



Thiru. K.V. GIRIDHAR, I.F.S.,
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY – TAMIL NADU

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ENVIRONMENTAL CLEARANCE

Lr.No.SEIAA-TN /F.No.2894/ALR/1 (a)/EC –4475/2020, dated: 12.01.2021

To,

M/s. Tamil Nadu Minerals Limited
No 31, Kamarajar Salai,
P.B.No.2961,
Chepauk
Chennai - 600 005

Sir,

Sub: SEIAA, TN –Environmental Clearance for the existing Limestone Mining lease over an extent of 9.94.5Ha by M/s. Tamil Nadu Minerals Limited at S.F.Nos. 292/4, 292/5, 292/6, 301(P), 304/1, 305/1 & 306(P) in Periyagalur Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu - Issued – Regarding.

- Ref:**
1. MoEF & CC Notification S.O.804(E) dated 14.03.2017
 2. MoEF & CC Notification S.O.804(E) dated 08.03.2018
 3. Proponent application submitted for ToR to MoEF &CC online proposal IA/TN/MIN/ 67760/ 2017 Dated: 29.08.2017
 4. Application transferred to SEIAA-TN through online SIA/TN/MIN/27258/ 2018 Dated: 02.06.2018
 5. Proponent hardcopy application submitted for ToR to SEIAA on 11.12.2018
 6. ToR issued by SEIAA-TN Vide Lr.No.SEIAA-TN/F.No.2894/2018/ToR-608/2019 dated: 20.02.2019
 7. Public Hearing Conducted by TNPCB on 24.09.2019.




MEMBER SECRETARY
SEIAA-TN

8. Proponent submitted EIA report to SEIAA-TN on 11.12.2019
9. Minutes of 143rd SEAC meeting held on 03.02.2020.
10. Minutes of 151st SEAC meeting held on 11.05.2020.
11. Minutes of 380th SEIAA meeting held on 16.06.2020.
12. Proponent reply dated 27.08.2020
13. Minutes of 395th SEIAA meeting held on 11.09.2020.
14. Minutes of 177th SEAC meeting held on 26.09.2020.
15. Minutes of 407th SEIAA meeting held on 29.09.2020.
16. Proponent reply dated: 05.11.2020 & 29.12.2020
17. Minutes of 417th SEIAA meeting held on 04.01.2021, 05.02.2021 & 06.01.2021.

- I. This has reference to your application for Environmental Clearance to SEIAA-TN under violation category dated 11.12.2019 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 existing Limestone Mining lease over an extent of 9.94.5Ha by M/s. Tamil Nadu Minerals Limited at S.F.Nos. 292/4, 292/5, 292/6, 301(P), 304/1, 305/1 & 306(P) in Periyanaalur Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu, under violation notification dated 14.03.2017 & 08.03.2018.
- III. The project proponent application submitted for ToR to MoEF &CC online proposal IA/TN/MIN/ 67760/ 2017 Dated: 29.08.2017, the Application transferred to SEIAA-TN through online SIA/TN/MIN/27258/ 2018 Dated: 02.06.2018. Proponent hardcopy application submitted for ToR to SEIAA on 11.12.2018
- IV. The subject was placed in the 124th SEAC meeting held on 04.01.2019 and the SEIAA 338th SEIAA meeting held on 20.02.2019. The authority recommended to




MEMBER SECRETARY
SEIAA-TN

Terms of Reference with public Hearing. The ToR was issued by SEIAA-TN vide Lr.No.SEIAA-TN/F.No.2894/2018/ToR-608/2019 dated: 20.02.2019

- V. The public hearing was conducted by Tamil Nadu Pollution Control Board on 24.09.2019 at 11:00AM at Community Hall near Valajanagaram Panchayat office, Ariyalur Taluk, Ariyalur District.
- VI. The public hearing minutes received by SEIAA-TN from TNPCB.
- VII. The project proponent submitted final Environment Impact Assessment and Environment Management plan to SEIAA-TN on 11.12.2019.
- VIII. The EIA report along with documents & Inspection report was placed in the 151st SEAC meeting held on 11.05.2020. The Committee decided to recommend the proposal to SEIAA for grant Environmental Clearance.
- IX. The subject was placed in the Minutes of 417th SEIAA meeting held on 04.01.2021, 05.02.2021 & 06.01.2021. The Authority unanimously accepted the recommendation of the SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC in addition to the general conditions.

