









Chettinad Cement,KW,TN / Dholipatti Mines/ Six Monthly Report / Apr'21-Sep'21/EHS-365 26th Nov, 2021

Regional Office (SEZ)
MoEF & CC, Government of India,

No.34, HEPC Campus, Cathedral Garden Road, Nungambakkam, Chennai – 600 034

Ph No. 044-28222056/48613477 Email Id: eccompliance-tn@gov.in

Dear Sir,

Subject : Submission of Six Monthly (April'2021 to September'2021) Compliance

Report of Environment Clearance for **Dholipatti Limestone Mines** of Chettinad Cement Corporation Private Limited located at Dholipatti, Karikkali & Palayam

Villages, Guziliamparai Taluk, Dindigul District, Tamil Nadu – 624703

Reference : Environmental Clearance F.No.J-11015/27/2000-IA 11(M) dated 19.03.2001

* * * * * * * * *

We hereby submit the **Six Monthly Compliance report (April'2021 to September'2021)** pertaining to above referred Environmental clearance of our "Dholipatti Limestone Mines, mining lease area of 138.785 ha with a mining capacity of 1.40 million tons per annum located at Dholipati, Karikkali & Palayam Villages, Guziliamparai Taluk, Dindigul District, Tamil Nadu-624703.

Thanking you

Yours faithfully

for CHETTINAD CEMENT CORPORATION PRIVATE LIMITED

V.KRISHNAN

JOINT PRESIDENT [WORKS]

Copy to:

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3. JCEE, TNPCB, Madurai, email id: tnpcbjceemdu@gmail.com

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Chettinad Cement Corporation Limited

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CHETTIAND CEMENT CORPORATION PRIVATE LIMITED Dholipatti Limestone Mines

Dholipatti, Karikkali & Palayam Villages, Guziliyampari Taluk, Dindigul District, Tamil Nadu

Six Monthly Compliance Report (Apr'21 – Sep'21)

[Mining lease area of 138.785 ha with a mining capacity of 1.40 million tons per annum]

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Chettinad Cement Corporation Private Limited Dholipatti Limestone Mines

Dholipatti, Karikkali & Palayam Villages, Guziliamparai Taluk, Dindigul, Tamilnadu -624703

Status of compliance Stipulated in Environmental Clearance (For the Period of April 2021 to September 2021)

Reference : EC granted by MoEF vide Letter No F.No.J-11015/27/2000-1A 11(M) dated

19.03.2001 for Mining lease area of 138.785 ha with a mining capacity of 1.40 million tons per annum located at Dholipatti, Karikkali & Palayam Villages, Guziliamparai Taluk,

Dindigul District, Tamilnadu - 624703

Present Status of Project : Under Operation since 24.07.2001

A. Specific Conditions:

SI. No	Specific Condition	Compliance Status
i.	OB dump should be stacked at earmarked dump site(s) only and should not be kept active for longer period.	Complied Over Burden has been stacked at earmarked dump site only. The OB dump is not kept active for longer period by using the same within the Mine Area for formation of bunds.
ii.	Top soil should be stacked properly with adequate measures at earmarked site. It should be used for reclamation and rehabilitation of mined out area.	Complied Currently there is no stock of top soil as the same had already been used up for development greenbelt. The top soil generated in future will be concurrently used for greenbelt development.
iii.	The final angle of slope of waste dump (s) should not exceed 28°. A study shall be carried out to work out to find out maximum angle of repose and report to be submitted to the Ministry of Environmental and Forests.	Complied The waste dump (mineral reject) is being stacked with proper slope (less than 28°) at earmarked location only with adequate measures like retention wall, trenches and gully plugs. The same will be used for reclaiming mined out pits. The un reclaimed pits will be left as rainwater harvesting pits. The details of maximum angle of repose as per IBM approved Mining Plan included in the EIA Report and the same had been submitted to the Regional Office of MoEF, Bangalore.

