



Dr. JAYANTHI. M, I.F.S
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY – TAMIL NADU
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road, Saidapet,
Chennai-15.
Phone No.044-24359973
Fax No. 044-24359975

ENVIRONMENTAL CLEARANCE

Lr.No.SEIAA-TN /F.No.6283/ALR/1 (a)/EC – 4020/2019 dated: 19.08.2019

To,

M/s. Chettinad Cement Corporation Private Limited
4th Floor, Rani Seethai hall Building,
603, Anna Salai
Chennai-600 006.

Sir,

Sub: SEIAA, TN – Environmental Clearance for Periyathirukkonam Limestone mine over an extent of 32.295 Ha for the proposed peak production of 0.5004 million tonnes of Limestone & Marl/Annum at S.F.No. 153/16, 153/17, 153/18, 153/19, 153/20, 160/11, 160/12, 160/13A, 160/13B, 160/13C, 161/4B, 161/5, 161/6, 161/7, 161/8, 161/9, 161/10, 161/15, 162/1, 162/2, 162/3A, 162/3B, 162/4A, 162/6A, 162/6B, 162/6C, 162/7, 162/8, 162/9, 162/10, 162/11A, 162/11B, 163/1, 163/2A, 163/2B, 163/2C, 163/3, 163/4, 163/5, 163/6, 163/9, 163/10, 163/11, 163/12A, 163/12B, 163/12C, 163/13, 163/14, 163/15, 163/16, 163/17, 163/18, 163/19, 163/20A, 163/20B, 163/20C, 163/21, 163/22, 163/23, 163/24, 163/25, 163/26, 163/27, 164/1A, 164/1B, 164/1C, 164/2A, 164/2B, 164/2C, 164/3, 164/4, 164/5, 164/6, 164/7, 164/8A, 164/8B, 164/9A, 164/9B, 164/10A, 164/10B, 164/10C, 164/11A, 164/11B, 164/12A, 164/12B, 164/12C, 164/12D, 164/12E, 164/12F, 164/13A, 164/13B, 164/14A, 164/14B, 164/15A, 164/15B, 164/15C, 164/16A, 164/16B, 164/16C, 164/16D, 164/16E, 164/16F, 165/1, 165/2, 165/3A, 165/3B, 165/3C, 165/3D,



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Ref: 1.Your application EC dated: 10.02.2017

2. Lr.No.SEIAA-TN/F.No.6283/M-XCIV/TOR-287/2017 dated: 11.09.2017

3. Lr.No.SEIAA-TN/F.6283/M-XCIV/ToR-287/A/2017 dated: 11.05.2018

4. Public Hearing Conducted by TNPCB vide Lr.No.T2/TNPCB/F.27245/ARY/
PH/2018 dated: 15.10.2018

5. Date of EIA Report submission 17.12.2018

6. Minutes of the 124th SEAC Meeting held on 04.01.2019

7. Proponent reply dated: 30.05.2019

8. Minutes of the 131st SEAC Meeting held on 18.07.2019

9. Minutes of the 352nd SEIAA Meeting held on 19.08.2019

- I. This has reference to your application for Environmental Clearance to SEIAA-TN dated 17.12.2018 and along with subsequent documents & EIA report submitted for the aforesaid project to the State Level Environment Impact Assessment Authority, Tamil Nadu seeking Environmental Clearance under the Environment Impact Assessment Notification, 2006.
- II. It is noted, that the project proposal is for peak production of 0.5004 million tonnes of Limestone & Marl/Annum over an applied mine lease area of 32.295 Ha in S.F.No. 153/16, 153/17, 153/18, 153/19, 153/20, 160/11, 160/12, 160/13A, 160/13B, 160/13C, 161/4B, 161/5, 161/6, 161/7, 161/8, 161/9, 161/10, 161/15, 162/1, 162/2, 162/3A, 162/3B, 162/4A, 162/6A, 162/6B, 162/6C, 162/7, 162/8, 162/9, 162/10, 162/11A, 162/11B, 163/1, 163/2A, 163/2B, 163/2C, 163/3, 163/4, 163/5, 163/6, 163/9, 163/10, 163/11, 163/12A, 163/12B, 163/12C, 163/13, 163/14, 163/15, 163/16, 163/17, 163/18, 163/19, 163/20A, 163/20B, 163/20C, 163/21, 163/22, 163/23, 163/24, 163/25, 163/26, 163/27, 164/1A, 164/1B, 164/1C, 164/2A, 164/2B, 164/2C, 164/3, 164/4, 164/5, 164/6, 164/7, 164/8A, 164/8B, 164/9A, 164/9B, 164/10A, 164/10B, 164/10C, 164/11A, 164/11B, 164/12A, 164/12B, 164/12C, 164/12D, 164/12E, 164/12F, 164/13A, 164/13B, 164/14A, 164/14B, 164/15A, 164/15B, 164/15C, 164/16A, 164/16B, 164/16C, 164/16D, 164/16E, 164/16F, 165/1, 165/2, 165/3A, 165/3B, 165/3C, 165/3D, 165/4A,



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III. It is reported that there is no litigation pending against this proposal.



