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THIRU A.V. VENKATACHALAM, I.F.S
MEMBER SECRETARY

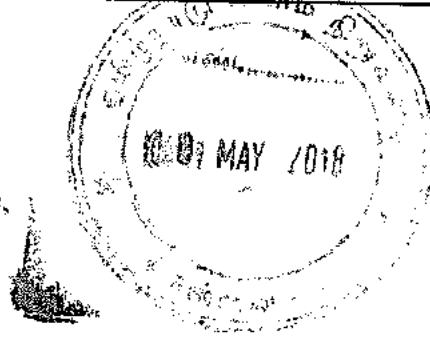
STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY - TAMIL NADU
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road, Saidapet,
Chennai-15.
Phone No.044-24359973
Fax No. 044-24359975

ENVIRONMENTAL CLEARANCE

Lr. No. SEIAA-TN/F.No.4389/EC/1(a)/3975/2018, dated: 30.04.2018

To

The Managing Director
Tamil Nadu Minerals Limited,
31, Kamarajar Salai, TWAD House,
Chepauk, P.B.No.2961,
Chennai - 600 005



18/5/18

Sir,

Sub: SEIAA-TN - Proposed **Colour Granite** quarry located at S.F.No 176/1 (Part), Chendarapalli Village, Bargur Taluk, Krishnagiri District- issue of Environmental Clearance - Reg.

- Ref:**
1. Your Application for Environmental Clearance dated: 20.10.2015
 2. Lr.No.SEIAA-TN/F-4389/SEAC/LXIX//ToR-233/2015 dated:19.11.2015
 3. Lr.No.SEIAA-TN/F-4389/SEAC/LXIX//ToR-233(A)/2015 dated:07.06.2017
 4. Your amendment request letter dated: 28.06.2017
 5. Minutes of the 228th SEIAA meeting held on 07.07.2017
 - 6.Lr.No.SEIAA-TN/F-4389/2016 dated: 07.07.2017
 7. Public Hearing Minutes received on 18.01.2018
 8. EIA report received on 16.02.2018
 9. Minutes of the 105th SEAC meeting held on 22.03.2018
 10. Lr.No.SEIAA-TN/F.No.4389/2015 dated:26.03.2018
 - 11.Your reply dated: 16.04.2018
 12. Minutes of the 109th SEAC meeting held on 24.04.2018
 13. Minutes of the 292nd SEIAA meeting held on 30.04.2018



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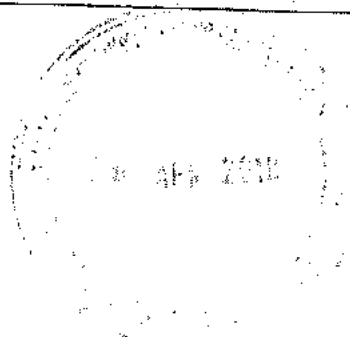
Details of Minor Mineral Activity:-

This has reference to your application first 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.

1	Name of Project Proponent and address	M/s. Tamil Nadu Minerals Limited, 31, Kamarajar Salai, TWAD House, Chepauk, P.B.No.2961, Chennai - 600 005
2	Location of the Proposed Activity	
	Survey Number	176/1(Part)
	Latitude and Longitude	12°29'25.49"N to 12°29'46.89"N 78°17'45.99"E to 78°17'58.95"E
	Village	Chendarapalli
	Taluk	Bargur
	District	Krishnagiri
3	Proposed Activity	
	i. Minor mineral	Colour Granite
	ii. Mining Lease Area	15.23.5 Ha
	iii. Approved quantity	12068 cu.m of Colour Granite
	iv. Depth of Mining	25 m
	v. Type of mining	Opencast Semi Mechanized Method
	vi. Category(B1/B2)	B1
	vii. Precise area communication	Lr. No. 14439/MME.1/2016-1 dated 02.02.2017 by Principal Secretary to Government
	viii. Mining plan approval	Director of Geology & Mining, Chennai Rc.No.3067/MM5/2016 dated: 12.04.2018
	ix. Mining lease period	20 Years
	x. Mining plan approved period	5 Years



4	Whether Project area attracts any General conditions specified in the EIA notification, 2006 as amended:-	Not attracted. Affidavit not furnished
5	Man Power requirement per day:	26 Employees
6	Utilities	
	i. Source of Water :	Water vendors/Borehole
	ii. Quantity of Water Requirement in KLD:	
	a. Domestic b. Industrial c. Green Belt & Dust Suppression	3.0KLD } 5.0KLD
	iii. Power Requirement: a. Domestic Purpose b. Industrial Purpose	TNEB
7	Cost	
	i. Project Cost	Rs.100 Lakhs
	ii. EMP Cost	Rs18 Lakhs
8	Public Consultation:-	Community hall, Thiruvannamalai Road, Jegadevi Village, Bargur Taluk, Krishnagiri District on 22.12.2017 at 10:00 AM
9	Date of Appraisal by SEAC:- Agenda No:	24.04.2018 109-08
10	Date of Review/Discussion by SEIAA and the Remarks:-	The proposal was placed before the SEIAA in its 292 nd Meeting held on 30.04.2018 and the Authority after careful consideration, decided to grant environmental clearance to the said project Mining of Grey Granite to terms and conditions stipulated under the provisions of Environment Impact Assessment Notification, 2006 as amended.
11	Validity:	This Environmental Clearance is granted to Mining of Colour Granite for the production quantity of 12068 cu.m of Colour Granite for the period of 5 Years from the date of execution of the Mining Lease period.



