

Chettinad Cement/Tamilnadu/ Unjini Mine /EC Compliance/Apr '2020 - Sep'2020/2020 / 195

27th Nov, 2020

The Director Regional Office [SEZ] Ministry of Environment, Forest and Climate Change, Gol, #34, HEPC Campus, Cathedral Garden Road Nungambakkam, Chennai -600 034

Sir,

Sub: Submission of Six Monthly Environmental Clearance Compliance & Environmental Monitoring Reports (Apr '2020 - Sep'2020) - Unjini Limestone Mine (20.965 ha) of Chettinad Cement Corporation Private Limited at Unjini Village, Ariyalur Taluk & District, Tamilnadu – Expansion of capacity from 0.012 to 0.30 million tons per annum

Ref: Environmental Clearance granted by SEIAA, Tamilnadu vide Letter No SEIAA/TN/EC/1(a)/03/F-307/2012 dated 24.09.2012 for expansion of Mining Capacity.

We enclose herewith the Six Monthly Environmental Clearance Compliance & Environmental Monitoring Reports, as detailed below, pertaining to the expansion of Mining Capacity of Unjini Limestone Mine from 0.012 to 0.30 million tons per annum, within the same Mining Lease Area of 20.965 ha, located at Unjini Village, Ariyalur Taluk & District, Tamilnadu, for the period from Apr '2020 - Sep'2020.

- 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

Yours faithfully

for Chettinad Cement Corporation Private Limited

M. Sundaramoorthy

Joint President (Works)

Copy to:

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

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Chettinad Cement Corporation Private Limited Unjini Limestone Mine

Unjini Village, Ariyalur Taluk & District, Tamilnadu

Environmental Clearance (EC) Compliance Report (April-20 to September-20)

(EC granted by SEIAA, Tamilnadu vide Letter No : SEIAA/TN/EC/1(a)/03/F-307/2012 dated 24.09.2012 for the expansion of Mining Capacity from 0.012 to 0.3 million ton per annum & Mining Lease Area of 20.965 ha)

A. Specific Conditions

S.No	Specific Condition	Compliance Status
i.	The proponent shall commence the mining operation only after submitting the certified compliance report of the earlier environmental clearance from the Regional Office, MoEF, Bangalore.	Mining operation commenced after obtaining Consent for Operation (CFO) from Tamilnadu pollution Control Board (TNPCB) on 18.02.2013. Prior to getting CFO from TNPCB, the certified compliance report of the earlier Environmental Clearance from the Regional Office, MoEF, Bangalore submitted to MoEF, Delhi on 20.02.2012.
ii.	The project proponent shall obtain Consent to Establish & Consent to Operate from the TNPCB and effectively implement all the conditions stipulated therein.	Consent for Establishment (CFE) from TNPCB obtained on 18.12.2012.
III.	Scheduled species of fauna found in the area shall be monitored closely and a plan shall be prepared and implemented for their conservation.	There is no Ecologically Sensitive Area/
iv.	The Effective safeguard measures shall be taken to control particulate dust level in critical areas, transfer points and the haul road.	Adequate measures are being carried out to control particulate dust level as given below. a. Water Sprinkling before loading and unloading the top soil and over burden b. Water Sprinkling while handling materials containing finer particles c. Covering of materials with tarpaulin

S.No	Specific Condition	Compliance Status
		before commencement of transport d. Speed Control e. Avoiding overloading f. Good maintenance of vehicles and mining machinery There are no transfer points as no
V.	Mine working shall be restricted up to above water label. At no point of time, the mine working should intersect ground water. For working below water table, necessary prior permission shall be obtained from MoEF for which clearance from CGWA for pumping of ground water table and detailed hydro-geological study will be a pre-requisite.	Mine working restricted above water label. At no point of time, the mine working intersected ground water. However, in case, there is a need to work below the ground water table in future, necessary prior permission will be obtained from MoEF & CC and Water Resources Department, Tamilnadu. The clearance from Water Resources Department, Tamilnadu for pumping of ground water and detailed hydrogeological study will be ensured prior to getting clearance.
vi.	Prior permission from competent authority for extraction of ground water shall be taken. Report of CGWA on intersection of ground water table shall be furnished.	The mine requires around 20 m³ of water/day for domestic purpose, dust suppression and greenbelt development Rainwater collected in the Mine Pit is being used and no ground water is drawn. In case, any need arises to use ground water, the required prior permission will be obtained from the Water Resources Department, Tamilnadu, the authority for granting permission to use ground water. However, application submitted to obtain permission from Water Resources Department, Tamilnadu for using rain water harvested in Mine Pit. No intersection of ground water table is envisaged. Hence, the need to furnish a report on ground water intersection is not envisaged.
vii.	Garland drains, catch drains, Check dams and siltation ponds of appropriate size shall be constructed around the mine	Garland drains/catch drain has been constructed for the top soil & over burden dumps and mine. The rainwater is diverted