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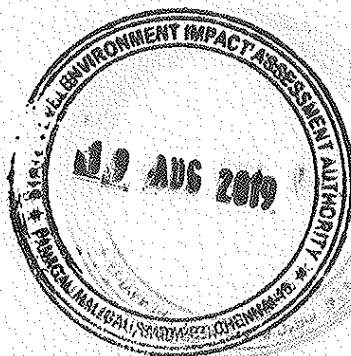
- IV. The lime stone & marl mining is proposed over an area of 32.295 Ha (<100 Ha). Mining operations is Opencast Non-Conventional Method.
- V. The ToR was accorded by SEIAA-TN in the name of M/s. Chettinad Cements Corporation Limited Vide Lr.No.SEIAA-TN/F.6283/M-XCIV/ToR-287/A/2017 dated: 11.09.2017 with Public Hearing. Subsequently, the project proponent obtained name change Amendment in the Terms of reference from M/S. Chettinad Cements Corporation Limited to M/s. Chettinad Cement Corporation Private Limited. vide Lr.No.SEIAA-TN/F.6283/M-XCIV/ToR-287/A/2017 dated: 11.05.2018.
- VI. The public hearing was conducted on by Tamil Nadu Pollution Control Board on 31.08.2018 at 11:00AM at M/s. Chettinad Cement Corporation Private Limited, S.F.No.63 & 68 of Periyathirukonam Village, near Periyathirukonam Govt High School, Ariyalur Taluk & District.
- VII. The public hearing minutes received to SEIAA-TN on 26.10.2018 from TNPCB vide TNPCB vide Lr.No.T2/TNPCB/F.27245/ARY/ PH/2018 dated: 15.10.2018
- VIII. The project proponent submitted final Environment Impact Assessment and Environment Management plan to SEIAA-TN on 17.12.2018
- IX. The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee, Tamil Nadu in its 131st meeting held on 18.07.2019 and recommended to SEIAA-TN to consider for issue of Environmental Clearance.
- X. The proposal was placed in the 352nd SEIAA-TN meeting held on 19.08.2019 and SEIAA after careful consideration decided to issue Environmental Clearance in its meeting and decided by SEIAA to issue prior Environmental Clearance based on the Information submitted by the project proponent which are extracted below.

File No:6283/2017		Date of EIA Submission:17.12.2018
S. No	Description	Details
1.	Name of the Project	M/s. Chettinad Cement Corporation Private Limited, Periyathirukonam Limestone Mining
2.	Location	S.F.No. 153/16, 153/17, 153/18, 153/19, 153/20, 160/11, 160/12,



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Co-ordinates-	160/13A, 160/13B, 160/13C, 161/4B, 161/5, 161/6, 161/7, 161/8, 161/9, 161/10, 161/15, 162/1, 162/2, 162/3A, 162/3B, 162/4A, 162/6A, 162/6B, 162/6C, 162/7, 162/8, 162/9, 162/10, 162/11A, 162/11B, 163/1, 163/2A, 163/2B, 163/2C, 163/3, 163/4, 163/5, 163/6, 163/9, 163/10, 163/11, 163/12A, 163/12B, 163/12C, 163/13, 163/14, 163/15, 163/16, 163/17, 163/18, 163/19, 163/20A, 163/20B, 163/20C, 163/21, 163/22, 163/23, 163/24, 163/25, 163/26, 163/27, 164/1A, 164/1B, 164/1C, 164/2A, 164/2B, 164/2C, 164/3, 164/4, 164/5, 164/6, 164/7, 164/8A, 164/8B, 164/9A, 164/9B, 164/10A, 164/10B, 164/10C, 164/11A, 164/11B, 164/12A, 164/12B, 164/12C, 164/12D, 164/12E, 164/12F, 164/13A, 164/13B, 164/14A, 164/14B, 164/15A, 164/15B, 164/15C, 164/16A, 164/16B, 164/16C, 164/16D, 164/16E, 164/16F, 165/1, 165/2, 165/3A, 165/3B, 165/3C, 165/3D, 165/4A, 165/4B, 165/4C, 165/5, 165/6, 165/7A, 165/7B, 165/8A, 165/8B, 165/8C, 165/8D, 165/8E, 165/8F, 165/9A, 165/9B, 165/10A, 165/10B, 165/10C, 165/11A, 165/11B, 165/11C, 165/11D, 165/12, 165/13A, 165/13B, 165/14, 165/15, 165/16, 165/17, 165/20, 165/21A, 165/21B, 165/22, 165/23, 166/1, 166/2A, 166/2B, 166/2C, 166/2D, 166/2E, 166/3, 166/4, 166/5, 166/6A, 166/6B, 166/6C, 166/7, 166/8, 166/9, 166/10A, 166/10B, 166/11, 166/12, 166/13, 166/14A, 166/14B, 166/15A, 166/15B, 166/15C, 166/16A, 166/16B, 166/16C, 166/17A, 166/17B, 166/18A, 166/18B, 166/18C, 166/18D, 166/18E, 166/18F, 166/18G, 166/18H, 166/18I, 167/1, 167/2A, 167/2B, 167/2C, 167/2D, 167/3, 167/4, 167/5, 167/6, 168/1A, 168/1B, 168/2A, 168/2B, 168/3, 168/4A, 168/4B, 168/5A, 168/5B, 168/6, 168/7A, 168/7B, 168/8, 168/9, 168/11A, 168/11B, 168/12A, 165/12B, 168/12C, 168/13A, 168/13B, 168/13C, 168/13D, 168/14, 168/16A, 168/16D, 169/1A, 169/1B, 169/1C, 169/1D, 169/1E, 169/2, 169/3,
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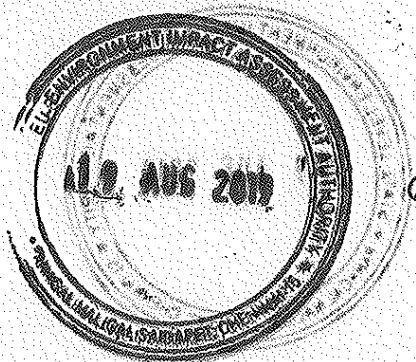
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3.	Type of Project and Details of Land Ownership	<p>Mining of Major Minerals</p> <p>Schedule 1 (a): < 100 ha - of Mining lease area in respect of non-coal mine lease.</p> <p>Own Patta land & Mutual agreement with M/s. Dalmia Cement (B) Limited</p>
4.	Brief description of the	The proponent has proposed to adopt the "Non-conventional"