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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 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 District Collector shall ensure that the DSR (District Survey Report) shall be finalized before execution of mining lease, as per EIA Notifications 2016 as amended in 15.01.2016 and the copy of the revised/approved DSR may be sent to SEIAA for record.**
3. **Mining activity should be reviewed by the District Collector after one year and decide for further extension.**
4. **The proponent should strictly comply with all the conditions laid down in the mining plan approval letter by the Director of Geology and Mining, Chennai vide. Rc.No.3067/MM5/2016 dated: 12.04.2018.**
5. The applicant has to obtain land use classification as industrial use before issue/renewal of mining lease.
6. NOC from the Standing committee of the NBWL shall be obtained, if protected areas are located within 10 Km from the proposed project site.
7. The project proponent shall comply the conditions laid down in the Section V, Rule 36 of Tamil Nadu Minor Minerals Concession Rules 1959.
8. 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.

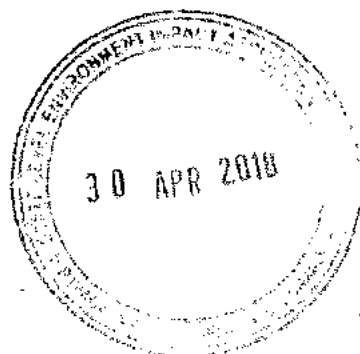


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9. Quarry lease area should be demarcated on the ground with wire fencing to show the boundary of the lease area on all sides with red flags on every pillar shall be erected before commencement of quarrying.
10. The proponent shall ensure that First Aid Box is available at site.
11. The excavation activity shall not alter the natural drainage pattern of the area.
12. The excavated pit shall be restored by the project proponent for useful purposes.
13. The proponent shall quarry and remove only in the permitted areas as per the approved Mining Plan details.
14. The quarrying operation shall be restricted between 7AM and 5 PM.
15. 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.
16. A minimum distance of 45 mts. From any civil structure shall be kept from the periphery of any excavation area.
17. Depth of quarrying shall be 2m above the ground water table /approved depth of mining whichever is lesser to be considered as a safe guard against Environmental Contamination and over exploitation of resources.
18. Wet drilling method is to be adopted to control dust emissions. Delay detonators and shock tube initiation system for blasting shall be used so as to reduce vibration and dust.
19. Blasting shall be done only either by licensed explosive agent or by the proponent after obtaining required approvals from Competent Authorities.
20. The explosives shall be stored at site as per the conditions stipulated in the permits issued by the licensing Authority.
21. Blasting shall be carried out after announcing to the public adequate through public address system to avoid any accident.
22. A study has to be conducted to assess the optimum blast parameters and blast design to keep the vibration limits less than prescribed levels and only such design and parameters should be implemented while blasting is done. Periodical monitoring of the vibration at specified location to be conducted and records kept for inspection.
23. The Proponent shall take appropriate measures to ensure that the GLC shall comply with the revised NAAQ norms notified by MoEF, GoI on 16.11.2009.

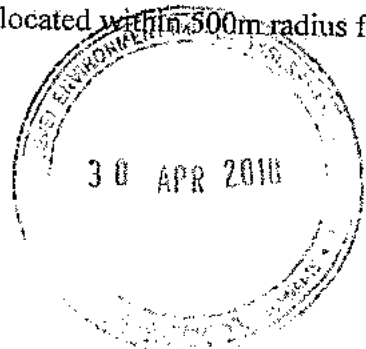

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24. The following measures are to be implemented to reduce Air Pollution during transportation of mineral
- i. Roads shall be graded to mitigate the dust emission.
 - ii. Water shall be sprinkled at regular interval on the main road and other service roads to suppress dust
25. The following measures are to be implemented to reduce Noise Pollution
- i. Proper and regular maintenance of vehicles and other equipment
 - ii. Limiting time exposure of workers to excessive noise.
 - iii. The workers employed shall be provided with protection equipment and earmuffs etc.
 - iv. Speed of trucks entering or leaving the mine is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.
26. Measures should be taken to comply with the provisions laid under Noise Pollution (Regulation and Control) (Amendment) Rules, 2010, dt: 11.01.2010 issued by the MoE&F, GoI to control noise to the prescribed levels.
27. Suitable conservation measures to augment groundwater resources in the area shall be planned and implemented in consultation with Regional Director, CGWB. Suitable measures should be taken for rainwater harvesting.
28. Permission from the competent authority should be obtained for drawl of ground water, if any, required for this project.
29. Topsoil, if any, shall be stacked properly with proper slope with adequate measures and should be used for plantation purpose.
30. The following measures are to be adopted to control erosion of dumps:-
- i. Retention/ toe walls shall be provided at the foot of the dumps.
 - ii. Worked out slopes are to be stabilized by planting appropriate shrub/ grass species on the slopes.
31. Waste oils, used oils generated from the EM machines, mining operations, if any, shall be disposed as per the Hazardous Wastes (Management, Handling, and trans boundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by TNPCCB.



