

State Expert Appraisal Committee (SEAC)

Minutes of 389<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 06.07.2023 (Thursday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 389-01

(File No: 9291/2022)

Proposed sand quarry lease over an extent of 4.95.0 Ha at S.F.No. 256 and 257 (Part) of Sathamangalam (Ananthimedu) Village, Lalgudi Taluk, Tiruchirappalli District, Tamil Nadu by M/s. The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli - For Environmental Clearance. (SIA/TN/MIN/273300/2022, Dt. 19.05.2022).

The proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli has applied for Environmental Clearance for the proposed sand quarry lease over an extent of 4.95.0 Ha at S.F.No. 256 and 257 (Part) of Sathamangalam (Ananthimedu) Village, Lalgudi Taluk, Tiruchirappalli District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, this proposal was placed for appraisal in the 296<sup>th</sup> SEAC meeting held on 16.07.2022. Based on the documents furnished and presentation made by the proponent, the SEAC, after detailed deliberations, decided to make an on-spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC. Further, the PP shall furnish the following details during the site inspection.
  - The Project Proponent shall study and report in details of the "Replenishment Study" as per Sustainable Sand Mining Management

  
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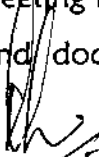
Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020.

Subsequently, this proposal was placed for appraisal in the 541<sup>st</sup> SEIAA meeting held on 22.08.2022. The Authority noted that this proposal was placed for appraisal in this 296<sup>th</sup> meeting of SEAC held on 16.07.2022 and the SEAC decided to make an on-spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC. Further, the PP shall furnish the following details during the site inspection.

- The Project Proponent shall study and report in details of the “Replenishment Study” as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining, 2020.
- Furnish the Details with route map and the transportation route.
- The details of maximum production from the mines.
- Demarcation of mining area with pillars and geo-referencing shall be made by furnishing photographs taken on site prior to the start of mining.
- The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities.
- The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.
- Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
- The project proponent shall study impact on indigenous flora and fauna.
- The project proponent shall study impact on fish habitats and the food web/ food chain in the water body and Reservoir.

4. Again, this proposal was placed for appraisal in the 339<sup>th</sup> SEAC meeting held on 22.12.2022. Based on the Inspection report, presentation and documents

  
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furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for 1,23,750 m<sup>3</sup> of Sand for period of 2 Years, subject to the specific conditions stated therein, in addition to normal conditions stipulated by MOEF &CC.

Subsequently, this proposal was placed for appraisal in the 584<sup>th</sup> SEIAA meeting held on 12.01.2023. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following and place before the Authority for further course of action.

- The PP shall furnish the exact distance of proposed mining lease area from the Kallanai Dam ("Grand Anicut").
- The PP shall furnish the status w.r.to the W.P(MD) No. 133 of 2023 & WMP (MD) No. 130 of 2023.

Based on the PP's reply vide Lr. Dt: 15.02.2023, Again this proposal was placed in the 596<sup>th</sup> Authority meeting held on 22.02.2023 & 23.02.2023. The Authority further noted that PILs have been filed before the Hon'ble High Court of Madras (Madura Bench) vide WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 with the prayer to restrict sand mining using heavy machineries in the River basin of Kaveri/Kollidam considering the stability of the Kallanai Dam and the case is pending before the Hon'ble Court.

In this connection, the Authority decided to refer back the subject to SEAC to furnish its remarks on permitting mechanized sand quarrying near Kallanai Dam.

Hence, this proposal was again placed in the 361<sup>st</sup> SEAC meeting held on 10.03.2023 and the PP has made re-presentation covering the above points is as follows.

- The Proponent submitted the Report on Replenishment Study as per the SSMMG-2016 and EMGSM-2020 to the Committee which indicates the occurrence of 40% replenishment for the bed thickness of 1.2 m.
- Further, the PP also furnished reply for the additional queries raised by the Authority in its 596<sup>th</sup> Authority meeting held on 22.02.2023 & 23.02.2023.