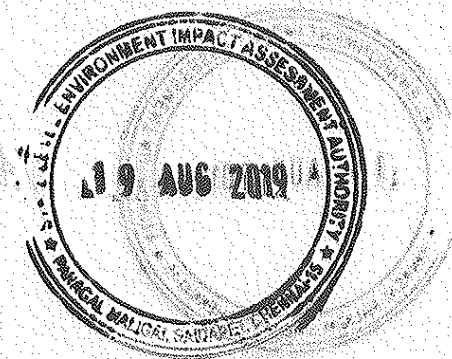
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	project	Opencast Mechanised Mining by means of excavation of Overburden can also be removed by excavator/ripper, there will not be any drilling or blasting. The excavation of Overburden and Limestone/Marl will be broken into smaller pieces using Rock Breaker. Excavator is engaged for loading the material into the tippers. The transportation of mines Limestone & Marl to cement plant will done using tippers.			
5.	Mining plan approved by Indian Bureau Mines	5Years			
6.	Height X Width X Depth	394mX 572mX34m below Ground level(+3 RL)			
7.	Ground Water Table	During post Monsoon season the ground water table will be 15-16m & During Pre-Monsoon season the ground water table will be 17-18m			
8.	Proposed production	Production of 0.5004 million tonnes of Limestone & Marl/Annum			
9.	Total Area	32.295Ha			
		Description	Existing Land Use(Ha)	At end of the plan period(Ha)	Conceptual Period(Ha)
		Area of Excavation	-	10.746	15.270
		Storage of Topsoil	-	-	-
		Overburden/Dump	-	-	-
		Mineral Storage/ sub Grade	-	-	-
		Infrastructure(office building & reset shelter)	-	0.5	0.5
		Roads	-	0.3	0.1
		Railways	-	-	-
		Tailing Pond	-	-	-
		Effluent Treatment Plant	-	-	-
		Mineral Separation Plant	-	-	-
		Township Area	-	-	-
		Others(GreenBelt & Safety Zone)	-	15.993	15.993
		Total Area Utilized	-	27.539	31.863
		Undisturbed area	32.295	4.756	0.432



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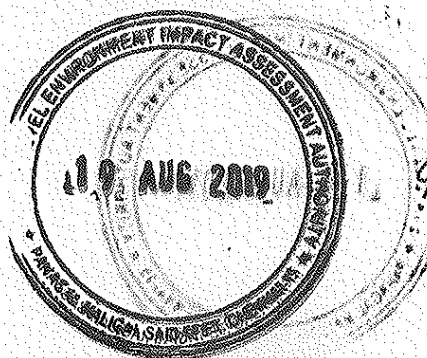
		Total ML area	32.295	32.295	32.295																					
10.	Mining lease granted by Commissioner of Geology and Mining, Chennai	Lr.No. 7135/MM1/2010, dated. 09.01.2017 for 32.295Ha for Limestone & Marl																								
11.	Cost of Project	3.3 crores																								
12.	Man Power	Direct involved-59 persons Indirect involved -200 persons																								
13.	Documents Enclosed	EIA Submitted on 17.12.2018. TOR: Lr.No.SEIAA-TN/F.No.6283/M-XCIV/ToR-287/2017 Dated:11.09.2017 AMENDMENT TOR: Lr.No.SEIAA-TN/F.6283/M-XCIV/ToR-287/A/2017 dated: 11.05.2018 Review of Mining plan along with Progressive mine closure plan approved by IBM. No:TN/ALR/MP/LST/2013.MDS dated: 09.01.2017																								
14.	Production Capacity	<table><tr><th>Year</th><th>Limestone (Tonnes)</th><th>Marl (Tonnes)</th></tr><tr><td>I</td><td>174305</td><td>26412</td></tr><tr><td>II</td><td>393097</td><td>107258</td></tr><tr><td>III</td><td>429933</td><td>69700</td></tr><tr><td>IV</td><td>398973</td><td>99831</td></tr><tr><td>V</td><td>478094</td><td>22170</td></tr><tr><td>Total</td><td>1874401</td><td>325371</td></tr></table>				Year	Limestone (Tonnes)	Marl (Tonnes)	I	174305	26412	II	393097	107258	III	429933	69700	IV	398973	99831	V	478094	22170	Total	1874401	325371
Year	Limestone (Tonnes)	Marl (Tonnes)																								
I	174305	26412																								
II	393097	107258																								
III	429933	69700																								
IV	398973	99831																								
V	478094	22170																								
Total	1874401	325371																								
15.	a) Water requirement KLD b) Source	Domestic – 1.5 cu.m/day Dust suppression – 23.0 cu.m/day Green Belt –3.5 cu.m/ day, Work shop activity – 2.0 cu.m/ day Total 30.0 cu.m/day Bore well water and mine pit water																								
16.	Quantity of Effluent generation in Cu.m per day	2 Cu.m per day effluent will be generated from the workshop activity, which will be treated in the Effluent treatment plant of 4kLD capacity																								