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- 32. Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- 33. Rain water harvesting to collect and utilize the entire water falling in land area should be provided.
- 34. Rain water getting accumulated in the quarry floor shall not be discharged directly to the nearby stream or water body. If it is to be let into the nearby water body, it has to be discharged into a silt trap on the surface within the lease area and only the overflow after allowing settling of soil be let into the nearby waterways. The silt trap should be of sufficient dimensions to catch all the silt water being pumped out during one season. The silt trap should be cleaned of all the deposited silt at the end of the season and kept ready for taking care of the silt in the next season.
- 35. The lease holder shall undertake adequate safeguard measures during extraction of material and ensure that due to this activity, the hydro-geological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area during the mining operation. If at any stage, if it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out. District Collector/mining officer shall ensure this.
- 36. No tree-felling shall be done in the leased area, except only with the permission from competent Authority.
- 37. To take up environmental monitoring of the proposed quarry site before, during and after the mining activities including vibration study data, water, air & flora/fauna environment, slurry water generated/disposed and method of disposal, involving a reputed academic Institution.
- 38. It shall be ensured that the total extent of nearby quarries(existing, abandoned and proposed) located within 500 meter radius from the periphery of this quarry is not exceeding 25 hectares within the mining lease period of this application.
- 39. It shall be ensured that there is no habitation is located within 500 meter radius from the periphery of the quarry site and also ensure that no hindrance will be caused to the people of the habitation located within 500m radius from the periphery of the quarry site



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40. Ground water quality monitoring should be conducted once in 3 Months
41. Transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village road.
42. Free Silica test should be conducted and reported to TNPCB, Department of Geology and Mining and Regional Director, MoEF , GOI.
43. Air sampling at intersection point should be conducted and reported to TNPCB, Department of Geology and Mining and Regional Director, MoEF , GOI..
44. Bunds to be provided at the boundary of the project site.
45. Ground water quality monitoring should be conducted once in 3 Months
46. The project proponent shall undertake plantation/afforestation work by planting the native species on all side of the lease area at the rate of 400/Ha. The tree saplings shall be not less than 1m height. Suitable tall tree saplings should be planted on the bunds and other suitable areas in and around the work place. The tree saplings should be not less than 1m height.
47. At least 10 Neem trees and other native fruit bearing trees should be planted around the boundary of the quarry site.
48. Floor of excavated pit to be levelled and sides to be sloped with gentle slope (Except for granite quarries) in the mine closure phase.
49. The Project Proponent shall ensure a minimum of 2.5% of the annual profit will be utilized for the CSR Activity
50. The CSR funds should be channelized for planting programme, nature conservation support, tribal development and activities that support forest and environment.
51. The Project Proponent shall provide solar lighting system to the nearby villages
52. The Project Proponent shall comply with the mining and other relevant rules and regulations where ever applicable.
53. Rainwater shall be pumped out Via Settling Tank only
54. Earthen bunds and barbed wire fencing around the pits with green belt all along the boundary shall be developed and maintained.
55. As per MoEF&CC, GoI, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wild Life angle including clearance from obtaining committee of the National



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- Board for Wild life as applicable shall be obtained before starting the quarrying operation, if the project site is located within 10KM from National Park and Sanctuaries.
56. 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.
 57. Safety equipments to be provided to all the employees.
 58. Safety distance of 50m has to be provided in case of railway, reservoir, canal/odai.
 59. The Assistant/Deputy Director, Department of Geology & mining shall ensure that the proponent has engaged the blaster with valid Blasting license/certificate obtained from the competent authority before execution of mining lease.
 60. The proponent shall furnish the Baseline data covering the Air, Water, Noise and land environment quality for the proposed quarry site before execution of mining lease.
 61. The proponent shall erect the pillars in accordance with the Rules for depicting GPS details in the earmarked boundary of the quarry site to monitor electronically before execution of mining.
 62. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.
 63. The proponent has to display the name board at the quarry site showing the details of Proponent, lease period, extent, etc., with respect to the existing activity before execution of mining.
 64. Heavy earth machinery equipments if utilized, after getting approval from the competent authority.
 65. The Proponent has to carry out the Resistivity survey through authorized experts/institutes for Ground water table and based on the report, the Assistant/Deputy Director of Department of Geology & mining shall ensure that the depth of mining shall be restricted as per the MMCR, 1959 before execution of the mining lease.
 66. The Proponent shall ensure that the project activity including blasting, 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.