  
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S.No	SEIAA Query	Reply	Reference
1.	The PP shall furnish the exact distance of proposed mining lease area from the Kallanai Dam ("Grand Anicut").	Sathamangalam (Ananthimedu) Proposed Sand Quarry Site is at a distance of 5 km to Kallanai Dam ("Grand Anicut").	Reply Letter - Lr.No: DB/JDO.2/F.23 /29M/ Dt: 13.02.2023
2.	The PP shall furnish the status w.r.to the W.P(MD) No. 133 of 2023 & WMP (MD) No. 130 of 2023.	Order Dated: 01.02.2023 - "The quarrying operations shall not be carried out within the prohibited distance of the bridges and the Kallanai Dam" Prohibited distance as per Sustainable Sand Mining Guidelines 2020 is 500 m - Annexure VIII Point No. 8.	Court Order Copy Submitted along with Reply Letter - Lr.No: DB/JDO.2/F.23 /29M/ Dt: 13.02.2023

The project proponent gave a re-presentation incorporating the details requested by SEIAA. The Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made in 339<sup>th</sup> SEAC meeting held on 22.12.2022. All other conditions stipulated in the earlier minutes will remain unaltered.

Subsequently, this proposal was placed in the 607<sup>th</sup> SEIAA meeting held on 03.04.2023. The Authority further noted that PILs have been filed before the Hon'ble High Court of Madras (Madura Bench) vide WP(MD) No.133 of 2023

and WMP(MD) No.130 of 2023 with the prayer to restrict sand mining using heavy machineries in the River basin of Kaveri/Kollidam considering the stability of the Kallanai Dam and the case is pending before the Hon'ble Court.

In addition to that Authority noted that

1. Appeal Number 80 of 2022 has been filed in the Hon'ble NGT, Southern Zone has passed various orders as below

Order dated: 27.03.2023

*"...It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under 'B1 - Category' which would require the public hearing, replenishment study and also the EIA Study."*

Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

In the view of the above, Authority decided to refer back the proposal to SEAC to furnish remarks on permitting mechanized sand quarrying near Kallanai Dam by considering the WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 pending before the Hon'ble Court and to examine the aforementioned NGT order and shall furnish its recommendation to SEIAA regarding the category under which the proposal may be granted EC.

Hence, the proposal was placed in the 376<sup>th</sup> SEAC Meeting held on 05.05.2023. During the presentation, committee decided to defer the proposal and take up for appraisal in the ensuing meeting.

Further, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

  
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Agenda No: 389-02

(File No: 9474/2022)

Proposed Sand quarry over an extent of 4.90.0 Ha in Thenpennai River located at S.F.No.1(P) in Akkadavalli Village, Panruti Taluk, Cuddalore District, Tamil Nadu by The Executive Engineer, PWD/WRD, Villupuram– For Environmental Clearance. (SIA/TN/MIN/290813/2022 Dt. 30.08.2022).

Earlier, this proposal was placed in the 322<sup>nd</sup> SEAC Meeting held on 19.10.2022. Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub-Committee constituted by SEAC to assess the present Environmental Condition.

1. The Project Proponent shall study and report in detail on the “Replenishment Study” as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020”.
2. Pillar stone shall be erected before the site inspection.

Based on the Inspection report, this proposal was placed for appraisal in the 360<sup>th</sup> SEAC Meeting held on 03.03.2023. Based on the Inspection report, presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for 1,14,380 m<sup>3</sup> of Sand for period of 1 Year, subject to the specific conditions stated therein, in addition to normal conditions stipulated by MOEF &CC.


Subsequently, the proposal was placed for appraisal in this 606<sup>th</sup> SEIAA Meeting held on 29.03.2023 & 30.03.2023. Authority after detailed deliberation, noted that

1. Appeal Number 80 of 2022 has been filed in the Hon’ble NGT, Southern Zone has passed various orders as below

Order dated: 27.03.2023

*“...It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under ‘B1 – Category’ which would require the public hearing, replenishment study and also the EIA Study.”*

Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

  
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In the view of the above, Authority decided to refer back the proposal to SEAC to examine the aforementioned NGT order and shall furnish its recommendation to SEIAA regarding the category under which the proposal may be granted EC.

