



**Thiru. K.V. GIRIDHAR, 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.7541/1(a)/EC.No:4403/2020 dated:08.10.2020

To

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

Sir/Madam,


Sub: SEIAA-TN – Proposed Silica Sand Quarry Project lease over an Extent 2.77.0Ha of Government Poramboke Land in S.F.Nos.319/1 & 319/5 of Mudaliyarkuppam Village, Cheyyur Taluk, Chengalpattu district(erstwhile Kancheepuram District) Tamil Nadu by M/s. Tamil Nadu Minerals Ltd.(Govt of Tamil Nadu Undertaking) - issue of Environmental Clearance – Reg.

- Ref:**
1. Online proposal No.SIA/TN/MIN/152798/2020, Dated: 08.02.2020.
 2. Your Application for Environmental Clearance dated: 08.05.2020.
 3. Minutes of the 154th SEAC meeting held on 10.06.2020
 4. Proponent reply dated: 23.07.2020.
 5. Minutes of the 166th SEAC meeting held on 30.07.2020.
 6. Proponent reply dated: 28.08.2020.
 7. Minutes of the 173rd SEAC meeting held on 10.09.2020.
 8. Minutes of the 402nd SEIAA meeting held on 07.10.2020.

Details of Minor Mineral Activity:-

This has reference to your application second cited. The proposal is for obtaining Environmental Clearance for mining/quarrying of minor minerals based on the particulars furnished in your application as shown below




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1	Name of Project Proponent and address	M/s. Tamil Nadu Minerals Limited, No.31, Kamarajar Salai, Chepauk, Chennai - 600 005.
2	Location of the Proposed Activity	
	Survey Number	SF No. 319/1 : 0.97.0 Ha SF No. 319/5 : 1.80.0 Ha Total : 2.77.0 Ha
	Latitude and Longitude	12°19'19.48"N to 12°19'28.77"N 80°01'06.09"E to 80°01'17.66"E
	Village	Mudaliyarkuppam Village
	Taluk	Cheyyur Taluk
	District	Chengalpattu District (erstwhile Kancheepuram District)
3	Proposed Activity	
	i. Minor mineral	Silica Sand
	ii. Mining Lease Area	2.77.0 Ha
	iii. Approved quantity	Production: 5532 Tonnes/annum
	iv. Depth of Mining	Depth of mining from 7.5m to 11m
	v. Type of mining	Open cast Semi-mechanized
	vi. Category(B1/B2)	B2
	vii. Precise area communication approved by the Government of Tamil Nadu Industries Department with date	Letter No.8855/MMC.2/2019-1 dated 24.01.2020
	viii. Mining Plan approved by the Joint Director of Geology and Mining, Chennai with date	Letter Rc.No.3506/MM7/2019, dated.18.03.2020
	ix. Mining period	5 years
4	Whether Project area attracts any General conditions specified in the EIA notification, 2006 as amended:-	Not attracted. Affidavit furnished.
5	Man Power requirement per day:	26 Employees



[Signature]
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6	Utilities	
	i. Source of Water :	Water Vendors & Existing Bore well
	ii. Quantity of Water Requirement in KLD:	1.5 KLD
	a. Domestic & Drinking purpose	1.0 KLD
	b. Green Belt & Dust Suppression	0.5 KLD
	iii. Power Requirement:	
	a. Domestic Purpose	TNEB
7	Cost	
	i. Project Cost	Rs. 67.25 Lakhs
	ii. EMP Cost	Rs. 1.55 Lakhs
8	<u>Validity:</u>	
	This Environmental Clearance is granted for the Production of 5532 Tonnes/annum of silica sand for the period of 5 Years from the date of execution of the mining lease.	

Affidavit

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

I, M/s. Tamil Nadu Minerals Limited, No.31, Kamarajar Salai, Chepauk, Chennai - 600 005, solemnly declare and sincerely affirm that:

I have applied for getting Environmental Clearance to SEIAA, Tamil Nadu for mining lease for mining Silica Sand Quarry Project lease over an Extent 2.77.0Ha of Government Poramboke Land in S.F.Nos.319/1 & 319/5 of Mudaliyarkuppam Village, Cheyyur Taluk, Chengalpattu district(erstwhile Kancheepuram District), Tamil Nadu.

I swear to state and confirm that within 10km area of the quarry site, I 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.
- Eco – Sensitive areas as notified.
- Interstate boundaries within 10km radius from the boundary of the proposed site.




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1. I will complete the following Corporate Environment Responsibility (CER) activities before commencement of the quarrying activities.