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67. The Project Proponent is also directed to strictly adhere to the Sustainable Sand Mining Management Guidelines, 2016, wherever applicable.
68. The quarrying activity in no way should disturb the Wildlife habitat, free migratory movement of the wildlife nor disturb the wildlife in any way.
69. The project proponent should spent minimum of 5% of and more on turnover for restoration at the periphery of reserved forest/ community forest towards environmental protection. The fact of expenditure of work carried out for restoration should be reported to District Administration / MoEF & CC / SEIAA with photo documents for records.
70. The EMP Cost shall be deposited in a nationalized bank by opening separate account head wise expense statement shall be furnished to TNPCB with a copy to SEIAA annually.
71. Use of explosives to be kept at minimum for development purposes. The scientific studies involving blast induced ground vibration need to be carried up before the commencement of the mining to design the suitable controlled blasting technique which will also ensure that no flying fragments are produced.
72. In case of non-explosive techniques such as wire-cutting used during the mining operation, the employers shall be provided with adequate protective measures against the dust and noise pollution. Similarly, proper measures shall be taken to ensure that the aforesaid dust and noise pollution shall not travel towards the nearby habitations at any cost.
73. The slope of the working benches shall be properly maintained based on the scientific studies carried out in respect of slope stability from a reputed scientific research institution such as National Institute of Rock Mechanics, Bangalore or any other reputed institutions.
74. Similarly, the management shall ensure that the employment opportunities are given to the locals.
75. The activity of the proposed quarrying site should not affect the movement of Fauna and avifauna.
76. The activity of the proposed quarrying should not disturb the local water bodies and agricultural activities surrounding site.



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77. Overburden of the reject shall be kept in the quarrying site and that area shall be planted with indigenous species of plant.
78. The rejects and the fines from the products shall be exclusively dumped within the premises and it shall be used only for the closure activities.
79. There shall be not less than two ambient air quality & noise station each and shall operate twice in a week covering the mining operations.
80. Two ground water samples which are covered in the EIA study shall be continued to monitor for taking samples once in three months.
81. The cost for afforestation shall be not less than Rs. 1 Lakh with maintenance for 5 Years.
82. There shall not be any disturbance to the nearby reserve forests and water bodies.
83. Drilling operations during the mining activity shall be staggered so that there shall not be any adverse impact to the neighbouring habitations and wild life in the reserve forest.
84. Coolant oil used in the mining operations shall be properly collected and disposed as per the Hazardous Waste Management Rules, 2016.
85. The spilling of oil in the mining area shall be strictly collected.
86. The rejects from the mining activity shall not find access to the neighbouring habitations.
87. Enough soil conservation measures to provide, micro catchment for rain water harvesting and to prevent soil erosion and damage to the neighbouring lands to be executed.
88. The activities should in no way disturb or degrade the bio diversity.
89. It is subjected to the conditions of the MMDR Rules, 1957, Mines act, 1952 & Tamil Nadu Minor Mineral Concession rule as applicable besides usual general terms and conditions.
90. The mining activities should not disturb the Ponnaiyar river, Mattur Ar, Badatalav eri.
91. The migratory pathway of wildlife like elephants should not be disturbed due to mining activities.
92. There should be no disturbance to forests in the vicinity like Varatanapali RF, Bargur RF, Togarappalli RF, etc.
93. There should be no disturbance to the 55 tree species from 22 families in the buffer zone followed by 25 shrub species from 17 families, 31 species of herb from 17 families, 9

climber species from 5 families, 10 grass species from 2 families, due to the mining activities

General Conditions:

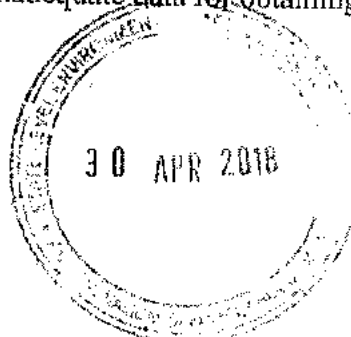
1. EC is given only on the factual records, documents and the commitment furnished in non judicial stamp paper by the proponent.
2. The Proponent shall obtain the Consent for Establishment from the TNPC Board before commencing the activity.
3. No change in mining technology and scope of working should 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.



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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.
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.



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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, Biological diversity Act, 2002, 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.
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.

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Copy to:

1. The Secretary, Ministry of Mines, Government of India, ShastriBhawan, New Delhi.
2. The Principal Secretary, Environment and Forests Department, Government of Tamil Nadu, Tamil Nadu.
3. The Additional Chief Secretary, Industries Department, Government of Tamil Nadu, 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, PariveshBhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.



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6. The Chairman, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-32
7. The District Collector, Krishnagiri District
8. The Commissioner of Geology and Mines, Guindy, Chennai-32
9. EI Division, Ministry of Environment & Forests, Paryavaran Bhawan, New Delhi.
10. Spare.



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TMT. ROHINI. R. BHAJIBHAKARE., I.A.S.,
CHAIRMAN/
DISTRICT COLLECTOR.