SI. No	Specific Condition	Compliance Status
iv.	Provision should be made to interlock working of dust extractor with water injection system attached to drills so that if one system fails, the other gets automatically started.	Complied Wet drilling and controlled blasting methods are being adopted to control air emissions during drilling and blasting.
V.	Information on occupational health of employees should be properly recorded and analysed. Any contractions observed especially due to exposure to dust and noise levels should be considered for corrective measures.	Complied Occupational health surveillance programme covering lung function test, audiometric, eye testing etc., being carried out on a regular basis and the records are being maintained. No abnormality has been observed so far.
vi.	The pathways presently in use in the area to be mined should be realigned so as to continue the access already available.	Not applicable as no path way exists inside the mining area.
VII.	Check dam and siltation ponds of appropriate size should be constructed to arrest silt and sediments flow from OB and minerals dumps. The water so collected should be utilized for watering the mine area, roads, green belt etc., The drain should be regularly desilted and maintained properly.	Complied Garland drains & catch drains with required gradient & size, gully plugs and sedimentation sumps (in the Mine Pits) had been provided in the Mining Lease Area to prevent solid particles getting carried away by the rainwater and collect rainwater in the mined out pits. The rainwater collected is being used for sprinkling and greenbelt development. The drains and the sedimentation sump are being regularly desilted and maintained properly.
viii.	While mining is on, regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers. Frequency of monitoring should be four times in a year – Pre monsoon (April/May), monsoon (August), Post-monsoon (November) and winter (January) seasons. Data thus collected should be submitted to the ministry of environment & Forest and Central Ground Water Board Authority.	Regular monitoring of ground water level and quality is being carried out by establishing a network of existing wells manually at suitable locations in and around plant area on quarterly basis and also by installing 2 Nos of Piezometers. The collected data's are being submitted to Ministry of Environment, Forest and Climate Change and its Regional Office, Chennai, Central Ground Water Authority and State Ground Water Board. The consolidated Ground Water quality reports (Apr'21 to Sep'21) are hereby enclosed vide Annexure 4

SI. No	Specific Condition	Compliance Status
ix.	A greenbelt of adequate width by planting the native plant species all around the ML area, roads, OB dump sites etc., should be raised in consultation with local DFO / Agriculture Department. Plantation should be not less than 500 trees / Ha.	In consultation with forest department, green belt, along the in boundary of the mines, dump sites etc., has been developed. So far 16750 Saplings (30 varieties such as Subabul, Asoka, Pungan etc.) have been planted. Total Mine Area : 138.785 ha. Area to be developed with greenbelt : 10.5 ha Greenbelt Developed Area : 10.4 ha Number of saplings planted so far : 16750 nos Green Belt Development Photos are hereby enclosed vide Annexure 5.
X.	Controlled blasting should be practiced	Complied Controlled blasting is practiced as stipulated.
xi.	Crusher should be operated with high efficiency bag filters.	Complied Crusher had been provided with high efficiency bag filters to control dust emission.
xii.	A detailed mine decommissioning plan should be submitted to the Ministry of Environment & Forest 5 Years in advance for approval.	Complied As stipulated, mine closure plan will be submitted to the Ministry of Environment Forest & Climate Change, 5 Years in advance, for approval.
xiii.	No mining should be carried out within 500m of the Bangalore – Madurai BG Railway Line.	Complied No mining is carrying out within 1000m of the Bangalore – Madurai BG Railway Line.

B. General Conditions:

S.No	General Condition	Compliance Status
i.	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forest.	Complied No change in mining technology and scope of working will be made without prior approval of the Ministry of Environment, Forest & Climate Change
ii.	No change in the calendar plan including excavation, quantum of limestone, waste / OB dumps should be made.	Complied No change in the calendar plan including excavation, quantum of limestone, waste / OB dumps will be made without prior approval from concerned authorities.