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17.	Mode of Disposal of treated Effluent with quantity	The treated effluent will be reused within the workshop plant
18.	Details of D.G. set with Capacity in KVA	Total energy requirement 500 units per day from TNEB DG set 0.5KVA
19.	Details of green belt (including lawn) area in hectares	Green Belt area in 15.993Ha
20.	Provision for rain water harvesting	2 proposed settling pits connected to the garland drain.
21.	Public Hearing	Public Hearing was conducted by Tamil Nadu Pollution Control Board on 31.08.2018 at 11:00AM at M/s. Chettinad Cement Corporation Private Limited, S.F.No.63 & 68 of Periyathirukonam Village, near Periyathirukonam Govt High School, Ariyalur Taluk & District.
22.	CER Activities	Rs.6.6Lakh
23.	EMP Budget	Capital cost - Rs.88 Lakhs EMP Recurring cost- Rs.51 Lakhs per annum
24.	Important surrounding features at the project site	<ul style="list-style-type: none"> The mining lease area and the 10 km buffer zone is devoid of declared ecologically sensitive features like national parks, biospheres, sanctuaries, etc. No forest land is involved in the lease area. The area also does not come under CRZ category. Karaivetti Bird Sanctuary is located at 14.84 km (aerial) SW of the ML Area. In the buffer zone of 10 km radius, Reserve Forests viz., Vilangudi Reserve Forest (3.6 km,NE), Ulliyakkudi Reserve Forest (4.7 km,NE), Ambapur Reserve Forest (4.8 km,NE),Alvay Reserve Forest (7.4 km,E), Suttamalli Reserve



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		<p>Forest (8.1 km,NE), Sundaresvarapuram Reserve Forest (6.0 km,NE), Manageri Reserve Forest (7.7 km,NE), Kallankadu Reserve Forest (9.7 Km NE) and Vadakadal Reserve Forest (9.9 km,NE).</p> <ul style="list-style-type: none"> The water bodies like Marudaiyar River (Adjacent,S), Vari Course (Adjacent,E), Periyapadayachi Eri (Adjacent,N), Pungudi Kuttai (Adjacent,W), Alagappan Kuttai (Adjacent,E), Uppu Odai (1.2 km,NW), Kallar River (6.4 km,NW), Ottan Odai (4.6 km,SW), Vilangudi Odai (7.7 km,NE), Sukra Eri (5.5 km,S) and Pullambadi Canal (9.2 km,SW) are found.
25.	Air Pollution Control Measures	<ul style="list-style-type: none"> Water sprinkling on the surface mining, loading point, haul roads, etc. Proper maintenance of transport roads Proper maintenance of transport vehicles Green belt development along the periphery, haul roads, waste dumps, etc. Avoiding over loading of material. Covering of loaded vehicles with tarpaulin sheet if warranted. Keeping traffic regulators at vulnerable locations. Plantation along the roads
26.	Containment of Noise	<ul style="list-style-type: none"> Deploying mining equipments shall be with in-built mechanism for reducing noise. Provision of silencers to modulate the noise generated by the machines. Providing sound proof operators cabin of equipments. Provision of ear muffs/ear plugs to the workers in higher noise zones. Green belt with thick foliage along roads and around lease boundary to act acoustic barriers.



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Affidavit

The Proponent has furnished affidavit in Hundred Rupees stamp paper attested by the Notary stating that I, M. Anandharaja, aged about 47 years, son of Sri. Muthiah resident of No.2, JD Apartments, Anbalagan Street, Anna Nagar, Pammal, Chennai- 75 do hereby solemnly declare and sincerely affirm that:

1. I General Manager (Geology) for the proposed Periyathirukonam Limestone mine of M/s. Chettinad Cement Corporation Private Ltd over an extent of 32.295Ha in Periyathirukonam Village, Ariyalur Taluk and District, Tamil Nadu for which we have applied for environmental clearance from SEIAA. Tamilnadu.