Salem District Environment Impact
Assessment Authority,
Room No.206B,
Collectorate,
Salem-636 001.

ENVIRONMENTAL CLEARANCE

Lr.No.DEIAA-DIA/TN/MIN/10878/2017-SLM-EC.No.13/2017dated 17.05.2018

To,

Tvl. Tamil Nadu Minerals Limited,
No.31,Kamarajar Salai,
TWAD House, Chepauk,
Chennai-600 005.

Sir,

Sub: DEIAA - Proposed - Black Granite - quarry located at S.F.No. 3(Part)
- OAE 4.00.0 Hects. - Kaveripuram Village - Mettur- Salem
District. Tvl. Tamil Nadu Minerals Limited-Issue of
Environmental Clearance - Reg.

- Ref: 1. Your application for Environment Clearance, date of online
application submitted to DEIAA, dated 14.11.2017 and date of
receipt of application 14.11.2017.
2. Minutes of the DEAC meeting No.04 held on date 23.03.2018.
3. Minutes of the DEIAA meeting No.04 held on date 23.04.2018.

Details of Minor mineral Activity:-

This has reference to your application first cited. The proposal is for obtaining Environmental Clearance for mining / quarrying of category 'B2' minor mineral based on the particulars furnished in your application as shown below:

1	Name of Project Proponent and address	:	Tvl. Tamil Nadu Minerals Limited, No.31,Kamarajar Salai, TWAD House, Chepauk, Chennai-600 005.
2.	Location of the Proposed Activity	:	
	Survey Number	:	S.F.No.3(Part)
	Latitude and Longitude	:	N11°56'23.20 to 11°56'32.00 E77°41'09.71 to 77°41'18.49
	Village	:	Kaveripuram
	Taluk	:	Mettur
	District	:	Salem

3.	Proposed Activity		
	i.	Minor Mineral	: Black Granite
	ii.	Quarrying Lease Area	: 4.00.0 Hects.
	iii.	Approved quantity	: Black Granite=8,880 CBM
	iv.	Depth of quarrying	: 6 M
	v.	Type of quarrying	: Open cost, Semi-mechanized
	vi.	Category (B1/ B2)	: "B2" category.
	vii.	Precise Area Communication	: 8632/MM5/2017 dated 06.02.2018.
	viii.	Mining Plan approval	: The CGM letter No.8632/MM5/2017 dated 06.02.2018.
	ix.	Quarrying lease 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:		: 35- Nos.
6.	Utilities		
	i.	Source of Water	: Water vendors/ Existing borehole
	ii.	Water requirement" 1. Drinking & domestic purposes (in KLD) 2. Dust suppression & GreenBelt (in KLD)	: 0.8 KLD 0.7 KLD
	iii.	Power requirement: a. Domestic purposes b. Industrial Purpose	: Diesel will be utilized for operating compressors and other machineries. Electricity will be used only for administrative building.
7.	Cost		
	i.	Project cost	: Rs.97,92,000/-
	ii.	EMP cost	: Rs.2,05,000-
8.	Public Consultation		: Not required as per O.M. dated 24.12.2013 of MoEF, GOI
9.	Date of Appraisal by DEAC: Agenda No.		: 23.03.2018 4 th Meeting-01
10.	Date of review / discussion by DEIAA and the Remarks:- The proposal has been recommended by Sub-Divisional committee and DEAC. The proposal was placed before the DEIAA in its DEIAA meeting No.4 held on 23.04.2018 and the Authority after careful consideration, decided to grant Environmental Clearance to the said project Mining of "Black Granite" subject to terms and conditions stipulated under the provisions of Environment Impact Assessment Notification, 2006 as amended.		
11.	Validity: This Environmental Clearance is granted to quarrying of "Black Granite" for the production quantity of 8,880 CBM Black Granite for the period of "five years" from the date of grant of EC.		

Conditions to be Complied before / during commencing quarrying 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 Board.
 - iii) Environmental Clearance may also be seen on the website of the District Level Environment Impact Assessment Authority.
 - 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 DEIAA.
2. The applicant has to obtain land use classification as industrial use before issue/renewal of mining lease.
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. The project proponent shall comply the conditions laid down in the Section V, Rule 36 of Tamil Nadu Minor Mineral Concession Rules, 1959.
5. 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.
6. Quarry lease area should be demarcated on the ground with wire fencing to show the boundary of the lease area on all sides with red flags on every pillar shall be erected before commencement of quarrying.
7. The proponent shall ensure that First Aid Box is available at site.
8. The excavation activity shall not alter the natural drainage pattern of the area.
9. The excavated pit shall be restored by the project proponent for useful purposes.
10. The proponent shall quarry and remove only in the permitted areas as per the approved Mining Plan details.
11. The quarrying operation shall be restricted between 7 AM and 5 PM.
12. 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.
13. A minimum distance of 15 mts. from any civil structure shall be kept from the periphery of any excavation area.
14. Depth of quarrying shall be 2m above the ground water table /approved depth of mining whichever is lesser to be considered as a safe guard against Environmental Contamination and over exploitation of resources.
15. The mined out pits should be backfilled where warranted and area should be suitably landscaped to prevent environmental degradation. The mine closure plan as furnished in the proposal shall be strictly followed with back filling and tree plantation
16. Wet drilling method is to be adopted to control dust emissions. Delay detonators and shock tube initiation system for blasting shall be used so as to reduce vibration and dust.