S.No	General Condition	Compliance Status
iii.	Three Ambient Air Quality Monitoring stations should be established in the core zone as well as buffer zone for SPM, RPM, SO2, NOx and CO monitoring. Location of the ambient air quality stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the state Pollution Control Board.	The Ambient Air Quality (AAQ) is being monitored manually at 8 locations through external agency on monthly basis. In addition to the above, two numbers online CAAQMS (Continuous Ambient Air Quality Monitoring Station) installed to monitor the Ambient emission levels and same is being connected to Air Care Centre, TNPCB and CEMS, CPCB. The ROA of the AAQ survey conducted by TNPCB, DIndigul on 25.10.2021 reveals that the PM ₁₀ is in the range of 38μg/m³ to 56μg/m³ which is below the prescribed limit of 100 μg/m³ and PM _{2.5} is in the range of 23μg/m³ to 34μg/m³ which is below the prescribed limit of 60μg/m³ and SO2 in the range of 17μg/m³ to 26μg/m³ and NO2 in the range of 22μg/m³ to 32μg/m³ which is below the prescribed limit of 80 μg/m³. The consolidated AAQ Monitoring reports (Apr'21-Sep'21) are hereby enclosed vide Annexure 2
iv.	Data on ambient air quality should be regularly submitted to Ministry including its Regional office at Bangalore and the State Pollution Control Board / Central Pollution Control Board once in six months.	Complied Data on ambient air quality is being regularly submitted to Ministry including its Regional office at Bangalore and Tamilnadu Pollution Control Board, Central Pollution Control Board once in six months.
V.	Adequate measures for control of fugitive emissions should be taken during drilling and blasting operations, loading and transporting of minerals etc.,	Complied Adequate measures are being taken to control fugitive emission as given below. a. Wet drilling and wetting of the places of operation b. Water Sprinkling before loading and unloading the over burden c. Water Sprinkling on the mined Limestone before loading into trucks d. Water Sprinkling on the haul roads within the mine area e. Using closed conveyors to send the Limestone to the Cement Plant f. Bag Filters at transfer points to collect dust g. Ensuring Speed Control h. Avoiding overloading i. Good maintenance of vehicles and mining machinery

S.No	General Condition	Compliance Status
vi.	Adequate measures should be taken for control of noise levels below 85 db in the work environment.	Complied Noise Control Measures like silencers for the equipment used for mining, Greenbelt along the boundary of the mine have been provided. The Mining Machinery/Vehicles used are being maintained well to ensure vibration / noise generated is well within the norms prescribed. The consolidated Noise level reports (Apr'21 to Sep'21) are hereby enclosed vide Annexure 3
VII.	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Complied Employees have been provided with Personnel Protective Equipment like helmet, safety shoes, safety goggles, dust mask etc., and use of the same is also being ensured by enhancing the safety awareness through adequate training and providing information on safety and health aspects. Occupational health surveillance programme of the employees is being undertaken periodically to find out whether any abnormality due to exposure to dust is there. Corrective measures, if needed, will be taken.
viii.	The funds earmarked for Environmental Protection measures should be kept in separate account and not diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environmental & Forests.	Complied The funds earmarked for Environmental Protection measures will not be diverted for other purpose. Year wise expenditure incurred towards Environmental Protection measures is being submitted to the Ministry of Environmental & Forests. The expenditure incurred towards Environmental Protection during 2020-21 was Rs.2.75 lakhs.
ix.	The Regional Office this Ministry located at Bangalore shall monitor compliance of the stipulated environmental safeguards. The project authorities should send one set of EIA / EMP report and mining plan to them and extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data /information / monitoring reports.	Complied Copies of EIA/EMP Report had been submitted to Regional Office of MoEF, Bangalore. Full cooperation to the officer(s) of the Regional Office will be extended by furnishing the requisite data /information / monitoring reports.

S.No	General Condition	Compliance Status
x.	The project authorities should inform to the Regional official located at Bangalore as well as to the Ministry of Environmental and Forest regarding date of financial closures and final approval of he project by the concerned authorities and the date of start of land development work.	Complied As the internally accrued funds will be invested for the proposed expansion, this part of the condition is not applicable. The date of commencing land development work informed to the Ministry.
xi.	A copy of clearance letter will be earmarked to concerned Panchayat / Local NGO, if any , from whom any suggestion / representation has been received while processing the proposal.	Complied A copy of the Environmental Clearance had been send to Gujiliyamparai Panchayat union.
xii.	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office / Tehsildar's office for 30 days	This is the responsibility of TNPCB.
xiii.	The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the state Pollution Control Board and may also be seen at website of the Ministry of Environmental & Forests at http://envfor.nic.in and a copy of the same should be forwarded to Regional office of the Ministry located at Bangalore.	Complied Advertisements in two local newspapers have been published regarding grant of Environmental Clearance and the copies of the same have also been submitted to MoEF Regional office at Bangalore.
xiv.	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Noted and the additional condition stipulated will also be complied with.