Hence, the proposal was placed in 376<sup>th</sup> SEAC Meeting held on 05.05.2023. During the presentation, committee decided to defer the proposal and take up for appraisal in the ensuing meeting.

Further, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

**Agenda No: 389-03**


**(File No: 9551/2022)**

**Proposed Rough stone & Gravel lease over an extent of 3.89.0 Ha at S. F. No's: 178/9, 178/10, 217/1B, 217/2, 217/3, 217/4A, 217/4B & 217/5 in Perumbakkam Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu by K. Chellamuthu-For Environmental Clearance (SIA/TN/MIN/405350/2022 dt 04.11.2022).**

The proposal was placed in this 389<sup>th</sup> meeting of SEAC held on 06.07.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following

1. The Project Proponent, K. Chellamuthu has applied for Environmental Clearance for the Proposed Rough stone & Gravel lease over an extent of 3.89.0 Ha at S. F. No's: 178/9, 178/10, 217/1B, 217/2, 217/3, 217/4A, 217/4B & 217/5, Perumbakkam Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Earlier, this proposal was placed in the 362<sup>nd</sup> meeting of SEAC held on 13.03.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity exceed 529788m<sup>3</sup> of Rough Stone & 96687m<sup>3</sup> of Gravel

  
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with maintaining proposed pit depth of 25m (3m Gravel + 22m Rough stone) BGL & annual peak production capacity of 142220m<sup>3</sup> of Rough Stone & 96687m<sup>3</sup> of Gravel subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

Subsequently, this proposal was placed in the 608<sup>th</sup> Authority meeting held on 05.04.2023 & 06.04.2023. The Authority noted that there is a nearby water body and drainage paths running adjacent to the site. Further, there are agricultural lands adjacent to the site. Hence in this regard the PP shall submit the following necessary reports as follows,

Detailed study shall be carried out in regard to assess the impact of mining around the proposed mine lease area from reputed Research and Academic Institution such as NIRM, IITs, NITs, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc on the following

1. The hydrogeological regime is likely to be disturbed. Hence, Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby water bodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater.
2. Since the proposed area of mining 3.89.0 Ha is large, the mining is likely to impact the underground water and affects the lakes situated at 150m and 300 m from the quarry site. Hence, the PP shall furnish impact study report on the same.
3. Impact of mining on water table, agriculture and Horticulture to be studied.
4. The likely pollution on groundwater due to mining to be studied.
5. The change in drainage pattern, movement of surplus mine water and rain water to be studied.
6. Will the mining result in drawdown effect and affect macro, micro and Mini water shed.
7. Impacts on aquifers may also be studied.
8. Best mining practice to be deployed.

  
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Subsequently, the PP had submitted a reply vide letter dated:10.05.2023. Hence, this subject was placed in the 618<sup>th</sup> Authority meeting held on 16.05.2023. After detailed discussion, the Authority decided to request the Member Secretary SEIAA-TN to refer back the proposal to SEAC-TN to obtain remarks on the reply submitted by the PP.


Hence, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. The Project proponent made a presentation along with the clarifications for the above shortcomings observed by the SEIAA based on the field investigations involving the hydrogeological studies carried out by the PP through the Department of Geology, Periyar University, Salem as given below:

S. No	Query	Reply
1.	The Hydrogeological regime is likely to be disturbed. Hence Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & Open wells and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 Km (radius) so as to assess the impacts on the nearby water bodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater.	<p>The water table in the mining area is &gt; 70m bgl confirmed through Vertical Electrical Sounding profile. So the mining of 40m BGL never intersect the groundwater table.</p> <p>The drainage map shows that the natural drainage not in contact in the lease area. There is no impact on the surface waterbodies as the distance, watercourse in the surface, flow direction based on altitude of the area around 1km radius has shown in drainage map.</p>