17. Drilling and blasting shall be done only either by licensed explosive agent or by the proponent after obtaining required approvals from Competent Authorities.
18. The explosives shall be stored at site as per the conditions stipulated in the permits issued by the licensing Authority.
19. Blasting shall be carried out after announcing to the public adequate through public address system to avoid any accident.
20. A study has to be conducted to assess the optimum blast parameters and blast design to keep the vibration limits less than prescribed levels and only such design and parameters should be implemented while blasting is done. Periodical monitoring of the vibration at specified location to be conducted and records kept for inspection.
21. The Proponent shall take appropriate measures to ensure that the GLC shall comply with the revised NAAQ norms notified by MoEF, GoI on 16.11.2009. (GLC = Ground Level Concentration), (NAAQ = Noise and Ambient Air Quality)
22. The following measures are to be implemented to reduce Air Pollution during transportation of mineral
 - (i) Roads shall be graded to mitigate the dust emission.
 - (ii) Water shall be sprinkled at regular interval on the main road and other service roads to suppress dust.
23. The following measures are to be implemented to reduce Noise Pollution
 - (i) Proper and regular maintenance of vehicles and other equipment.
 - (ii) Limiting time exposure of workers to excessive noise.
 - (iii) The workers employed shall be provided with protection equipment and earmuffs etc.
 - (iv) Speed of trucks entering or leaving the mine is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.
24. Measures should be taken to comply with the provisions laid under Noise Pollution (Regulation and Control) (Amendment) Rules, 2010, dt: 11.01.2010 issued by the MoE&F, GoI to control noise to the prescribed levels.
25. Suitable conservation measures to augment groundwater resources in the area shall be planned and implemented in consultation with the Assistant Director, Ground Water Division, PWD, Salem.
26. Suitable measures should be taken for rainwater harvesting.
27. Permission from the competent authority should be obtained for drawl of ground water, if any, required for this project.
28. Topsoil, if any, shall be stacked properly with proper slope with adequate measures and should be used for plantation purpose.
29. The following measures are to be adopted to control erosion of dumps:-
 - (i). Retention/ toe walls shall be provided at the foot of the dumps.
 - (ii). Worked out slopes are to be stabilized by planting appropriate shrub/ grass species on the slopes.
30. Waste oils, used oils generated from the EM machines, mining operations, if any, shall be disposed as per the Hazardous Wastes (Management, Handling, and trans boundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by TNPCB.

- 31. Rain water harvesting to collect and utilize the entire water falling in land area should be provided.
- 32. Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- 33. Rain water getting accumulated in the quarry floor shall not be discharged directly to the nearby stream or water body. If it is to be let into the nearby water body, it has to be discharged into a silt trap on the surface within the (lease area and only the overflow after allowing settling of soil be let into the nearby waterways. The silt trap should be of sufficient dimensions to catch all the silt water being pumped out during one season. The silt trap should be cleaned of all the deposited silt at the end of the season and kept ready for taking care of the silt in the next season.
- 34. The lease holder shall undertake adequate safeguard measures during extraction of material and ensure that due to this activity, the hydro-geological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area during the mining operation. If at any stage, if it is observed that the ground water table is getting depleted due to the quarrying activity; necessary corrective measures shall be carried out. The Assistant Director Ground water Division, PWD Salem shall monitor, the ground water related issues.
- 35. No tree-felling shall be done in the leased area, except only with the permission from competent Authority.
- 36. To take up environmental monitoring of the proposed quarry site before, during and after the mining activities including vibration study data, water, air & flora/fauna environment, slurry water generated/disposed and method of disposal, involving a reputed academic institution.
- 37. It shall be ensured that the total extent of nearby quarries (existing, abandoned and proposed) located within 500 meter radius from the periphery of this quarry is not exceeding 25 hectares within the mining lease period of this application.
- 38. It shall be ensured that there is no habitation is located within 500 meter radius from the periphery of the quarry site and also ensure that no hindrance will be caused to the people of the habitation located within 500m radius from the periphery of the quarry site
- 39. Ground water quality monitoring should be conducted once in 3 Months.
- 40. Transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village road.
- 41. Free Silica test should be conducted and reported to TNPCB, Department of Geology and Mining and Regional Director, MoEF, GOI **once in three months.**
- 42. Air sampling at intersection point should be conducted and reported to TNPCB, Department of Geology and Mining and Regional Director, MoEF, GOI **periodically once in six months.**
- 43. Bunds should be provided at the boundary of the project site **and it should be properly maintained.**
- 44. The project proponent shall undertake plantation/ afforestation work by planting the native species on all side of the lease area at the rate of 400/Ha. Suitable tall tree saplings should be planted on the bunds and other suitable areas in and around the work place and progress report shall be submitted once in 3 months.
- 45. At least 10 Neem trees should be planted around the boundary of the quarry site.