Sl.no	Details of the proposal	:	Data furnished
1.	Name of the Owner/Firm	:	M/s. Tamil Nadu Minerals Limited No 31, Kamarajar Salai, P.B.No.2961, Chepauk Chennai - 600 005
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Lime stone Mine
3.	S.F No. of the quarry site with area break-up	:	292/4, 292/5, 292/6, 301(P), 304/1, 305/1 & 306(P)
4.	Village in which situated	:	Periyaganalur



5.	Taluk in which situated	:	Ariyalur																
6.	District in which situated	:	Ariyalur																
7.	Land Use pattern (in ha.)	:	9.94.5 Ha																
			<table border="1"> <thead> <tr> <th>Description</th> <th>Area put in use at the start of SOM (in Ha)</th> </tr> </thead> <tbody> <tr> <td>Area already degraded due to quarrying</td> <td>8.73.0</td> </tr> <tr> <td>Dumping</td> <td>0</td> </tr> <tr> <td>Storage of topsoil(including total afforested area of 0.27.0Ha)</td> <td>0.94.0 (non afforested area of 0.67.0Ha and afforested area of 0.27.0Ha)</td> </tr> <tr> <td>Roads(Haulage)</td> <td>0.10.0</td> </tr> <tr> <td>Infrastructure</td> <td>0.01.0</td> </tr> <tr> <td>Un utilized area</td> <td>0.16.5</td> </tr> <tr> <td>Total</td> <td>9.94.5</td> </tr> </tbody> </table>	Description	Area put in use at the start of SOM (in Ha)	Area already degraded due to quarrying	8.73.0	Dumping	0	Storage of topsoil(including total afforested area of 0.27.0Ha)	0.94.0 (non afforested area of 0.67.0Ha and afforested area of 0.27.0Ha)	Roads(Haulage)	0.10.0	Infrastructure	0.01.0	Un utilized area	0.16.5	Total	9.94.5
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Total	9.94.5																		
8.	Period of quarrying proposed	:	Five Years																
9.	Type of mining	:	Opencast Mechanized Mining																
10.	Production (Quantity in m ³)	:	5,62,085 Tonnes of Limestone for the period of (2020-21 to 2024-25)																
11.	Depth of Mining (Present) Depth of Mining (Proposed) Total	:	24m 16m-18m 42m																
12.	Latitude & Longitude of all corners of the quarry site	:	11°7'3.76"N to 11°7'21.11"N 79°7'54.34"E to 79°8'11.61"E																
13.	Topo Sheet No.	:	58 M/4																
14.	Man Power requirement per day:	:	35 Employees																




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SEIAA-TN

15.	Precise area communication approved by the Government of Tamil Nadu with date	: G.O.Ms.No.1659 Industries Department dated: 05.12.1981 for the period of 20 Years. The lease deed was executed on 30.06.1986 and the lease expired on 29.06.2006. Project Proponent applied for renewal of mining lease dated 31.05.2005 for 10 Years. The mining operation continued deemed to have been extended under Rule 24A of Mineral Concession Rules, 1960. Now the lease period of this mine is taken upto 04.12.2031 as per the Sec 8A(5) of MMDR Act, 2015 and Rule 3 of the mineral (Mining by Government Company Rule 2015)
16.	Scheme of Mining Plan approved by the Regional Controller of Mines, Indian Bureau of Mines with date	: Lr. No. TN/ALR/MS/1339.MDS, dated 18.03.2016 Lr. No. TN/ALR/LST/ ROMP /1566. MDS, dated: 30.10.2019
17.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust Suppression & Green Belt (in KLD)	: 1.5 KLD 0.5 KLD Water Vendors 1.0 KLD Water Vendors
18.	Power requirement: a. Domestic Purpose b. Machinery Works	: TNEB Diesel