2. We undertake that:

a) M/s. Chettinad Cement Corporation (P) Ltd. shall comply with all the statutory requirements and judgement of Honourable Supreme Court dated the 02nd August, 2017 in Writ Petition (Civil) no. 114 of 2014 in the matter of common cause versus union of India and Ors.

b) M/s. Chettinad Cement Corporation (P) Ltd. hereby declare and assure that all statutory requirements will be complied for the above project.

c) M/s. Chettinad Cement Corporation (P) Ltd will comply with all the standard conditions and additional conditions if any that will be prescribed by SEAC in the Environmental Clearance of this project

3. We swear to state and confirm that the following

- ❖ There will not be any hindrance or disturbance to the people living on en route/ nearby Mining site while transporting the mined out material and due to Mining activities.
- ❖ Within 10 km radius of the Mining site we have applied for environmental clearance, none of the following is situated.
 - Protected areas notified under the wild life (Protection) Act, 1972
 - Critically polluted areas as notified by the central pollution control board constituted under water (Prevention and Control of Pollution) Act 1974.



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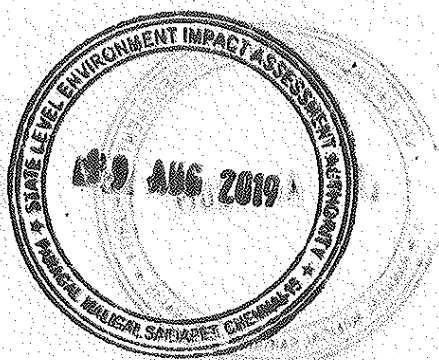
- Eco-Sensitive areas as notified.
- Interstate and international boundaries within 10 km radius from the boundary of the proposed site.

4. We will complete the following Corporate Environment Responsibility (CER) activities before commencement of the Mining activities.

M/s. Chettinad Cement Corporation (P) Ltd. Will comply with MoEF&CC office memorandum dated 01.05.2018 with respect to Corporate Environmental Responsibility (CER). This being a greenfield project, 2% of the capital investment will be spent under the CER activities for the locals.

CER Activity	Project Cost	CER Cost- 2% of Project Cost
- Infrastructure Development - Conducting medical camps, hygiene awareness camps, support to Primary Health Centers and sub-centers. - Livelihood Development - Provision of improved drinking water facility, sanitation facilities. - Awareness programmes, Plantation drives etc.	Rs. 330 lakhs	Rs. 6.6 Lakhs

5. There is no habitations/village, temples etc located adjoining to Mining site and sufficient safety distance will be left from public properties as per law.
6. Afforestation work will be carried out during the course of Mining operation and it will be maintained.
7. The required insurance will be taken for all laborers working in our Mining site.
8. We will not engage any child laborers in Mining site and we are aware that engaging child laborer is punishable under the law.
9. All type of safety/protective equipment's will be provided to all the laborers working in the mine.
10. The Mining activity will be commenced only after obtaining environmental clearance.
11. That we swear this affidavit to produce before the Authority of SEIAA, Tamil Nadu.



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Validity:

This Environmental Clearance is granted to Limestone & Marl for the production quantity of 1874401 Tonnes of Lime stone & 325371 Tonnes of Marl (As per the of approved Mining plan along with including Progressive Mine Closure plan by IBM) for the period of 5Years, subject to the compliance of the terms and conditions stipulated below:

Conditions for Pre - Construction Phase:

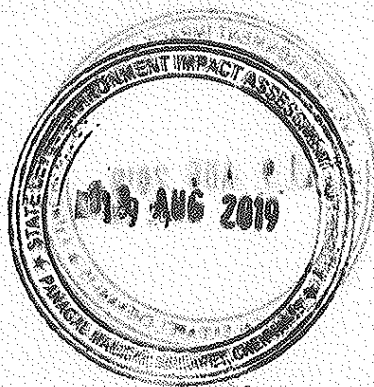
1. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
2. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu before taking up any construction activity at the site.
3. "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.
4. Safety distance of 50m shall be provided from the vari course to the mining lease boundary and this should be monitored continuously by the District Level Task Force.
5. The proponent shall carry out the mining activities for the 5 years only for 1874401 Tonnes of Limestone & 325371 Tonnes of Marl as per the mining plan furnished by the proponent. The EC is valid only if the mining plan (including Progressive Mine Closure plan) is approved by the Indian Bureau of Mines or any officers nominated on his behalf.
6. For the extension of the Environmental Clearance the proponent shall apply for extension of EC within the valid period for the next scheme of mining.
7. 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



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limestone & Marl and waste should be made.

8. The Environmental clearance is subject to obtaining prior clearance from Forestry and wildlife angle including clearance from the standing committee of the National Board for Wildlife as applicable before issue of permit/Consent to establish by the Competent Authority"/before starting any activity at site.
9. Project proponent shall comply with all the guidelines and notifications issued by MoEF&CC, New Delhi regarding Mining of Minerals and comply with orders of Hon'ble NGT from time to time regarding mining of minerals under 1(a).
10. 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 on the website of the Proponent.
11. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Hill Area Conservation Authority (HACA), Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.
12. All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.
13. The company shall stress upon the preventive aspects of occupational health.
14. 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.
15. The project authorities should advertise with basic details at least in two widely circulated local newspapers, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA,



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TN and a copy of the same should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai.