S.No	General Condition	Compliance Status
XV.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance.	Guideline Noted.
xvi.	The above conditions shall be enforced, Inter-alia under the provisions of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules. 2008 and the Public (Insurance) Liability, Act.1991 along with their amendments and rules.	Guideline Noted.

for **CHETTINAD CEMENT CORPORATION PRIVATE LIMITED**

V.KRISHNAN

JOINT PRESIDENT [WORKS]



(Dholipatti Limestone Mines)

Ambient Air Quality Data (PM_{10} , $PM_{2.5}$, $SO_2 \& NO_X - \mu g/Nm^3$) from April'2O21 to September'2O21

Month		Jnion C tukallat				Mr.Muniyappan House at Kolichivadi (North East)				Mr.Kutti house at mochanaikkanur (East)				Security (South		y Gate	Permissible Limit			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀		SO ₂	NO ₂		PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
Apr-21	59.3	27.8	11.0	21.7	56.4	24.7	9.1	20.8	59.6	26.5	10.0	21.1	59.3	28.2	10.5	22.2				
May-21	56.3	26.8	9.2	19.7	57.4	25.7	10.9	21.8	56.6	28.5	11.0	23.1	58.3	27.2	10.7	24.6				
Jun-21	55.8	21.6	8.2	20.1	56.1	22.4	8.5	20.2	55.4	23.8	9.2	20.0	56.1	23.0	9.5	18.8				
Jul-21	58.4	28.1	8.6	21.4	56.2	26.8	9.4	20.6	57.0	27.6	9.8	22.6	59.9	29.1	10.1	23.4				
Aug-21	54.1	27.4	9.2	20.3	57.4	25.9	8.9	21.3	58.3	26.1	9.6	20.9	58.1	28.5	10.7	22.5	100	60	80	80
Sep-21	56.5	28.0	10.2	21.5	55.8	24.5	9.2	20.2	53.2	27.2	9.8	22.4	54.9	25.9	8.7	18.9				
Max	54.1	21.6	8.2	19.7	55.8	22.4	8.5	20.2	53.2	23.8	9.2	20.0	54.9	23.0	8.7	18.8				
Min	59.3	28.1	11.0	21.7	57.4	26.8	10.9	21.8	59.6	28.5	11.0	23.1	59.9	29.1	10.7	24.6				
Avg	56.7	26.6	9.4	20.8	56.6	25.0	9.3	20.8	56.7	26.6	9.9	21.7	57.8	27.0	10.0	21.7				

Month		ar CEPI mittipa				Perapankoundampati village (South West)				kanakupillaiyur Village (West)				armalin lipatti (N	_		Permissible Limit			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
Apr-21	59.4	25.4	9.1	19.7	59.1	26.9	10.0	21.7	57.3	27.2	8.7	19.9	59.8	26.4	10.5	21.7				
May-21	56.4	27.4	8.1	20.7	57.1	28.9	9.8	19.4	55.9	27.6	9.2	18.9	54.2	27.4	10.5	21.6				
Jun-21	55.8	23.0	8.6	19.6	55.7	23.2	8.0	19.8	56.1	24.5	9.2	20.1	55.O	24.8	9.4	20.5				
Jul-21	52.7	27.4	10.6	21.4	54.1	26.8	8.4	20.3	58.0	25.1	10.6	21.8	56.1	28.4	11.2	23.4				
Aug-21	54.6	25.1	9.7	19.6	53.8	24.1	8.8	19.0	56.9	25.8	9.0	20.3	58.7	27.4	10.1	22.3	100	60	80	80
Sep-21	56.2	26.5	9.0	20.6	54.5	25.3	9.7	21.6	57.8	27.5	10.4	22.5	54.2	24.3	10.6	18.6				
Max	52.7	23.0	8.1	19.6	53.8	23.2	8.0	19.0	55.9	24.5	8.7	18.9	54.2	24.3	9.4	18.6				
Min	59.4	27.4	10.6	21.4	59.1	28.9	10.0	21.7	58.0	27.6	10.6	22.5	59.8	28.4	11.2	23.4				
Avg	55.9	25.8	9.2	20.3	55.7	25.9	9.1	20.3	57.O	26.3	9.5	20.6	56.3	26.5	10.4	21.4				