CER Activity	Project Cost (Rs. In Lakhs)	CER Cost 2.0% of project cost (Rs. In Lakhs)
Providing the Sanitation facilities & drinking water facilities for Government School, Mudaliyarkuppam Village	67.25	1.38
Total cost Allocation	67.25	1.38

2. No quarries /mines are located within 500m radius from periphery of my mine.
3. There will not be hindrance or disturbance to the people living on enrooted/ nearby my mine site while transporting the mined out material and due to mining/ mining activities.
4. No approved habitations as per Rules 36 (1) of Tamil Nadu Minor Mineral Concession Rules, 1959 located within 500m radius from the periphery of my mine.
5. I swear that afforestation will be carried out during the course of quarrying operation and maintained.
6. The required insurance will be taken in the name of the labourers working in my mine site.
7. I will not engage any child labour in my mine site.
8. All types of safety / protective equipments will be provided to all the labourers working in my mine.
9. No approved permanent structures, temples etc located within 500m radius from the periphery of my mine.
10. The mining activity will be carried out only after obtaining Environmental Clearance.


I ensure to do all the social and Environment commitment as mentioned in the Mining Plan to the best of my knowledge.

Details of 500M radius Proposed quarry:

The Project Proponent has submitted a copy of the letter obtained from the Assistant Director(i.c) of Geology & Mining, Chengalpattu District in his Rc.No.696/Q2/2017 dt: 25.02.2020 has stated that the details of other quarries (Proposed / Existing / Abandoned Quarries) within a radius 500m from the boundary of the proposed quarry site as follows:

Existing Other quarries




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SEIAA-TN

Existing Other quarries

Sl.No	Name of the Owner	Village & Taluk	S.F. No	Extent (in Hects)	Lease Period	Remarks
Nil						

Proposed Area

Sl.No	Name of the Owner	Village & Taluk	S.F. No	Extent (in Hects)	Lease Period	Remarks
1	Tvl. Tamin Limited, Chennai -5.	Mudaliyarkuppam	319/1, 319/5	2.77.00	---	Under processing (Present Application)
Total				2.77.00		

Abandoned Area

Sl.No	Name of the Owner	Village & Taluk	S.F. No	Extent (in Hects)	Lease Period	Remarks
1.	Tvl. Tamin Limited, Chennai -5	Mudaliyarkuppam	295/1, 295/5, 319/1, 319/5	4.63.00	09.06.1993 to 08.06.2013	Lease Expired Application
Total				4.63.00		

Appraisal by SEAC:-

The proposal was placed in this 173rd SEAC Meeting held on 10.09.2020. After detailed deliberations, SEAC decided to recommend the proposal for grant of Environmental Clearance to SEIAA subject to the following conditions in addition to standard conditions stipulated by the MoEF&CC:

1. After mining is completed, proper levelling should be done by the Project proponent & Environmental Management Plan furnished by the Proponent should be strictly followed.
2. The proponent should erect fencing all around the boundary of the proposed area with gates for entry/exit as per the conditions and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Proper barrier to reduce noise level, dust pollution and to hold down any possible fly material (debris) should be established by providing green belt and/or metal sheets along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.




MEMBER SECRETARY
SEIAA-TN

4. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
5. The operation of the quarry should not affect the agriculture activities & water bodies near the project site.
6. Transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village road.
7. The Project Proponent shall comply with the mining and other relevant rules and regulations where ever applicable.
8. The proponent shall develop adequate green belt with native species on the periphery of the mine lease area before commencement of the mining activity, in consultation with DFO of the concern district/agriculture university.
9. 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.
10. The recommendation for the issue of Environmental Clearance is subject to the outcome of the Hon'ble NGT, Principal Bench, New Delhi in O.A No.186 of 2016 (M.A.No.350/2016) and O.A. No.200/2016 and O.A.No.580/2016 (M.A.No.1182/2016) and O.A.No.102/2017 and O.A.No.404/2016(M.A.No.758/2016, M.A.No.920/2016, M.A.No.1122/2016, M.A.No.12/2017 & M.A. No. 843/2017) and O.A.No.405/2016 and O.A.No.520 of 2016 (M.A.No. 981 /2016, M.A.No.982/2016 & M.A.No.384/2017).
11. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wild life as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance.
12. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of mining operation.
13. The mine closure plan submitted by the project proponent shall be strictly followed after the lapse of the mine.
14. The amount of Rs. 1,38,000/- shall be utilized as CER activities to carry out the work for providing the Sanitation facilities & drinking water facilities for Government School, Mudaliyarkuppam Village as reported before obtaining the CTO from TNPCB



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SEIAA-TN

15. The project proponent shall strictly follow the conditions imposed in the precise area communication letter issued by Industries (MMC.2) department vide Letter.No.8855/MMC.2/2019-1 dated 24.01.2020.
16. The project proponent shall strictly follow the conditions imposed in approved mining plan letter issued by Joint Director, Department of Geology of mining, Chennai vide Letter.No.8855/MMC.2/2019-1 dated 24.01.2020.
17. The project proponent shall follow the conditions imposed by DTCP in their letter dated 20.02.2020.