S.No	Specific Condition	Compliance Status
	working, soil and mineral dumps to prevent run off of water and flow of sediments. The water so collected shall be utilized for watering mine area, roads, green belt development etc. The drains shall be regularly de silted, particularly after the monsoon and maintained properly.	and collected in the sump at the bottom most bench of the Mine Pit. The water collected, after settling, is being utilized for domestic purpose, dust suppression and green belt development. The mined Limestone not stored in Mining Lease area.
		The garland drains/catch drains are being desilted at regular intervals, particularly after the monsoon and are being maintained properly.
viii.	Dimension of the retaining wall at the toe of the OB benches within the mine to check run off and siltation should be based on the rainfall data.	The rainwater is diverted through garland drains/catch drains to Mine Pit Sump. As the rain water is collected in the Mine Pit, Sump there is no possibility of run off from the Mine Pit.
ix.	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 1.5 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.	The details of greenbelt development carried out in consultation with the local DFO/Agriculture Department in the ML area are given below. ML area :20.965 ha Recommended greenbelt area :1.5 ha Saplings planted so far : 16300 Extent of existing greenbelt area : 8.15 ha Area covered with greenbelt : Dumps, bunds along the ML boundary Tree Density :2000 /ha Saplings Planted a. Neem b. Pongan c. Vembu d. Pouvarasa e. Illupai f. Teak g. Tamrind Greenbelt Development Plan Greenbelt development is being carried out progressively. Herbs and shrubs will also be developed.
х.	The project authority shall implement suitable conservation measures including	

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	suitable rain water harvesting measures to augment ground water resources in the area in consultation with Regional Director, Central ground water board.	bottom most bench of the Mine Pit. The rain water collected is being used for dust control in haul roads, Greenbelt development and domestic purpose. The water stored in the sump itself helps to
xi.	Regular monitoring of ground water level and quality shall be carried out in and around mining lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The periodic monitoring atleast four times in a year-	augment ground water recharge.
	pre-monsoon(April-May) Monsoon(August),Post Monsoon (November) and Winter(January); once in each season shall be carried out in consultation with state Ground water board /Central ground water authority and the data thus collected may be sent regularly to the ministry of environment and forests and its regional office, Bangalore ,central ground water authority and the regional director , central ground water board. If at any stage ,it is observed that the ground water table is getting depleted due to the mining activity; necessary corrective	Ground water Board. If at any stage, if we observe that the ground water table is getting depleted due to the mining activity, necessary corrective measures will be carried out.
xii.	measures shall be carried out. 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 with in the lease area. The mineral transportation with in the mining lease shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	checked at the entry point for Pollution Under Control Certificate. Regular maintenance of vehicles used in mining operations and in transportation of minerals is being ensured. The material is being covered with tarpaulin, before commencement of transportation. The
xiii.	The optimum charge for blasting shall be determined based on vibration study.	adopted. There is no drilling & blasting are involved. Hence, this condition is not available.

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	fly rocks and boulders should be implemented.	
xiv.	Drills shall either be operated with dust extractors or equipped with water injection system.	Non conventional mining system is adopted. There is no drilling involved. Hence, this condition is not available.
XV.	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should have efficient dust control arrangements. These should be properly maintained and operated.	Water sprinkling is being carried out to suppress the dust at material handling area & loading and unloading areas. As there are no conveyors, no transfer points are available.
xvi.	The company shall stress upon the preventive aspects of occupational health.	Awareness Programme on Occupational Health, Diseases and Safety measures are being conducted on regular basis.
		The types of training programme conducted include a. Induction Training b. Job specific Training covering health and safety aspects c. Refresher Training Required Personal Protective Equipment (PPE) are made available to the employees
		and usage of the same also being ensured. Periodical Occupational health surveillance is being undertaken to observe any abnormality and take corrective measures, if needed.
xvii.	Pre placement medical examination and periodical examination of the workers engaged in the project shall be carried out and records to be maintained. For the purpose, Schedule of health examination of the workers should be drawn and	Pre-placement medical examination and periodical medical examination of the workers engaged in the project are being carried out and records are also being
	followed accordingly.	Prepared Schedule of health examination of the workers is being followed.
xviii.	Provision shall be made for the housing of construction labour within the site with	