for Chettinad Cement Corporation Private Limited

V.Krishnan

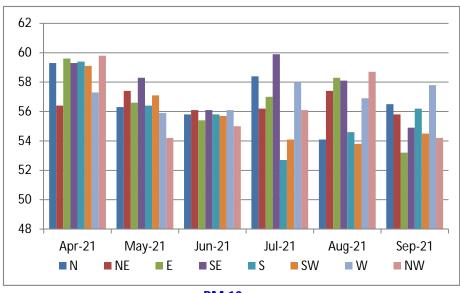
Joint President[works]

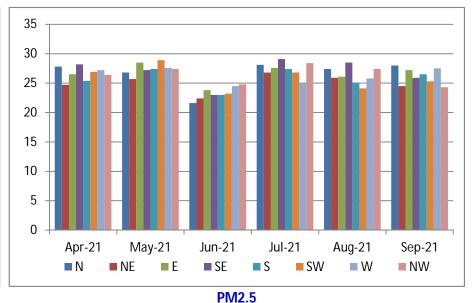




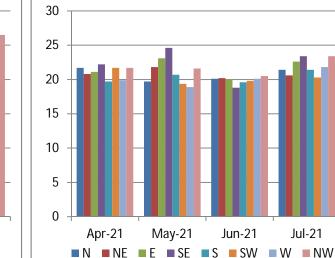
(Dholipatti Limestone Mines)

Trend Graph - Ambient Air Quality Data from April'2021 to September'2021





PM 10



12 10 8 6 4 2 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Sep-21 ■ NE ■ E ■ SE **S** SW W NW \blacksquare N

SO2

NO₂

Jul-21

Aug-21

Sep-21



(Dholipatti Limestone Mines)

Ambient Noise Level Data [dB(A)] from April'2021 to September'2021

Month	Union Office at Mettukallathur (North)		House at Kolichivadi (North East)		Mr.Kutti house mochanaikkanur (East)		Near Security railway Gate (South East)		office at komittipati (South)		Perapankounda mpati village (South West)		kanakupillaiyur Village (West)		Mr.Dharmalingam House at dholipatti (North West)		Permissible Limit	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
Apr-21	51.4	41.7	52.2	42.6	51.7	41.8	52.0	42.1	52.2	42.2	52.9	41.9	52.4	42.2	51.1	42.3		
May-21	51.0	41.7	51.8	42.6	52.4	42.8	51.4	42.1	51.7	41.2	52.7	42.3	52.6	42.8	50.8	42.7		
Jun-21	51.2	42.2	52.4	41.5	52.1	42.2	52.2	42.2	52.1	42.4	51.8	42.5	51.9	42.7	51.8	42.3		
Jul-21	50.1	42.8	51.7	41.4	52.6	42.9	52.1	42.9	52.4	43.2	51.9	43.8	50.8	44.1	51.8	41.7		
Aug-21	52.4	42.3	52.2	42.5	51.6	41.9	52.2	42.6	52.2	42.4	52.0	41.7	52.1	42.1	51.9	42.4	55	45
Sep-21	53.0	41.8	51.8	42.4	52.2	42.3	53.0	43.0	51.7	42.8	52.3	42.7	51.8	42.1	53.0	42.0		
Max	53.0	42.8	52.4	42.6	52.6	42.9	53.0	43.0	52.4	43.2	52.9	43.8	52.6	44.1	53.0	42.7		
Min	50.1	41.7	51.7	41.4	51.6	41.8	51.4	42.1	51.7	41.2	51.8	41.7	50.8	42.1	50.8	41.7		
Avg	51.5	42.1	52.0	42.2	52.1	42.3	52.2	42.5	52.1	42.4	52.3	42.5	51.9	42.7	51.7	42.2		