  
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2.	<p>Since the proposed area of mining 3.89.0Ha is large, the mining is likely to impact the underground water and affects the lakes situated at 150m and 300m from the quarry site. Hence, the PP shall furnish impact study report on the same.</p>	<ul style="list-style-type: none"> <li>• Two tanks had shown in drainage and google image map. The outflow from one tank would serve as the inflow for the next one in the series that the tanks were designed to allow the excess water to flow out after it has reached its capacity.</li> <li>• These surface water bodies are non-system stand-alone isolated tanks fed by rain.</li> <li>• The tank size is less than 100acres so it is managed by local Panchayat.</li> <li>• No eri's ayacut found as the eri's are useful for increase the groundwater table around the surrounding villages to avoid the water shortage in summer season.</li> <li>• There is no doubt that this proposed mining will also create a water storage tank.</li> </ul>
3.	<p>Impact of mining on water table, agriculture and horticulture to be studied.</p>	<ul style="list-style-type: none"> <li>• North and Eastern side of the lease area covered by Mango Trees. It will also support to suppress the dust. As per "CPCB guideline 2000" there are 15 agro climate regions. Each of these region is further divided into 68 subzones based on annual rainfall, climate conditions</li> </ul>

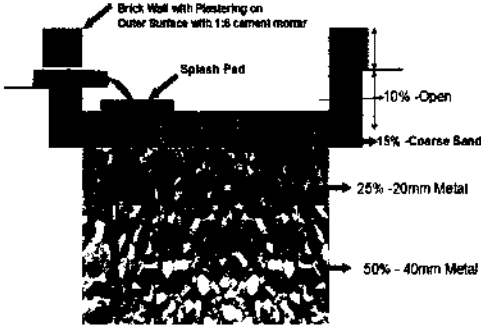
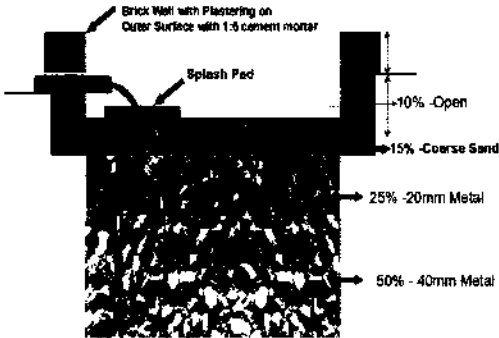
  
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		<p>and soil types. The species recommended for the greenbelt are quite adapted to such climate condition and grow well in the above soil types.</p> <ul style="list-style-type: none"> <li>• Based on the guidelines the 61 type of native species were by SEAC-TN at 500 trees/ hectares to plant in safety area left around the quarry pit.</li> <li>• 0.66 Hectares (6600sqm) comes under safety zone. 2 rows of 3m spacing gives 2000 species to plant around the lease. Neem, Pungam, Mantharai, Mango, Sapotta etc., should plant by Proponent. The PP completed the plantation and the photographs were attached in the PPtx.</li> </ul>
4.	The likely pollution on groundwater due to mining to be studied.	<ul style="list-style-type: none"> <li>• There is no pollution on groundwater as the mining is opencast semi mechanized. No hazardous waste generated from this quarrying activity.</li> <li>• Adequate measures should follow by the proponent as per the conditions given in EC.</li> </ul>

  
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<p>5.</p>	<p>The change in drainage pattern, movement of surplus mine water and rain water to be studied.</p> 	<p>Drainage pattern shown in map in this PPTx. Surplus mine and rainwater should discharge into the ground. The method of discharge as shown below.</p> 
<p>6.</p>	<p>Will the mining result in drawdown effect and affect macro micro and mini water shed.</p>	<p>Opencast mining operations conducted below groundwater table often affect the drawdown of the water table over large areas which as a consequence changes the natural regional hydrological balance.</p> <p>The depth proposed in the mining activity is 40n BGL which is above the Groundwater table.</p>
<p>7.</p>	<p>Impacts on aquifers may also be studied.</p>	<p>The geomorphology of the lease area consists of 3m gravel and 37m roughstone confirmed through the resistance provided by VES. At &gt;70m BGL the aquifer exists will not disturb the aquifers.</p>