19.	Depth of water table	:	57m BGL
20.	Details of green belt (including lawn) area hectares		Greenbelt developed in 0.79.5 Ha out of the mine lease area of 9.94.5 Ha. At the End of the mining TAMIN will propose planting 1550 trees
21.	Provision for rain water harvesting		At the end of mine life 8.73.0 Ha area will be left for rain water storage
22.	Sensitive area		Vannankurichi RF-7.8Km (NE) Vilangudi RF-6.82Km(ESE) Nr.Ambapur RF-8.23 Km(ENE) Kallar River-2.27Km(W) Uppu Odai-4.57Km(SE)
23.	Project Cost (excluding EMP cost)	:	Rs.100Lakhs
24.	EMP cost	:	Capital cost-Rs.12.50Lakhs Recurring cost-Rs.2.50Lakhs per annum
25.	CER cost	:	Rs.4.98Lakhs

Validity:

The Environmental Clearance will be coterminous with the mine lease period or limited to a for the period of 5 Years with production quantity of 5,62,085 Tonnes of Limestone for the period of (2020-21 to 2024-25) from the date of issue of Environmental Clearance whichever is earlier.

Affidavit

The Proponent has furnished affidavit in one Fifty Rupees stamp paper attested by the Notary stating that

M/s. Tamil Nadu Minerals Limited, solemnly declare and sincerely affirm that:.




MEMBER SECRETARY
SEIAA-TN

For getting Environment Clearance to SEIAA, Tamil Nadu for Periyagalur Limestone Mine over an extent of 9.94.5 ha in S.F Nos. 292/4, 292/5, 292/6 301(P), 304/1, 305/1 & 306(P) of Periyagalur Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu swear to state and confirm that within 10Km area of the mine site. TAMIN has applied for environmental clearance and none of the following is situated.

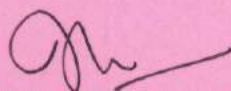
- a. Protected areas notified under the Wildlife (Protection) Act,1972
- b. Critically polluted areas as identified by CPCB constituted under Water (Prevention and Control of Pollution) Act,1974.
- c. Eco Sensitive areas as notified
- d. Interstate boundaries and international boundaries within 5Km radius from the boundary of the proposed site.

TAMIN will complete the following Corporate Environment Responsibility (CER) activities as directed by SEAC/SEIAA

Sl No	Beneficiary village and location	CER activities	Amount allocated in Rs
1.	Periyagalur Village Government school at Periyagalur	Infrastructure for Sanitation Facility / providing solar lights and green belt development in the Government school at Periyagalur Village, Ariyalur Taluk & District	Rs.4,98,000/-

1. There will not be any hindrance or disturbance to the people living on enroute/nearby my mine site while transporting the mined out material and due to mining / mining activities.
2. No approved habitations as per Rules 36(1) of Tamil Nadu Minor Mineral Concession Rules, 1959 located within 500 meters radius from the periphery of my mine.
3. We swear that afforestation will be carried out during the course of mining operation and maintained.




MEMBER SECRETARY
SEIAA-TN



4. The required insurance will be taken in the name of the labourers working in my mine site.
5. We will not engage any child labour in my mine site.
6. All type of Safety / protective equipments will be provided to all the labourers working in my mine.
7. No approved permanent structures, temples etc are located within 500m radius from the periphery of my mine.
8. The mining activity will be carried out only after obtaining environmental clearance.

We ensure to do all the Social and Environmental commitment as mentioned in the Mining Plan to the best of my knowledge.