Source Noise Level Data [dB(A)] from April'2021 to September'2021

		Source Moise Leve	i Data [ub(A)] ITOIII Ap	Til 2021 to September 202		
Month —	Cru	isher Area	Garage - \	Permissible Limit		
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Apr-21	66.7	42.8	54.8	42.6		
May-21	65.3	43.3	54.7	42.2	1	
Jun-21	64.5	44.5	40.7	41.0	7	
Jul-21	67.4	42.4	51.9	43.4	1	
Aug-21	68.3	44.2	60.8	41.2	75	70
Sep-21	69.1	42.1	61.7	43.5	7	
Max	69.1	44.5	61.7	43.5	1	
Min	64.5	42.1	40.7	41.O	1	
Avg	66.9	43.2	54.1	42.3	1	

for Chettinad Cement Corporation Private Limited

V.Krishnan

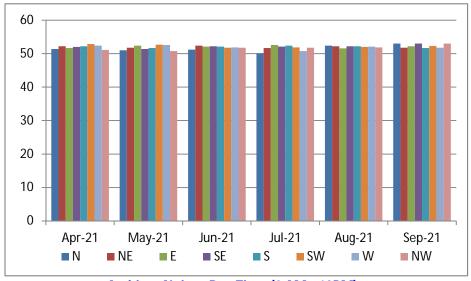
Joint President[works]



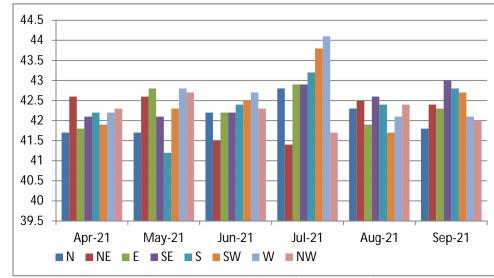


(Dholipatti Limestone Mines)

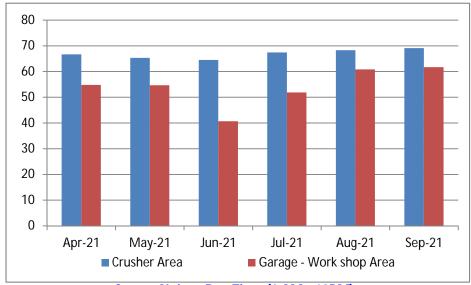
Trend Graph - Noise Level Data from April'2021 to September'2021



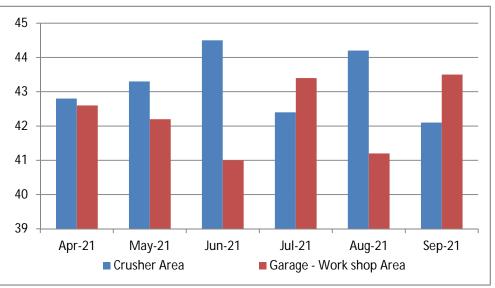
Ambinet Noise - Day Time (6 AM - 10PM)



Ambient Noise - Night Time (10PM - 6AM)



Source Noise - Day Time (6 AM - 10PM)



Source Noise - Night Time (10PM - 6AM)



(Dholipatti Limestone Mines)