  
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8.	Best mining practice to be deployed.	PP assure to follow Annexure I prescribed by SEAC and Annexure A proposed by SEIAA and compliance given in Part A, Part B.
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The committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made in 362<sup>nd</sup> meeting of SEAC held on 13.03.2023. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No: 389-04

(File No: 9601/2022)

Proposed construction of Multi Storied Commercial Building at S.F.No. 335/3A, 335/3B, Block No.37, in Krishnarayapuram Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu by M/s. Globus Arima Builders LLP - For Environmental Clearance. (SIA/TN/INFRA2/412971/2023, Dated 12.01.2023).

The proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Proponent, M/s. Globus Arima Builders LLP has applied for Environmental Clearance for the Proposed construction of Multi storied Commercial Building at S.F.No. 335/3A & 335/3B, Block No.37 in Krishnarayapuram Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item 8(a) "Building & Construction Projects" of the Schedule to the EIA Notification, 2006.
3. The PP had earlier submitted an online application SIA/TN/INFRA2/404399/2022, Dated 28.10.2022 (9601/2022) to obtain Terms of Reference. This proposal was placed in the 346<sup>th</sup> SEAC Meeting held on 12.01.2023. The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.
4. Subsequently, the PP had submitted a letter dated: 19.01.2023 to withdraw their application earlier made for obtaining Terms of Reference vide online application No. SIA/TN/INFRA2/404399/2022, Dated 28.10.2022 (9601/2022) stating that our

  
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application has submitted wrongly under obtaining ToR hence we are planning to resubmit the application for getting Environmental Clearance.

5. Again, the PP had submitted a fresh Online application vide online No. (SIA/TN/INFRA2/412971/2023, Dated 12.01.2023) for obtaining Environmental Clearance.


Hence, this proposal was placed in the 361<sup>st</sup> SEAC meeting held on 10.03.2023. Based on the presentation and document furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the specific conditions stated therein in addition to normal conditions stipulated by MOEF&CC.

Subsequently, this proposal was placed in the 607<sup>th</sup> Authority meeting held on 03.04.2023. After detailed discussions, the Authority decided to obtain following details from the PP.

1. The Proponent shall furnish detailed land area breakup indicating OSR area in Sq.m and also in percentage of total land area. The project proponent shall provide entry and exit points for the OSR area, as per the norms for the public usage and as committed.
2. The project proponent shall enumerate on the details of No. of Trees, Age of trees & its yield details of trees in the proposed project site.
3. The PP shall obtain fresh water supply commitment letter from the local body /TWAD.
4. The PP shall furnish detailed Traffic analysis study report.

Subsequently, the PP had submitted a reply vide letter dated:25.04.2023. Hence, this proposal was placed in the 618<sup>th</sup> Authority meeting held on 16.05.2023. After detailed discussion, the Authority decided to request the Member Secretary SEIAA-TN to refer back the proposal to SEAC-TN to obtain remarks on the reply (especially on the 1<sup>st</sup> & 3<sup>rd</sup> query) submitted by the PP.

Hence, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. The project proponent was absent for the meeting. SEAC decided to defer the proposal to a later date directing the project proponent to furnish the reason for not attending the meeting.

  
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Agenda No:389-05.

(File No: 8731/2022)

Proposed Silica Sand quarry lease over an extent of 3.73.0Ha at S.F.Nos. 73(Part) of Vadaagaram Village, Marakkanam Taluk, Villupuram District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited - TAMIN - For Environmental Clearance. (SIA/TN/MIN/424193/2023, dated:31.03.2023).