46. Floor of excavated pit to be leveled and sides to be sloped with gentle slope (Except for granite quarries) in the mine closure phase.
47. The Project Proponent shall ensure a minimum of 2.5% of the annual turnover will be utilized for the CSR Activity
48. The Project Proponent shall provide solar lighting system to the nearby villages
49. The Project Proponent shall comply with the mining and other relevant rules and regulations where ever applicable.
50. Rainwater shall be pumped out Via Settling Tank only.
51. Earthen bunds and barbed wire fencing around the pits with green belt all along the boundary shall be developed and maintained.
52. As per MoEF & CC, GoI, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wild Life angle including clearance from standing committee of the National Board for Wild life as applicable shall be obtained before starting the quarrying operation, if the project site is located within 10KM from National Park and Sanctuaries.
53. 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.
54. Safety equipments to be provided to all the employees.
55. Safety distance of 50 m has to be provided in case of railway, reservoir, canal/odai
56. The Deputy Superintendent of Police, Revenue Divisional Officer and the Tahsildar concerned shall ensure that the proponent has engaged the blaster with valid Blasting license / certificate obtained from the competent authority before execution of mining lease.
57. The proponent shall furnish the Baseline data covering the Air, Water, Noise and land environment quality for the proposed quarry site before execution of mining lease.
58. The proponent shall erect the pillars in accordance with the Rules for depicting GPS details in the earmarked boundary of the quarry site to monitor electronically before execution of quarrying lease.
59. The proponent shall furnish the data obtained from the Public Works Department regarding the details of ground water table in the quarry site.
60. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh case before commencing quarrying operation.
61. The proponent has to display the name board at the quarry site showing the details of proponent, leased period, extent etc., with respect to the existing activity before execution of mining.
62. Heavy earth machinery equipments if utilized, after getting approval from the competent authority.
63. The Environmental norms shall be monitored by the District Environmental Engineer, Tamil Nadu Pollution Control Board, Salem.
64. Blasting shall be carried out after announcing to the public through adequate public address system to avoid any accident.
65. Artificial recharge structure should be constructed nearby the lease area to harvest the rain water.

66. The environmental norms shall be adhered by the Project Proponent and shall furnish a report periodically to the authority concerned.
67. Ground Water Level and quality shall be monitored by the Assistant Director, Public Works Department (WRO) Salem.
68. NOC for sanitary certificate obtained from the Deputy Director of Health Services, Salem should be submitted by the proponent.
69. Periodical medical examination of the quarry workers should be carried out by a registered medical practitioner and the report should be file in the quarry office in a separate file and copy sent to the Health Department.
70. Machinery equipments friction /wear and cost of things have to be monitored then and there alongwith maintenance.
71. Staff secure will be maintained by the proponent as per labour act and rules in force.
72. Proper bench should be maintained by the proponent as per norms. Proper safety measures should be provided by the proponent while quarrying.
73. The proponent should not dump debries, stockblocks in the water spread area of the reservoir in and around the quarry site.
74. The quarrying should not cause any disturbance. or damages to the reservoir. Cost of 2.5 for CSR is to be added from the total cost of the project.
75. Rejected, waste dump should not be let for rolling and fill in the course of River course.
76. Due care and restriction of depth of quarrying to be confined a depth of the surface water level of the River.

B. 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 for Establishment 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 DEIAA, Salem District, 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 them 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.
- 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 DEIAA, Salem District may alter/modify the above conditions or stipulate any further conditions in the interest of environment protection.
- 19) The DEIAA, Salem District 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 DEIAA Salem District 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, 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.

- 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.

(Sd/- Rohini. R. Bhajibhakare.,)
 CHAIRMAN, DEIAA/
 DISTRICT COLLECTOR,
 SALEM.

//True Copy/ By Order//

For CHAIRMAN, DEIAA/
 DISTRICT COLLECTOR,
 SALEM.

27/12/18

Copy to:-

1. The Secretary, Ministry of Mines, Government of India , Shastri Bhawan, New Delhi
2. The Principal Secretary, Environment and Forest Department, Government of Tamil Nadu, Tamil Nadu.
3. The Principal Secretary to Government, Industries Department, Government of Tamil Nadu, 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, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
7. The Member Secretary, State Level Environmental Impact Assessment Authority, Tamil Nadu, 3rd Floor, Panagal maalgai, No. 1 Jeenis Road, Saidapet, Chennai-15.
8. The Director of Geology and Mining, Guindy, Chennai-32.
9. E1 Division, Ministry of Environment and Forests Paryavaran Bhawan, New Delhi.
10. Spare.