Ground Water Quality Data from April'2021 to September'2021

		Ground Water Quality Data from April 2021 to September 2021									
Sr.	Sr. Parameter		Karikkal	i Village	Dholipat	ti Village		am Village	Palayam	Village	Acceptable
No			Jun-21	Sep-21	Jun-21	Sep-21	Jun-21	Sep-21	Jun-21	Sep-21	Limit
I. Phy	sical Examination										
1	Appearance	-	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
2	Colour, Hazen Units	-	2	2	2	2	2	2	2	2	15
3	Odour	-	3							Agreeable	
4	pH value	-	7.62	7.14	7.76	7.54	7.10	7.21	701	7.32	6.5-8.5
5	Turbidity	NTU	0.10	0.20	0.20	0.40	0.10	0.10	0.10	0.10	5
6	Total dissolved Solids	mg/l	610	644	630	611	680	658	710	626	2000
	7 Total suspended Solids mg/l BDL (DL : 2.0)									-	
-	emical Examination	/1	NIII	NIII	NIII	NIII	NIII	NIII	NIII	NIII	
9	ph.Alkanity as CaCO ₃ Total Alkanity as CaCO ₃	mg/l	NIL 82	NIL 102	NIL 78	NIL 80	NIL 92	NIL 111	NIL 104	NIL 98	-
	-	mg/l						111			600
10	Total Hardness as CaCO ₃	mg/l	304	316	353	330	363	380	372	298	600
11	Calcium Hardness as CaCO3	mg/l	186	190	225	181	235	210	255	200	-
12	Magnesium Hardess as CaCO3	mg/l	118	126	128	149	128	170	117	98	
13	Calcium as Ca	mg/l	74	76	90	72	94	84	102	80	200
14	Magnesium as Mg	mg/l	28	30	31	36	31	41	28	24	100
15	Sodium as Na	mg/l	96	102	80	102	98	97	101	100	-
16	Iron as Fe	mg/l	0	0	0	0	0	0	0	0	0.3
17	Silica as SiO2	mg/l	18	16	29	20	21	29	19	26	-
18	Manganese as Mn	BLQ(LOQ:0.001)							0.3		
19	Free Ammonia as NH ₃	mg/l	BDL(DL:0.03)							0.5	
20	Nitrite as NO2 mg/l BDL(DL:0.01)							-			
21	Nitrate as NO3	mg/l	14	17	22	19	24	26	23	14	45
22	Chloride as Cl	mg/l	121	124	146	130	152	166	161	140	1000
23	Fluride as F	mg/l	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.5
24	Boron as B	mg/l	mg/I BLQ(LOQ:0.001)						1		
25	Copper as Cu								1.5		
26	Free residual chlorine							1			
27	Mineral Oil	mg/l	BLQ(LOQ:0.5)							0.5	
28	Sulphate as SO4	mg/l	106	115	164	130	148	160	142	135	400
29	Selenium as Se	mg/l		_		BLQ(L	OQ:0.001)		•	-	0.05
30	Anionic detergents as MBAS	mg/l	5							-	
31	Prieriolic Compound as	mg/l								0.001	
32	C H OH Cadmium as Cd	mg/l							0.003		
33	Cyanide as CN	mg/l	mg/I BDL(DL:0.01)							0.05	
34	Lead as Pb	mg/l	mg/I BLQ(LOQ:0.001)							0.01	
35	Mercury as Hg	mg/l	mg/I BLQ(LOQ:0.0005)							0.001	
36	Total Arsenic as As	mg/l	mg/I BLQ(LOQ:0.001)						0.05		
37 Total Chromium as Cr mg/l BLQ(LOQ:0.001)								0.05			
III. Bacteriological Examination											
38	Total Coliform	-				Abser	nt / 100ml				Absent /100ml
BDL : Below Detectable Level, LOQ : Limit of Quantification, BLQ :Below Quantitication Limit											

for Chettinad Cement Corporation Private Limited

V.Krishnan

Joint President[works]





KARIKKALI WORKS /DLM

CHETTINAD CEMENT CORPORATION PRIVATE LTD, KARIKKALI WORKS DHOLIPATTI LIME STONE MINES GREEN BELT DEVELOPMENT PHOTOS

Green Belt Developed area : 10.40 ha

So far, total no. of tree planted : 15388 nos as on 30.09.2021

1. Mines Office Back Side

Latitude : 10°71′54.31″ N Longitude : 78°10′71.08″ E















2. Mines Office & Magazine area Latitude : 10 °71'52.69" N Longitude : 78°10'69.21"E



















3. Crusher Area

Latitude : 10°71'31.41" N Longitude : 78°10'98.78" E



















4. Mines Area:

Latitude : 10°71'35.36" N Longitude : 78°11'14.21" E



















5. Canteen Area:

Latitude : 10°71'49.17" N Longitude : 78°10'85.96" E

















for CHETTINAD CEMENT CORPORATION PRIVATE LIMITED

V-Donas.

V.KRISHNAN JOINT PRESIDENT [WORKS]