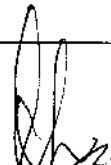
The proposal was appraised in 389<sup>th</sup> meeting of SEAC held on 06.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Tamil Nadu Minerals Limited - TAMIN, has applied for Environmental Clearance for the proposed Silica Sand quarry lease over an extent of 3.73.0Ha at S.F.Nos. 73(Part) of Vadaagaram Village, Marakkanam Taluk, Villupuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The production for the five years states that the total quantity of recoverable as 39,986 Tonnes of Silica sand and the ultimate depth of mining is 4m below ground level.
4. The salient features of the proposed project as follows

File No	8731	Category	"B2" 1(a)
	SIA/TN/MIN/424193/2023, dt 31.03.2023		EC
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M/s. Tamil Nadu Minerals Limited, No.31, Kamarajar Salai, "TWAD HOUSE" Chepauk, Post Box No.2961, Chennai-600 005.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Silica Sand Mine
3.	S.F Nos. of the quarry site with area break-up	:	73(Part)

  
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4.	Village in which situated	:	Vadagaram
5.	Taluk in which situated	:	Marakkanam
6.	District in which situated	:	Villupuram
7.	Extent of quarry (in ha.)	:	3.73.0Ha (Government land)
8.	Latitude & Longitude of all corners of the quarry site	:	12°10'27.50"N to 12°10'37.19"N 79°55'12.59"E to 79°55'26.63"E
9.	Topo Sheet No.	:	57 P/16
10.	Type of mining	:	Opencast Semi-Mechanized Mining Method
11.	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources (RoM)	:	Silica Sand - 1,48,275 Tonnes
	Minable Resources (RoM)	:	Silica Sand - 39,986 Tonnes
	Annual Peak Production in Ts	:	Silica Sand -9,363 Tonnes
	Maximum Depth in meters	:	4m BGL
13.	Depth of water table	:	6.50m BGL
14.	Man Power requirement per day:	:	26 Employees
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	1.5 KLD
16.	Power requirement	:	TNEB
17.	Precise area communication approved by the Industries department with date	:	Letter.No.6113/MMC.2/2019-1 dt: 26.02.2021
18.	Mining Plan approved by Assistant Director of Geology and Mining.	:	Rc.No.3082/MM7/2019, dt: 07.07.2021
19.	Assistant Director(i/c) mines 500m Cluster Letter	:	Rc.No.B/G&M/73/2021 dt: 07.06.2021
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: Dt:12.05.2021



21.	Project Cost (excluding EMP cost)	:	Rs. 1,02,02,000/-
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Silica Sand
		:	Max Total RoM in m <sup>3</sup>
			39,986 tonnes
		:	Annual Max RoM in m <sup>3</sup>
			9,363 Tonnes
		:	Max Depth in mtrs
			4m
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 29,54,600/- Recurring cost/annum – Rs. 12,14,310 /- Total EMP: Rs. 41,68,910/=
24.	CER cost (in Rs. Lakh).	:	Rs. 3,00,000 /- as accepted by the PP

Earlier application No. SIA/TN/MIN/225474/2020 dt: 19.08.2021 (File No. 8731/2020) was appraised vide 242<sup>nd</sup> meeting of SEAC held on 03.02.2022. Based on the presentation and documents furnished by the project proponent, SEAC noted that in G.O(MS) No. 295 dated 03.11.2021 the Government in Industries Department has notified the following Rules specifying certain conditions for permitting mining activities near ecologically sensitive areas.

*“ ... No quarrying or mining or crushing activities shall be carried out within one kilometer radial distance or the protective distance as notified by the Ministry of Environment, Forest and Climate Change, Government of India from time to time, whichever is more, from the boundaries of ecologically sensitive areas, environmentally and ecologically sensitive protected areas such as the National parks, Wild life Sanctuaries, Tiger Reserves, Elephant corridors and Reserve Forests”.*

  
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The Committee noted that the Agaram Reserve Forest is located at a distance of 0.118km from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, decided not to recommend the proposal.

Subsequently, this proposal was placed for appraisal in the 485<sup>th</sup> SEIAA Meeting held on 15.02.2022. After detailed discussions, the Authority accepts the decision of SEAC and decided to communicate the SEAC minutes to the project proponent.

Now, the Proponent has resubmitted the same proposal vide online application No. SIA/TN/MIN/424193/2023 dt: 31.03.2023 (File No. 8731/2023) with all necessary supporting documents in order to obtain Environmental Clearance.