M/s. Tamil Nadu Minerals Limited, Periyagalur Limestone Mine over an extent of 9.94.5 ha in S.F Nos. 292/4, 292/5, 292/6 301(P), 304/1, 305/1 & 306(P) of Periyagalur Village, Ariyalur Taluk, Ariyalur District., Tamil Nadu State., hereby take oath and state as under in this affidavit:

“In compliance of the Ministry’s OM No. 3-50/2017-IA.III (Pt) dated, 30th May 2018 comply with all the statutory requirements and judgment of Hon’ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No.114/2014 in the matter of Common Cause versus Union of India and Ors. Before grant of ToR/EC and I am also to commit, not to repeat any such violation in future. In case of any violation of the above the ToR/Environmental Clearance shall be liable to be terminated forthwith”.

Appraisal by SEAC:-

The proposal was placed along with the EIA report in the 142nd SEAC Meeting held on 21.01.2020. Based on the presentation made by the proponent, SEAC decided to inspect the site in order to assess the field conditions by the sub-committee constituted by SEAC since the project falls under the violation category.




MEMBER SECRETARY
SEIAA-TN



The proposal placed before the 151st SEAC meeting held on 11.05.2020 along with the inspection report of the sub-committee. After the detailed discussion, the SEAC decided to follow the guideline which was decided by the last Authority. The SEAC was classified the level of damages by TAMIN using the following criteria in the Joint Meeting (SEIAA & SEAC) held on 14.03.2017.

A Guideline for the fixation of bank guarantee for Ecological damages, Nature resource augmentation plan and Community resource augmentation plan for the mining proposals filed under the violation notification dated: 08.03.2018

Based on the above said guidelines this project comes under high violation category.

The Committee observed that the project by existing limestone mining lease over an extent of 9.94.5ha S.F.Nos. 292/4, 292/5, 292/6, 301(P), 304/1, 305/1 and 306(P) of Periyagalur Village, Ariyalur Taluk, Ariyalur District by M/s. Tamil Nadu Minerals Ltd., comes under the "High level Ecological damage category". The Committee decided to recommend the proposal to SEIAA for grant EC subject to the following conditions in addition to the normal conditions:

1. The amount prescribed for Ecological remediation (Rs. 4.98 lakhs), natural resource augmentation (Rs.5.97 lakhs) & community resource augmentation (Rs. 7.46 lakhs), totalling to Rs. 18.41 lakhs shall be remitted in the form of bank guarantee to Tamil Nadu Pollution Control Board, before obtaining Environmental Clearance and submit the acknowledgement of the same to SEIAA-TN. The funds should be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
3. The project proponent shall utilize CER amount of Rs.4.98 lakhs for providing infrastructure for sanitary facility/ providing solar lights and green belt development in



the Government School at Perianagalur Village, Ariyalur Taluk& District and the project proponent shall submit the proof for the same to SEIAA before the issue of Environment Clearance.

4. M/s. Tamil Nadu Minerals Ltd., Chennai should install cautionary board at the entry and important location of the mining site displaying warning to the public about the danger of the entering the limestone mining areas
5. Lateral benching (steps) to be provided at the mined area considering the existing depth of 24m in the mined area
6. Fencing all along the mined areas at the both portions to be revamped and made a continuous one without any gap or space to prevent entry of the people and animal in to the mined site.
7. Bio-fencing (thick vegetation cover) to be developed along the boundaries of the mined area.
8. Water in the mined pit area to be supplied to the kanmaai (tank) and the suitability of this mined water supplied to the surrounding areas need to be checked for agricultural and domestic application.
9. Safety precautionary measures for all the employs working in the mines should be practiced and strictly to be followed
10. Fugitive emission to be monitored on weekly basis and the compiled 6 monthly report to be submitted to SEAC and TNPCB.
11. The mitigation measures for the fugitive emission during drilling and cutting operation of rocks to be adopted at the site.
12. Noise measurement also should be measured on a weekly basis and the report to be submitted to TNPCB on 6 monthly basis.
13. Regular medical checkup of the all the employs to be carried out, specifically with respect to dust exposure levels and mitigation measures taken by M/s. Tamil Nadu Minerals Ltd., Chennai for minimizing the dust exposure level on the worker and improving their health conditions to be furnished to the competent authority. It is