S.No	Specific Condition	Compliance Status
	all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care etc. The housing may be in the form of the temporary structures to be removed after the completion of the project.	requirement of construction labourers housing facilities.
xix.	The critical parameter such as RSPM (particulate matter with size less than 10 10 10 10 10 10 10 10 10 10 10 10 10	The domestic effluent generated is being treated in septic tank, followed by dispersion trench. As there is no generation of effluent from mining, no discharge of effluent from Leasehold is envisaged. Hence, the need to monitor effluent is not envisaged.
XX.	The company shall submit within 3 months their policy towards Corporate Environment Responsibility which should Inter alia i) Standard operating process /procedure to bring in to 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.	Policy (CEP) and the salient features of the CEP submitted to MoEFCC, Delhi and the Regional Office of MoEFCC, Chennai.
xxi.	A final Mine closure plan along with details of corpus fund, shall be submitted to the ministry of Environment and	details of Corpus Fund will be submitted

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	Forest 5 years in advance of final mine closure for approval.	to the final mine closure for approval.
xxii.	Depth of water table of the wells located inside the mining area and monitoring wells located around the monitoring area shall be furnished.	There is no well inside the ML Area. Two piezometers received and the same will be installed to monitor ground water level. The monitored data will be submitted to MoEF & CC, Chennai.
xxiii.	Green belt shall be developed in an area of 2.565 Ha as per the condition of environmental clearance issued on 11.3.2005. This is in addition to green belt development in an area of not less than 1.50 ha under the current Environmental clearance.	Greenbelt has been developed over an area of 8.15 ha, planting 16300 saplings.

Part B - General Conditions

S.No	General Condition	Compliance Status
i.	No change in mining technology and scope of working shall be made with out prior approval of the SEIAA.	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 calendar plan including excavation, quantum of mineral, Limestone and waste shall be made.	No change in calendar plan including excavation, quantum of mineral, Limestone ore and waste will be made without prior approval of the concerned authority.
III.	Monitoring of well water level and 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 Officer, Bangalore and Ministry Of Environment and Forest, Government of India.	Ground water quality around the Mine area monitored on a quarterly basis as stipulated and the results are submitted to the Regional Officer of MoEF & CC, Chennai and Ministry Of Environment and Forest, Government of India.
iv.	The proponent shall conduct Ambient Air Quality Monitoring Survey once in 6 months in the locations furnished in the EIA report and furnish the report to Regional Office ,Bangalore and Ministry of Environment and Forests ,Government of India	12 22 23
٧.	Atleast four ambient air quality - monitoring stations shall be established in the core zone as well as in the buffer zone for RSPM (particulate matter with less than 10 micron) and NOx monitoring.	Four Ambient Air Quality Monitoring Stations has been established in the core zone and the buffer zone for monitoring PM _{2.5} & PM ₁₀ and NOx and SO ₂ in the ambient air in consultation with Tamilnadu Pollution Control Board. Monthly

S.No	General Condition	Compliance Status
	Location of the stations should be decided based on meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with State Pollution Control Board.	
vi.	Data on ambient air quality RSPM (particulate matter with size less than tomicron ie ,PM ₁₀) should be regularly submitted to the Ministry including its Regional Office located at Bangalore and SPCB/CPCB once in six months.	Chennai, TNPCB and CPCB once in six
vii.	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.	to control fugitive emission as given below.
viii.	Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM,etc should be provided with ear plugs /muffs.	
ix.	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to confirm to the standards prescribed	generate any waste water. Hence, the

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	under GSR 422(E) Dated 19/05/1993 and 31/12/1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	trap is not envisaged.
x.	Personnel working in dusty areas shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures if needed.	Personnel working in the mine are given adequate training, information on safety and health aspects and the employees are provided with required Personal Protective Equipment (PPE).
xi.	A separate environment management cell with suitably qualified personnel shall be setup under the control of Senior Executive, who will report directly report to the Head of organization.	A separate Environmental Cell is available to take care of EHS function and the Head of the Cell is directly reporting to the Head of the Organization for complying with environmental regulations and implementing pollution control measures.
xii.	The Funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bangalore.	DESCRIPTION OF THE STREET, STR
xiii.	The Project Authority shall inform to the Regional Office located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and date of start of land development work	invested, the requirement of informing the date of financial closures and final approval of the project to the Regional
		development work had been informed to the Regional Office of MoEF, Bangalore.
xiv.	The Regional office of this ministry located at bangalore shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer(s) of the Regional office by furnishing the requisite data/information/monitoring reports.	Regional Office of MoEF & CC, Chennai will be extended by furnishing the requisite data / information / monitoring reports