TAMILNADU MINERALS LIMITED

(An Undertaking of Government of Tamil Nadu)
No.31, Kamarajar Salai, Chepauk, Chennai - 600005
E-mail: tamin@tamingranites.com // Website: www.tamingranites.com

Rc.No.10342/ML3/2017

PUBLIC NOTICE

Dated: 20.05.2018

M/s. Tamil Nadu Minerals Limited, Chennai has been accorded Environmental Clearance for following Mining Projects by State Level Environmental Impact Assessment Authority (SEIAA), Tamil Nadu and District Environmental Impact Assessment Authority (DEIAA), Salem

Sl. No	Details of the Project				Ref. No. in which Environmental Clearance accorded by SEIAA, Tamil Nadu / DEIAA, Salem
	Name of the Village, Taluk and District	SF No.	Extent In Ha.	Name of the Mineral	
1	Chendarapalli Burgur Krishnagiri	176/1 (part)	15.23.5	Colour Granite	SEIAA - TN/F.No.4389/EC/1(a)/ 3975/2018 dated: 30.04.2018
2	Kaveripuram Mettur Salem	3 (part)	4.00.0	Black Granite	DEIAA - DIA/TN/MIN/10870 2017-SLM-EC.No.13/2017 dated: 17.05.2018

The copy of Environmental Clearance can be seen in the website of Tamil Nadu Pollution Control Board (<http://www.inpcb.gov.in>) as well as in the website of the State Level Environmental Impact Assessment Authority (SEIAA), Tamil Nadu, District Level Environmental Impact Assessment Authority (DEIAA), Salem (i.e. environmentalclearance.nic.in) or (envfor.nic.in) and also in the website of TAMIN i.e. (<http://www.tamingranites.com>)

DIPR/609/DISPLAY/2018

MANAGING DIRECTOR



தமிழ்நாடு திரள் நிறுவனம்

சென்னை | புதுவர் | 30.5.2018

சென்னை மாநகராட்சி



தமிழ்நாடு திரள் நிறுவனம்

(தமிழ்நாடு திரள் நிறுவனம்)

எண்.31, சாயராஜ் சாலை, கோயம்பேட்டை, சென்னை-600005
தொ.மொ.044-29062018, 20511972, டிஸி-91-44-20524900

மின்னஞ்சல்-tamiln@tamilngranulks.com // இணையதளம்-tamilngranulks.com

Re.No.18342/SLM/3/2017

வொது அறிவிப்பு

நாள்: 29.05.2018

தமிழ்நாடு கனிம நிறுவனம், சென்னை அலங்காரத் துறைமுக உத்தேசிக்கப்பட்டுள்ள கிழக்கண்ட கிராமைட் கற்க்கத் திட்டங்களுக்கு மாநிலக் கற்றுச் சூழல் தாக்க மதிப்பீடு ஆணையம் (SEIAA), தமிழ்நாடு மற்றும் மாவட்ட கற்றுச் சூழல் தாக்க மதிப்பீடு ஆணையம் (DEIAA), சேலம் மாவட்டம் கிழக்கண்டவாறு கற்றுச் சூழல் அனுமதி வழங்கியுள்ளது

வ.நா.	திட்டத்தின் விவரம்				மாநில மற்றும் மாவட்ட கற்றுச் சூழல் தாக்க மதிப்பீடு ஆணையத்தின் அனுமதி கிடைக்காத கற்றுச் சூழல் தாக்க மதிப்பீடு
	கிராமம், வட்டம், மற்றும் மாவட்டத்தின் பெயர்	புல எண். மற்றும் பரப்பளவு (ஹெக்டேயில்)	பரப்பளவு (ஹெக்டேயில்)	கனிம வகைகள்	
1	செந்திரப்பாளையம் கிராமம், கிருஷ்ணாபேட்டை	176/1 (பகுதி)	15.23.5	வெள்ளா கிராமைட்	SEIAA -TN/EC.No.4389/EC/1(a)/3975/2018 dated: 30.04.2018
2	காவேரியூர் மேட்டு, சேலம்	3 (பகுதி)	4.00.0	கரும்பு கிராமைட்	DEIAA -DI/TN/MIN/10078 2017-SLM-EC.No.13/2017 dated: 17.05.2018

இவ்வனுமதியின் நகலை தமிழ்நாடு மாகாணத்திலிருந்து பெறியும்தின்ப இணையதளம் (<http://www.tnpcb.gov.in>) கற்றுச் சூழல் தாக்க மதிப்பீடு ஆணையத்தின் இணையதளம், தமிழ்நாடு, மாவட்ட கற்றுச் சூழல் தாக்க மதிப்பீடு ஆணையத்தின் இணையதளம், சேலம் மாவட்ட (environmentclearance.nic.in) or (envfor.nic.in) மற்றும் தமிழ்நாடு கனிம நிறுவனத்தின் இணையதளம் (<http://www.tamilngranulks.com>) ஆகியவற்றில் காணலாம்.

செ.ம.தொ.டி/689/வரைகலை/2018

மேலாண் இயக்குநர்