Description	Old File	New File
File No	8731	8731
Online Proposal No for EC	SIA/TN/MIN/225474/2020 dt: 19.08.2021.	SIA/TN/MIN/424193/2023 dt: 31.03.2023.

1. As per the G.O. (Ms.) No. 243 industries, Investment promotion and Commerce (MMC.1) Department dated 14.12.2022, Amendment to the Tamil Nadu Minor Mineral Concession Rules, 1959 as follows,

*"...In the said rules, in rule 36, in Sub-rule (1-A), in Clause(e) for the expression "the National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors and Reserve Forests", the expression "National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors" shall be substituted..."*

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the Annual peak production capacity of not exceeding 9,363 Tonnes of Silica Sand by maintaining the ultimate depth to 4 m BGL as per the approved mining plan and subject to the standard conditions & normal conditions stipulated by MoEF&CC and Annexure-I, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan

approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.

2. The PP shall duly conduct the Initial & Periodical examinations of all the workers employed whether permanent, temporary or contractual, before they are engaged in any mining activities as per provisions stipulated in the DGMS Circular No. 1 of 2011. A copy of the aforesaid Survey/Medical examinations shall be sent to the DEE/TNPCB, IR/MoEF & CC, Chennai, and the DMS, DGMS-Chennai Region without fail.
3. The PP shall backfill the waste material excavated during the operation with proper plantation under the guidance of Faculty of Agriculture, Annamalai University, Annamalai Nagar, Chidambaram.
4. The PP shall carry out the scientific studies to assess the hydrogeological conditions and impact of quarrying operation on the surface & ground water environment, once in 2 years from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation
5. The PP shall not carry out the drilling and blasting activities in the quarry.
6. The PP shall carry out the special mitigation measures as enlisted in the Annexure-I to safe guard the Reserve Forest existing within 1 km from the lease.
7. As accepted by the Project Proponent the CER cost of Rs. 3.0 lakhs and the amount shall be spent for (i) the renovation of toilet facilities for the girls & boys and staff members; (ii) provision of environmental awareness books to the students (iii) provision of the benches with chair to the students in the Panchayat Union Primary School, Vadaagaram village, before obtaining CTO from TNPCB.

  
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Agenda No: 389-06

(File No: 10030/2023)

Proposed Sand Quarry over an extent of 4.80.0 Ha at S.F. No.196(P) Karkudal Village, Vridhachalam Taluk, Cuddalore District, Tamil Nadu by The Executive Engineer-For Environmental Clearance. (SIA/TN/MIN/412667/2023 Dated: 06.01.2023).

The proposal was placed in this 389<sup>th</sup> Meeting of SEAC held on 06.07.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).The SEAC noted the following:

1. The Project Proponent, The Executive Engineer has applied for Environmental Clearance for the Proposed Sand Quarry over an extent of 4.80.0 Ha at S.F. No.196(P),Karkudal Village, Vridhachalam Taluk, Cuddalore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 1 year. The mining plan is for the period of One year & production should not exceed 48,000 m<sup>3</sup> of Sand & 38,744 m<sup>3</sup> of Shoal with ultimate depth of mining 1.0m.

Further, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

Agenda No: 389-07

(File No: 9292/2022)

Proposed sand quarry lease over an extent of 4.90.0 Ha at S.F.No. 242 (Part) of Srinivasanallur Village, Thottiyam Taluk, Tiruchirappalli District, Tamil Nadu by the Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli - For Environmental Clearance (SIA/TN/MIN/78415/2022, Dt. 17.06.2022)

The proposal was earlier placed in the 296<sup>th</sup> meeting of SEAC held on 16.07.2022, 339<sup>th</sup> meeting held on 22.12.2022 & 361<sup>st</sup> SEAC meeting held on 10.03.2023. The project

  
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proponent has given a detailed presentation. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:


1. The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli has applied for Environmental Clearance for the proposed sand quarry lease over an extent of 4.90.0 Ha at S.F. No: 242 (Part) of Srinivasanallur Village, Thottiyam Taluk, Tiruchirappalli District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended, as amended.