16. 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 lifetime of the industry, for implementation of the stipulated environmental safeguards.
17. The State Pollution Control Board should display a copy of the Environmental Clearance issued to the project at the Regional office, District Industry Centre and the Collector's office/Tahsildar's office for 30 days. The Project Proponent has to conduct Ambient Air Quality survey twice in a week (104 times) in a year and monitor the PM₁₀ & PM_{2.5}.
18. A scientific site/ ecological rehabilitation and restoration plan on long term basis should be drawn to carryout restoration with native species and Bio diversity.
19. The Green/Blue plan should guide the restoration of the site. The rehabilitation/restoration plan should be submitted to SEIAA-TN within one month. If applicable.
20. The existing water bodies should not be disturbed to ensure sustainable environment for aquatic life forms.
21. The proponent should completely implement all environmental pollution control measures as detailed in the EIA report and in the additional report.
22. Additional sprinklers to be effectively added along the route for transporting limestone from the mines to the plant
23. Avenue plantation wherever needed has to be carried out along the route for dust suppression.
24. The green belt developed for the prevention of dust pollution should not form a part of the larger green belt development envisaged in the EIA report.
25. Regular monitoring and check up for pulmonary and carcinogenic diseases to be carried out regularly, not only for the workers involved in the mines but also to the people in the villages adjoining the mines. Interaction with the Primary Health Centre & district medical officer should be on regular basis to monitor the incidence of the diseases if any and to provide suitable medical facility for the patients.



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26. As mining operations are conducted by deploying rock breakers which is bound to produce noise as well as vibration, a survey has to be undertaken for studying the vibrations and remedial action need to be taken to circumvent the noise pollution and dissemination from the source. Vibration studies need to be conducted by a reputed organization like Annamalai University, Anna University, NIT, Trichy. Green barrier needs to be provided between the mine boundary and the nearby habitation to minimize the noise pollution.

Conditions for Construction/Mining Phase

1. The proponent shall plant the green belt area with more indigenous species for biodiversity enhancement.
2. A Report on quality and quantity of ground water to be generated during mining operations should be furnished to the TNPCB for every one year for effective monitoring.
3. The Comparative statement on normal ground water and mined out water with respect to qualities & suitability for agriculture etc should be furnished to the TNPCB for every one year for effective monitoring.
4. 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 MoEF, Chennai and SEIAA.
5. 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.
6. 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 Forests and its Regional Office, Chennai, the Central Ground Water Authority and the Regional Director, Central Ground



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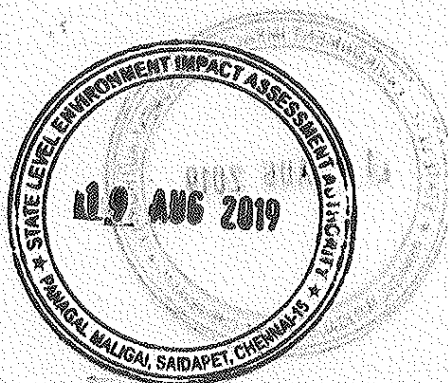
Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.

7. Hydro geological study including infiltration test shall be conducted by any reputed agency to estimate leachate quantity.
8. The excess over burden shall not be disposed for any commercial purposes and shall be disposed within the mine lease area only.
9. The critical parameters such as RSPM ($PM_{2.5}$, PM_{10}) and NO_x 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 Solids (TSS)]. The monitored data shall be uploaded on the website of 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.
10. Data on ambient air quality [(RSPM and NO_x)] shall be regularly submitted to the Regional office of MoEF at Chennai and the SEIAA/SPCB/CPCB once in six months.
11. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
12. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
13. Regular medical check-up for mine workers and nearby residents around the project site involving community medical centre/NIMH shall be conducted.
14. As per norms, the health study should be conducted through competent/approved health organization and report submitted for one year.
15. Corpus fund created should be prioritized and utilized for health issues.
16. 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



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- have efficient dust control arrangements. These should be properly maintained and operated.
17. 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 within the lease area. The mineral transportation within the mine lease shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
18. The effective safe guard measures shall be provided to control particulate dust level in critical areas, transfer points and haul road within the mine area.
19. At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for monitoring of RSPM (PM_{2.5}, P.M₁₀) and NO_x. Location of the stations should be decided in consultation with Tamil Nadu Pollution Control Board based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring etc.
20. NOC from the State GWA for drawing ground water shall be obtained, if ground water table is intersected.
21. Separate drain shall be constructed in waste dump (bund) and nearby river course, if any, to avoid silting in the water body.
22. Garland drains and siltation ponds of appropriate size shall be constructed around the mine working, soil and mineral dumps to prevent run off of 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 desilted, particularly after the monsoon, and maintained properly.
23. The rain water accumulation in the mine during rainy seasons shall be treated by providing settling tanks in the periphery of the mining lease area and the overflow clean water from the settling tanks shall be allowed to discharge through the first order streams to join nearby natural drains. The settling tanks shall be cleaned periodically for removal of sediments and such records of cleaning shall be maintained properly.