MEMBER SECRETARY
SEIAA-TN

recommended that future necessary caution needs to be taken regarding environment and ecological damage and protection as per the norms

14. The project proponent shall form the proper benches during the operation of quarry.
15. During rainy season, project proponent shall supply a water to the farmers from the quarry after achieving the standards for irrigation purpose.
16. The project proponent shall provide more greenbelt in the periphery of the mining area.
17. The project proponent shall submit the proof for the credible action taken by the state Government/TNPCB against project proponent under the provisions of section19 of the Environment (Protection) Ac, 1986 before placing the subject to SEIAA.

Discussion by SEIAA and the Remarks:-

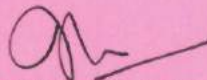
The proposal was placed before the SEIAA in its 417th Meeting held on 04.01.2021, 05.01.2021 & 06.01.2021. The Authority unanimously accepted the recommendation of the SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC and subject to normal conditions in addition to following additional conditions.

As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020, the proponent shall furnish the detailed EMP mentioning all the activities as proposed for Rs. 4.98 lakhs for providing infrastructure for sanitary facility/providing solar lights and green belt development in the Government School at Perianagalur Village, Ariyalur Taluk & District as reported. The CER activities shall be carried out before obtaining CTO from TNPCB.

Part -A : Conditions to be compiled before commencing mining operations

- I. The project authorities shall advertise in two widely circulated local newspapers, one of which shall be in the vernacular language of the locality concerned informing the public that
 - I. The project has been accorded Environmental Clearance.
 - II. Copies of Clearance letters are available with the Tamil Nadu Pollution Control Board.




MEMBER SECRETARY
SEIAA-TN



- III. Environmental Clearance may also be seen on the website of SEIAA.
- IV. The advertisement should be made within 7 days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the SEIAA.

Conditions for Pre – Mining operation:

- i) “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.
- ii) The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of three year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
- iii) In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained. No change in mining technology and scope of working should be made without prior approval of the State Environmental Impact Assessment Authority. No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.
- iv) 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).
- v) 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.
- vi) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil





MEMBER SECRETARY
SEIAA-TN



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.

- vii) All required sanitary and hygienic measures should be in place before starting mining.
- viii) The company shall stress upon the preventive aspects of occupational health.
- ix) Provision shall be made for the housing of mining labour with all necessary infrastructure and facilities such as, mobile toilets, Safe drinking water, medical health care, crèche etc.
- x) 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, TN and a copy of the same should be forwarded to the TNPCB located at Chennai.
- xi) A separate environment and safety management cell with qualified staff shall be set up before commissioning of mining activities and shall be retained throughout the lifetime of the mine, for implementation of the stipulated environmental safeguards.
- xii) 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.
- xiii) A scientific site/ ecological rehabilitation and restoration plan on long term basis should be drawn to carryout restoration with native species and Bio diversity.
- xiv) The existing water bodies should not be disturbed to ensure sustainable




MEMBER SECRETARY
SEIAA-TN



environment for aquatic life forms.

- xv) The proponent should completely implement all environmental pollution control measures as detailed in the EIA report and in the additional report.
- xvi) Regarding CSR activities, the proponent should concentrate more on infrastructure facilities useful to the local community. They should include skill development and sports as some of the activities in this regard.
- xvii) 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 PHC & 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.

Conditions for Construction/Mining Phase

- I. Non - Conventional open-cast mining deploying mega rock breakers shall be adopted as reported for the mining of limestone. No Drilling or Blasting shall be done during mining operations.
- II. To furnish to the SEIAA for one year period:
 - a. Report on quality and quantity of ground water to be generated during mining operations.
 - b. Comparative statement on normal ground water and mined out water with respect to qualities & suitability for agriculture etc for one year period.
- III. 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 TNPCB, Chennai and SEIAA-TN.
- IV. 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.