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xv.	The project proponent shall submit six monthly reports on the status of compliance of the stipulated Environmental clearance conditions including results of monitored data(both in hard copies as well as by e-mail) to the MoEF, its Regional office Bangalore, the respective Zonal office of CPCB and SPCB. The proponent shall upload the status of compliance of 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, Bangalore, the respective Zonal office of CPCB and SPCB.	compliance of the stipulated environmental clearance conditions and the results of monitored data are being submitted to the MoEF & CC, its Regional Office at Chennai, the Zonal Office of Central Pollution Control Board, Bangalore and the Tamilnadu Pollution Control Board.
xvi.		letter submitted to local Panchayat on 15.10.2016 and a copy of the same displayed in the website of the company.
xvii.	The SPCB should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector Office/Tehsildar's office for 30 days.	
xviii.	The project authorities shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned with in 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of clearance letter is available with SPCB and also at the website of the MoEF at http://envfor.nic.in and a copy of the same should be forwarded to Regional Office of this Ministry located at Bangalore.	one in English and the other in Tamil, published informing the public that the project has been accorded environmental clearance and copies of clearance letter are available with the TNPCB and also can be seen at website of the MOEF at http://envfor.nic.in The copies of advertisement submitted to Regional Office of MoEF, Bangalore.

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xix.	The environmental clearance is valid for 10 years from the date of issue.	Noted.
xx.	The environmental clearance is being issued without prejudice to the action initiated under Environmental (protection) Act ,1986 or any court case pending or any other court order shall prevail.	
xxi.	The SEIAA,TN may alter/modify the above conditions or stipulate any further condition in the interest of environmental	Noted.
xxii.	Protection. 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	- := :-
xxiii.	The above conditions will be enforced inter alia under the provisions of the Water (Prevention and control of Pollution) Act, 1974,the Air (Prevention and control of Pollution) Act, 1981,the Environment Protection Act 1986 and Public Liability Insurance Act,1991 along with their amendments and rules made there under and also any other orders passed by the Honorable Supreme court of India/HIgh court of chennai and other court of law relating to the subject matter.	
xxiv.	The environmental statement for each financial year ending 31 st march in FORM -V as is mandated to be submitted by the project proponent to the concerned SPCB as prescribed under the Environmental (Protection) Rules 1986 as amended subsequently shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Office of the MoEF, Bangalore by E-mail.	financial year ending 31 st March 2020, in Form - V, has been submitted on 16.09.2020 to the Tamilnadu Pollution Control Board and the Regional Officer of the Ministry of Environment, Forest & Climate Change, Chennai. The same has been put on the website of the company and also sent to the Regional Officer of the Ministry of

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xxv.	Any appeal against this environmental clearance shall lie with National Green Tribunal, if preferred with in a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010	

for Chettinad Cement Corporation Private Limited

M. Sundaramoorthy
Joint President

Joint President (Works)

Chettinad Cement Corporation Private Limited -Unjini Limestone Mine

Unjini Village, Ariyalur District, Tamilnadu State

Ambiant Air Quality Monitoring- Consolidated Report (Apr'2020 - Sep'2020)

S.No	Location	PM ₁₀ (μg/m³)		$PM_{2.5}(\mu g/m^3)$			SO ₂ (µg/m ³)			NOx (µg/m³)			
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	Near Mines Office	48.7	46.3	47-5	24.9	18.7	21.8	6.0	5.6	5.8	15.3	14.5	14.9
2	Near Haul Road	48.6	46.3	47.5	22.4	20.0	21.2	5.7	5.4	5.6	15.8	15.1	15.4
3	Unjini Village	42.5	39.0	40.8	21.2	15.0	18.1	6.8	5.2	6.0	14.0	12.8	13.4
4	Nathampalayam Village	40.1	39.5	39.8	18.7	16.2	17.5	6.4	5.8	6.1	12.7	12.5	12.6
5	Elagaicherry village	38.6	38.6	38.6	17.5	17.5	17.5	5-7	5-7	5.7	12.2	12.2	12.2
6	Rayampuram village	35.9	35.9	35.9	15.0	15.0	15.0	5.4	5-4	5-4	11.3	11.3	11.3
7	Sendurai village	47.6	47.6	47.6	23.7	23.7	23.7	6.8	6.8	6.8	15.1	15.1	15.1
8	Maruvathur village	41.5	41.5	41.5	20.0	20.0	20.0	5.6	5.6	5.6	13.1	13.1	13.1
Norm		100 µg/m³			6ο μg/m³			8ο μg/m³			80 µg/m³		

for Chettinad Cement Corporation Private Limited

M Sundaramoorthy Joint President (Works)