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24. Garland drains 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 only overflowing clean water shall be allowed to discharge through the first order streams. The settling tanks shall be of sufficient dimensions to hold the wash offs in one rainy season and has to be cleaned before every rainy season.
25. Conservation plan furnished to protect the scheduled flora and fauna in the core and buffer zone of the project site shall be implemented. Scheduled species of fauna found in the study area shall be monitored closely.
26. Annual monitoring on Bio-diversity around the project site shall be conducted and a report shall be furnished.
27. Greenbelt shall be raised including a 7.5 m wide statutory barrier all around the mining lease, reclaimed and rehabilitated areas, around water body, roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The ultimate area to be planted /afforested shall not be less than 15.993 ha. Greenbelt shall be developed all along the mine lease area in a phased manner as per the approved mining plan.
28. Green belt shall be provided as per norms of MoEF & CC, GOI, in consultation with local DFO.
29. The project authority shall implement suitable water conservation measures including rain water harvesting system to augment ground water resources in the area in consultation with the Regional Director, State Ground Water Board.
30. 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 stakeholders or shareholders.



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31. A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests, Government of India, New Delhi in advance of 5 years prior to the final mine closure for approval. Mine closure procedure shall be followed as per the approved mining plan.
32. Depth of water table of the wells located inside the mining area and wells located around the monitoring area shall be monitored regularly.
33. Mining should be carried out taking into consideration all aspects of mineral conservation.
34. The suitable measures to allow the existing drainage to flow to the nearby area or lake if any stream is found in the near vicinity of the mining area.
35. Effective water quality management of the surface and ground water quality studies shall be carried out systematically in a sustainable manner to ensure that the ground water quality is neither depleted nor deteriorated.
36. The mining activity involves intersection of the ground water and it was reported that 173 cu.m/day mine seepage water will be collected in the sump adequate capacity and allowed to settle in the pond. Clear water after meeting the permissible limit of Bureau of Indian standards for drinking and irrigation purpose, bailed out water will be discharged into nearby water bodies for irrigation. For bailing out 173cu.m/day of mine seepage water, project proponent has to get necessary permission from Central Ground Water Authority. If applicable
37. Necessary permission should be obtained from the competent authority for discharge of bailed out water into nearby water bodies for irrigation. After achieving permissible limit of Bureau of Indian standards for drinking and irrigation.
38. All the condition imposed in the proceedings of the commissioner of Geology and mining vide R.cNo.7135/MM1/2010 dated 09.01.2017 should be strictly followed.
39. The limestone & marl produced from the mining lease area will be for captive purpose only.
40. Scientific studies related to noise and ground vibration shall be carried out involving reputed government institutions like IIT, NIT, Anna University, Chennai for the usage of rock breakers and to carry out controlled blasting activities in the mine even if sporadically.



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41. The executive engineer, PWD/WRD, Maruthaiyar Basin, Ariyalur vide letter number 37m/DB/F.14(A)/2018 dated 13.02.2018 states that the mining lease area and recommended with a condition of providing 50m for Uppudai right bank boundary limit, 50m for Maruthaiyar river left bank boundary limit, 50m for Periyapadayatcheri boundary limit, 50m for poonkudikuttai boundary limit. However, the SEAC felt that the 50m, safety distance is not sufficient for MarudaiyarRiver. Hence, the project proponent has to provide a total of 100m safety distance from boundary of the MarudaiyarRiver Course this should be ensured by the District level task force.
42. The study recommended for hydrological modelling and water quality analysis through the centre for water resources (CWR) Anna University, Chennai should be strictly followed. The recommendation are detailed below:
- The mine seepage water will be collected in the sump located in the bottom of the mine pit. This sump will act as the settling pond also. Supernatant clear water confirming to the limits will be pumped out to the nearby tanks.
 - Carrying out regular monitoring of mine discharge water quality before discharging into nearby tanks.
 - Water chemistry of mine discharge must be carefully considered and suitable In situ water treatment methods should be adopted for the controlling the turbidity, pH and total hardness if needed.
 - Piezometers of two numbers (at least) shall be installed by CCCPL in different directions for regular monitoring of the ground water level and its quality during the actual course of mining operations.
43. Ground water quality monitoring should be conducted every month and the report should be submitted to TNPCB.
44. The operation of the quarry should no way impact the water bodies, agricultural activity, habitation surrounding the project site.
45. Transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village road.

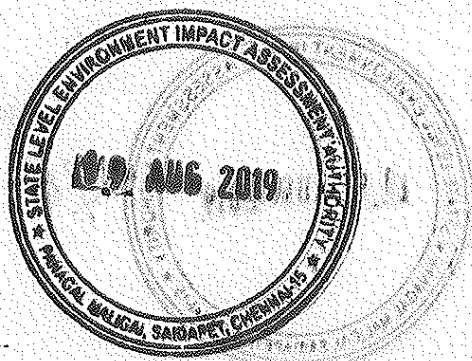


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46. All the commitment made in the proposal with respect to bailing out of water, rain water harvesting, installation of Piezo meter monitoring of ground water quality, green belt development, etc should be strictly followed.
47. The Project Proponent shall comply with the mining and other relevant rules and regulations where ever applicable.
48. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be monitored by the District Authorities.
49. To ensure safety measures along the boundary of the quarry site, security guards are to be engaged during the entire period of mining operation.
50. The mine closure plan submitted by the project proponent shall be strictly followed after the mine activity is lapsed as reported.

