation Private Limited,	
2.	Address of the Industry		Karuppur-Keelapalur Limes Stone Mine, Keelapalur Village, Ariyalur TK, Ariyalur District.	
3.	Date of Survey		17.12.2022	
4.	Consent Order No.		1904228391954	
5.	Category		Red/Small	
Type of Survey		Ambient	Time of Survey	Day
Meteorological Conditions			Clear	

Logging Parameters

Instrument Used	Casella	Serial No.	0499485
Logging Interval	10 Minutes in each Point	Measuring Range	50-110dB(A)
Weighting	"A"	Time Weighting	Fast
Sound Incidence	Random	Time of Survey in Hrs.	15.00 to 16.20

Sl No	Location	Duration (m)	Distance (m)	Direction	Sound Level –dB(A)		
					L_{eq}	LMin	LMax
1.	Near NE boundary of the mines	10	700	NE	51.4	42.1	65.6
2.	Near Eastern side of the mines	10	400	E	50.1	46.7	61.8
3.	Near SE corner of the mines	10	500	SE	47.1	43.5	57.6
4.	Near SW boundary of the mines	10	200	SW	52.6	47.2	58.7
5.	Near NW boundary of the mines	10	700	NW	49.7	45.4	55.4

19/1/23
Environmental Scientist,

19/01/23
Assistant Director,
AEL,TNPCB,Trichy-15.

Chettinad cement

Annexure-7

Karuppur Keelapalur Lime Stone Mines [26.145 Ha]
Compliance of Notification published by MoEF&CC on 12.08.2021
Single Use Plastic Ban Awareness Board installed

Single Use Plastic Ban Awareness for Karuppur Keelapalur Mines Employees & Workers