Discussion by SEIAA and the Remarks:-

The proposal was placed before the SEIAA in its 402nd Meeting held on 07.10.2020. After detailed discussion the Authority decided to grant Environmental Clearance subject to the conditions as recommended by the SEAC and subject to General conditions in addition to normal conditions.

1. All the condition imposed by the Joint Director, Department of Geology and Mining vide Rc. No.3506/MM7/2019 dated: 18.03.2020 should be strictly followed.
2. The EMP Cost shall be deposited in a nationalized bank by opening separate account and head wise expense statement shall be furnished to TNPCB with a copy to SEIAA annually.
3. 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 throw away plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.
4. A detailed post-COVID health management plan for workers as per ICMR and MHA guidelines or the State Govt. guideline may be followed and report shall be furnished.
5. If there is any change in the production or lease area application for amendment has to be submitted to SEIAA for further approval.

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

1. The project proponent shall advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language 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




MEMBER SECRETARY
SEIAA-TN

Board.

- III. Environmental Clearance may also be seen on the website of the 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.

2. The project proponent shall comply the conditions laid down in the Section V, Rule 36 of Tamil Nadu Minor Minerals Concession Rules 1959.
3. NOC from the Standing committee of the NBWL shall be obtained, if protected areas are located within 10 Km from the proposed project site.
4. A copy of the Environment Clearance letter shall be sent by the proponent to the concerned Panchayat, Town Panchayat / Panchayat union/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the proponent and also kept at the site, for the general public to see.
5. The proponent shall ensure that First Aid Box is available at site.
6. The excavation activity shall not alter the natural drainage pattern of the area.
7. The excavated pit shall be restored by the project proponent for useful purposes.
8. The proponent shall quarry and remove only in the permitted and approved areas.
9. The proponent shall do the quarrying as per the approved mining plan.
10. It shall be ensured that the quarrying operation shall be carried out between 7AM and 5 PM.
11. The proponent shall take necessary measures to ensure that there shall not be any adverse impacts due to quarrying operation on the nearby human habitations, by way of pollution to the environment.
12. The mined out pits should be backfilled wherever warranted and area should be suitably landscaped to prevent environmental degradation. The mine closure plan as furnished in the proposal shall be strictly followed. The District administration should ensure the fully implementation of mine closure plan before release of lease deed.
13. No drilling and blasting operation shall be carried out under any circumstances.
14. Free silica test should be conducted and reported.
15. Air Sampling at intersection point should be conducted and reported.
16. Bunds to be provided at the boundary of the project site.



**MEMBER SECRETARY
SEIAA-TN**

17. Rainwater shall be pumped out via settling tank only
18. The project proponent shall undertake plantation/afforestation work by planting the native species on all side of the lease area
19. Earthen bunds and barbed wire fencing around the pits all along the boundary shall be maintained.
20. The CSR funds should be channelized for planting programme, nature conservation support, tribal development and activities that support forest and environment.
21. As per MoEF & CC, GoI, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wildlife angle including clearance from obtaining committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site is located within 10KM from National Park and Sanctuaries.
22. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. A copy of action plan shall be submitted to the Regional Office of the Ministry of Environment and Forests, Chennai.
23. It shall be ensured that the total extent of Mining area including existing, abandoned and proposed shall not exceed 5 Ha within 500 meter radius from the boundary of this quarry within the mining lease period of this application. If the area exceeds, the applicant has to obtain fresh Environmental Clearance submitting EIA Study Report under Category "B1" (As per the order of Hon'ble NGT, PB, New Delhi in O.A No.186 of 2016 (M.A.No.350/2016), O.A. No.200/2016, O.A.No.580/2016 (M.A.No.1182/2016), O.A.No.102/2017, O.A.No.404/ 2016 (M.A.No. 758/2016, M.A. No. 920 /2016, M.A.No.1122/2016, M.A.No. 12/2017 & M.A.No.843/2017), O.A.No.405/2016 and O.A.No.520 of 2016 (M.A.No.981/2016, M.A.No.982/2016 & M.A.No.384/2017).
24. It shall be ensured that there is no habitation is located within 300 meter radius from the periphery of the quarry site.
25. Whenever/wherever, "Savudu" /" Red Earth" /"Brick Earth" are removed from tanks, the project proponents should see that the free flow of water from and into the tanks are ensured through maintenance of inlet and outlet channels. Removal Earth should be in smooth, sloppy way towards deeper portion of the tank.