Conditions for Post Construction / Operation Phase & Entire life of the project:

1. The pits left unfilled in an area shall be converted in to water body. The higher benches of excavated void / mining pit shall be terraced and plantation shall be done to stabilize the slopes.
2. There should not be any impact to the nearby water bodies due to seepage from the proposed mine.
3. There should not be any disturbance to the plantation in and around the mining area due to the proposed activity.
4. The proponent shall plant the green belt area with more indigenous species for biodiversity enhancement in consultation with the local DFO.
 - a) The mutual agreement signed between M/s. Chettinad Cement Corporation private limited & M/s. Dalmia Cement (B) limited shall be registered before commencement of the mining operation. This should be ensured by the District Collector.
5. As far as possible the mining should be on sustainable basis, ensuring the reserves are not unduly over harvested and mining should spread over the years, ensuring sustainable mining.



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6. The mining site shall be monitored during entire mining period by establishing atleast two stations and the Air quality shall be monitored twice in a week.
7. Pumping of water if available in the common storm water area should not impact the neighboring agricultural activities, nor affect the ground water availability and alter the ground water flow by any means.
8. Any storm water leaving the site shall be settled within the mining area by providing adequate settling tank so that there shall not be any carryover of residue to the surrounding land or water bodies.
9. There has to be a thorough risk assessment and disaster management plan in place.
10. Preventive measures and problems due to occupational mine diseases should be displayed in vernacular language for understanding to the workers.
11. Workers shall be examined every month by practiced physician, results shall be documented and required medical facilities shall be extended to labour force at the cost of the proponent.
12. Anti-vibration devices shall be provided to the vibrating tools and equipments to be used by workers during mining and its usage shall be ensured by maintaining safe limit of vibration impact.
13. All the precautions are to be followed for safety and security. Face masks, helmets, safety shoes, etc shall be provided to all the workers working in the mining area.
14. Appropriate fencing and manning of lease area and mined out area shall be done.
15. All the recommendations made in the EIA report of the project shall be effectively implemented.
16. A booklet containing the Dos and Don'ts shall be prepared in vernacular languages for the use of the mine engineers/ managers and the workers to ensure that all necessary environmental, safety and health measures are undertaken.
17. CER funds of Rs.6.6 Lakhs shall be spent for Karaivetti Bird Sanctuary, Ariyalur District for maintenance and beautification purpose. The aforesaid amount shall be paid in the form of Demand Draft to District Forest Officer, Ariyalur. The above said amount shall be spent before applying Consent from TNPCB.



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18. The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.
19. 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.
20. 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 this Authority for clearance, a fresh reference shall be made to the SEIAA-TN to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
21. All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.
22. 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 regularly.
23. 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, SO₂ and NO_x outside the premises at the appropriate place for the general public.
24. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Mines Act.
25. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee should be maintained separately
26. The overall noise levels in and around the mining area shall be kept well within the standards prescribed for by providing noise control measures on all sources of noise



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- generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 55 dBA (day time) and 45 dBA (night time).
27. 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.
28. CSR activity shall be implemented as committed by drawing a scheme for social upliftment 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 non-technical 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.
29. 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 a Senior Executive.
30. The requisite amount earmarked towards capital cost and recurring cost/annum for implementing 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 purposes.
31. The project proponent shall upload the status of compliance of the stipulated 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, SO₂, NO_x 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.
32. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored



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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 Chennai/CPCB/SPCB shall monitor the stipulated conditions.

33. 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 & CC by e-mail.
34. 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.
35. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
36. The SEIAA/SEAC reserves the right to add any further condition(s) on receiving reports from the project authority. The above condition shall be monitored by the Regional Office of MoEF & CC located at Chennai.
37. The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.
38. 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 concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.
39. 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.



T. Jayaraj
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40. 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, the Environment (Protection) Act, 1986, the Public Liability Insurance 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.
41. This clearance is issued with respect to only environmental considerations and it does not imply that SEIAA approved the way by which lease is granted to the project. While granting lease, the concerned authority shall ensure compliance of Relevant rules, Regulations, Notification, Government resolutions, circulars, Judgments/Orders of Hon'ble Court and NGT, etc.

Jayanti
MEMBER SECRETARY
SEIAA-TN

Sd/-
19/08/19

Copy to :

1. The Principal Secretary to Government Environment & Forests Department,
Govt. of Tamil Nadu, Fort St. George, Chennai – 600 009.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan,
CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board,
76, Mount Salai, Guindy, Chennai - 600 032.
4. The APCCF (C), Regional Office, Ministry of Environment Forest & CC (SZ),
34, HEPC Building, 1st & 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai -34.
Monitoring Cell, I A Division, Ministry of Environment Forest & CC, Paryavaran Bhavan,
CGO Complex, New Delhi 110003
6. The District Collector, Ariyalur District.
7. Stock File.