MEMBER SECRETARY
SEIAA-TN

- V. 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 TNPCB, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.
- VI. The proponent shall conduct AAQ Monitoring Survey once in 6 months in the locations furnished in the EIA report and furnish report to the TNPCB, Chennai.
- VII. The critical parameters such as RSPM (PM_{2.5}, P.M₁₀) 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.
- VIII. Data on ambient air quality [(RSPM and NO_x] shall be regularly submitted to the TNPCB at Chennai and the SEIAA/SPCB/CPCB once in six months.
- IX. 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.



- X. 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.
- XI. Regular medical check-up for mine workers and nearby residents around the project site involving community medical centre/NIMH shall be conducted.
- XII. As per norms, the health study should be conducted through competent/approved health organization and report submitted for one year.
- XIII. Corpus fund created should ne prioritized and utilized for health issues.
- XIV. 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.
- XV. 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.
- XVI. 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.
- XVII. Separate drain shall be constructed in between waste dump (bund) and nearby river course, if any, to avoid silting in the water body.




MEMBER SECRETARY
SEIAA-TN

- XVIII. 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.
- XIX. 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.
- XX. 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.
- XXI. 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.
- XXII. Annual monitoring on Bio-diversity around the project site shall be conducted and a report shall be furnished.
- XXIII. 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. Greenbelt shall be developed all along the mine lease area in a phased manner as per the approved mining plan.





MEMBER SECRETARY
SEIAA-TN



- XXIV. Green belt shall be provided as per norms of MoEF & CC, GOI, in consultation with local DFO.
- XXV. 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.
- XXVI. 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.
- XXVII. 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.
- XXVIII. Depth of water table of the wells located inside the mining area and wells located around the monitoring area shall be monitored regularly.
- XXIX. CSR activity shall include providing social & welfare measures for the local residents & nearby villages around the mine area. It shall focus on providing water supply and sanitation facility to the nearby government schools around the mine area and maintenance of village roads, ponds, providing solar street lights etc. Funds earmarked for CSR activity shall be used for that purpose




MEMBER SECRETARY
SEIAA-TN



only and separate account shall be maintained and report on implementation shall be furnished regularly.

- XXX. The points raised in public hearing and concerns shall be addressed without fail as per action plan submitted to SEIAA.

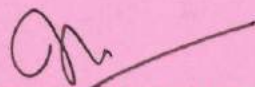
Conditions for Post Mining / Operation Phase & Entire life of the project:

- i. It is mandatory for the project proponent to furnish to the SEIAA, Half yearly compliance report in hard and soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance, and also before commencement of production.
- ii. No expansion or modernization in the project shall be carried out without prior approval of the SEIAA-TN. In case of any deviations or alterations in the project proposal from those submitted to 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.
- iii. All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.
- iv. The implementation of the project vis-à-vis environmental action plans shall be monitored by the TNPCB at Chennai/TNPCB/CPCB. A six monthly compliance status report shall be submitted to monitoring agencies regularly.
- v. Data on ambient air, stack and fugitive emissions shall be regularly submitted online to the 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.




- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Mines Act.
- vii. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee should be maintained separately
- viii. 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 generation. The ambient noise levels should conform to the standards prescribed under E(P)Act 1986 viz. 55 dBA (day time) and 45 dBA (night time).
- ix. The project proponent shall regenerate / preserve water body located at about 5.0 km from the propose site at its own expenses. The project proponent shall also develop village ponds in addition and shall ensure that the existing ponds in and around 5.0 Km radius are well maintained.
- x. 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.
- xi. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- xii. 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.




MEMBER SECRETARY
SEIAA-TN

- xiii. 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 located at Chennai.
- xiv. The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.
- xv. 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.
- xvi. 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.
- xvii. 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.
- xviii. 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.




MEMBER SECRETARY
SEIAA-TN



- xix. 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.


MEMBER SECRETARY
SEIAA-TN

Copy to :

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