MEMBER SECRETARY
SEIAA-TN

26. The Assistant/Deputy Director of Geology & Mining shall ensure that the total extent of mining area within 500m radius of this quarry not exceeds 5ha before execution of the quarry lease proceedings. (As per the order of Hon'ble NGT, PB, New Delhi in O.A No.186 of 2016 (M.A.No.350/2016), O.A. No.200/2016, O.A.No.580/2016 (M.A.No.1182/2016), O.A.No.102/2017, O.A.No.404/ 2016 (M.A.No. 758/2016, M.A. No. 920 /2016, M.A.No.1122/2016, M.A.No. 12/2017 & M.A.No.843/2017), O.A.No.405/2016 and O.A.No.520 of 2016 (M.A.No.981/2016, M.A.No.982/2016 & M.A.No.384/2017).
27. The Assistant Director of Geology & Mining shall monitor the quantity of minerals excavated and ensure that resources other than the approved minerals shall not be excavated from the approved Mining area. The Department of Geology & Mining is responsible for the enforcement of Tamil Nadu Minor Mineral Concession Rules, 1959 and any violation shall be punished according to the said Act.
28. The Proponent shall ensure that the project activity including mining transportation etc should in no way have adverse impact to the other forests, such as reserve forests and social forests, tree plantation and bio diversity, surrounding water bodies etc.
29. The Project Proponent is also directed to strictly adhere to the Sustainable Sand Mining Management Guidelines, 2016, wherever applicable.
30. The depth of the mining should be limited to the sill level of the sluice of the tank.
31. Floor of excavated pit should be levelled and sides to be sloped gently in the mine closure phase.
32. All the commitment made by the project proponent in the proposal shall be strictly followed.
33. The mining lease holder shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.


General Conditions:

1. EC is given only on the factual records, documents and the commitment furnished in non judicial stamp paper by the proponent.
2. The Proponent shall obtain the Consent from the TNPC Board before commencing the activity.



3. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Tamil Nadu.
4. No change in the calendar plan including excavation, quantum of mineral (minor mineral) should be made.
5. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
6. Effective safeguards shall be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation of earth.
7. A berm shall be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation.
8. 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 also have efficient dust control arrangements. These should be properly maintained and operated.
9. Vehicular emissions shall be kept under control and be regularly monitored. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
10. Access and haul roads to the quarrying area should be restored in a mutually agreeable manner where these are considered unnecessary after extraction has been completed.
11. All Personnel shall be provided with protective respiratory devices including safety shoes, masks, gloves etc. Supervisory people should 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.
12. 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. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.



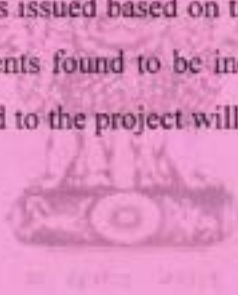

**MEMBER SECRETARY
SEIAA-TN**


13. Workers/labourers shall be provided with facilities for drinking water and sanitation facility for Female and Male separately.
14. The project proponent shall ensure that child labour is not employed in the project as per the sworn affidavit furnished.
15. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Chennai.
16. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.
17. This Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance
18. The SEIAA, Tamil Nadu may alter/modify the above conditions or stipulate any further conditions in the interest of environment protection.
19. The SEIAA, Tamil Nadu may cancel the Environmental Clearance granted to this project under the provisions of EIA Notification, 2006, 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.
20. 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.
21. 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, Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules,2006, Wildlife Protection Act, 1972, Forest



Conservation Act, 1980, Biodiversity Conservation Act, 2016, the Biological Diversity Act, 2002 and Biological diversity Rules, 2004 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.

22. Any other conditions stipulated by other Statutory/Government authorities shall be complied.
23. 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.
24. The Environmental Clearance is issued based on the documents furnished by the project proponent. In case any documents found to be incorrect/not in order at a later date the Environmental Clearance issued to the project will be deemed to be revoked/ cancelled.




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Copy to:

1. The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
2. The Additional Chief Secretary to Government, Environment and Forests Department, Tamil Nadu.
3. The Principal Secretary to Government, Industries Department, Tamil Nadu.
4. The Additional Principal Chief Conservator of Forests, Regional Office (SZ), 34, HEPC Building, 1st & 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai – 34.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
6. The Chairman, TNPC Board, 76, Mount Salai, Guindy, Chennai-32
7. The District Collector, Chengalpattu District
8. The Commissioner of Geology and Mines, Guindy, Chennai-32
9. EI Division, Ministry of Environment & Forests, Paryavaran Bhawan, New Delhi.
10. Spare.