	Chettina	d Cement Co	rporation	Private Limite	ed -Unjini Lir	nestone Min	ie		
72		Unjini Vill	age , Ariya	ılur District, Ta	amilnadu Sta	te			
	Noise Le	evel Monitori	ng- Conso	lidated Repor	t (Apr'2020 t	to Sep'2020)		
	Location	UoM		Day		Night			
S.No			L _{min}	L _{max}	L _{eq}	L _{min}	L _{max}	L _{eq}	
		- V	Withir	the Premises	,				
1	Mine Office	dB(A)	50.6	56.5	53-5	42.3	53.0	47-7	
2	Loading Area	dB(A)	52.2	60.1	56.2	42.4	46.4	44.4	
	Limit (L _{eq})	dB(A)		85			85		
C No.	Location	UoM		Day		Night			
S.No			L _{min}	L _{max}	Leq	L _{min}	L _{max}	L _{eq}	
			Outsid	e the Premise	s				
1	Nallampalayam Village	dB(A)	43.0	49.7	46.4	34-7	45.4	40.1	
2	Elangaicheri Village	dB(A)	43.8	48.4	46.1	34.1	45-5	39.8	
	Limit (L _{eq}) dl			55		45			

for Chettinad Cement Corporation Private Limited

M Sundaramoorthy
Joint President (Works)

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	Ground /Surface W	ater Qualit	GW 1	GW 2		
S. No	Parameter	UoM -	Aug-20	Aug-20	SW 3 Aug-20	Limit
1	pH	25	8.07	7.87	7.78	5.5 - 9.0
2	Temperature	Deg C	28	29	27	40
3	Particle size for TSS	-	100%	100%	100%	Shall pass 850 micron Sieve
4	TSS	mg/l	1	1	6	100
5	TDS	mg/l	498	442	468	2100
6	Chloride as Cl	mg/l	48	78	32	1000
7	Sulphide as S	mg/l	BLQ	BLQ	BLQ	2
8	Sulphate as SO4	mg/l	58	52	60	1000
9	Fluride as F	mg/l	BDL	BDL	0.1	2
10	Sodium	mg/l	44	48	20	
11	Copper	mg/l	BLQ	BLQ	BLQ	3
12	Zinc as Zn	mg/l	BDL	BDL	BDL	1
13	Phenolic compounds as C ₆ H ₅ OH	mg/l	BLQ	BLQ	BLQ	1
14	Oil & Grease	mg/l	BLQ	BLQ	BLQ	10
15	Boron as B	mg/l	BLQ	BLQ	BLQ	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	BLQ	BLQ	0.2
20	Cadmium as Cd	mg/l	BLQ	BLQ	BLQ	2
21	Total Chrominum as Cr	mg/l	BLQ	BLQ	BLQ	2
22	Hexavalant Chrominum	mg/l	BLQ	BLQ	BLQ	0.1
23	Lead as Pb	mg/l	BLQ	BLQ	BLQ	0.1
24	Selenium as se	mg/l	BLQ	BLQ	BLQ	0.05
25	Mercury as Hg	mg/l	BLQ	BLQ	BLQ	0.01
26	Pesticides	mg/l	BLQ	BLQ	BLQ	
27	Free Ammonia as NH ₃	mg/l	BLQ	BLQ	BLQ	5
28	Dissolved Phosphate as P	mg/l	BLQ	BLQ	BLQ	5
29	Total Kjeldahl Nitrogen as N	mg/l	BLQ	BLQ	BLQ	100
30	Cyanide as CN	mg/l	BLQ	BLQ	BLQ	0.2
31	Nickel as Ni	mg/l	BLQ	BLQ	BLQ	3
W 1:1	Nallampalayam Village	ut 2000 ar				
	Unjini Village	BLQ: Below Qualification Limit.				
W 3:	Mine Sump Water	BDL : Below Detectable Level				

for Chettinad Cement Corporation Private Limited

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Joint President (Works)