Based on the documents furnished and presentation made by the proponent, the SEAC, after detailed deliberations, decided to make an on-the-spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC. Further, the PP shall furnish the following details during the site inspection. The Project Proponent shall study and report in details of the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020.

The SEAC constituted a sub-committee vide its Lr.No.SEAC/TN/Site Inspection/2022, dt.16.07.2022 to inspect and study the field condition for the proposal seeking EC for a sand quarry proposed at Srinivasanallur Village in SF No. 242 (P), Thottiyam Taluk, Trichy District. The Committee comprised of Mr. K.S.S.V.P. Reddy, I.F.S (Rtd), Member, SEAC and Dr. P. Balamadeswaran, Member, SEAC. Accordingly, the sub-committee visited the site on 19.12.2022 and submitted its inspection report to the Committee during the 339<sup>th</sup> meeting of the SEAC held on 22.12.2022.

Based on the Inspection report, presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for mining 98,000Cu.m of Sand in a period of 2years to an ultimate depth of 2m (1m above theoretical bed level + 1m below theoretical bed level) subject to the conditions stated therein.

Subsequently, the proposal was placed in the 584<sup>th</sup> meeting of SEIAA held on 12.01.2023. After detailed discussions, the Authority decided to request the Member

  
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Secretary, SEIAA-TN to obtain the following and place before the Authority for further course of action.

- The Proponent shall furnish the exact distance of proposed mining lease area from the Kallanai Dam ("Grand Anaicut").
- The PP shall furnish the status w.r.to the W.P(MD) No. 133 of 2023 & WMP (MD) No. 130 of 2023.

The proponent vide letter dated: 15.02.2023 has reported the following:

"The Authority Committee has sought for the additional details towards the proposed Sand Quarry over an extent of 4.90.0 Ha in River Cauvery located at SF.No. 242 (P), Srinivasanallur Village, Thottiyam Taluk, Trichy District as detailed below.

1. Srinivasanallur - 53 Km is the Exact distance of the proposed Mining Lease area from the Kallanai Dam (Grand Anaicut).
2. The Hon'ble High Court has granted interim Stay Order for Quarrying Operation on 11.01.2023. Now the modified order passed by the Hon'ble Madurai Bench of Madras High Court towards W.P.(MD) Nos.133 and 694 of 2023 and W.P.(MD) No.130 of 2023 In W.P.(MD) No.133 of 2023, Dated: 01.02.2023 is herewith submitted. Also, submitted that "All instructions will be adhered to".

Hence the subject was taken up for discussion in the 596<sup>th</sup> meeting of Authority held on 22.02.2023 & 23.02.2023. After detailed discussions, the Authority decided to refer back the subject to SEAC to furnish its remarks on the proposed mechanized sand mining with reference to the above Court order.

Therefore, the subject was placed before the Committee in this 361<sup>st</sup> meeting held on 10.03.2023. the PP has made re-presentation covering the above points is as follows.

- The Proponent submitted the Report on Replenishment Study as per the SSMMG-2016 and EMGSM-2020 to the Committee which indicates the occurrence of 81.63% replenishment for the bed thickness of 0.6 m.
- Further, the PP also furnished reply for the additional queries raised by the Authority in its 596<sup>th</sup> Authority meeting held on 22.02.2023 & 23.02.2023.

  
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Based on the reply given by the PP, the SEAC held detailed discussions and decided to reiterate the recommendations already made in its 339<sup>th</sup> meeting of SEAC held on 22.12.2022.

Subsequently the subject was placed in the 608<sup>th</sup> meeting of Authority dated 05.04.2023 and 06.04.2023. The Authority noted that this proposal was placed for appraisal in 361<sup>st</sup> SEAC meeting held on 10.03.2023 and the SEAC has recommended for the issue of Environmental Clearance subject to certain conditions stated therein. The Authority further noted that PILs have been filed before the Hon'ble High Court of Madras (Madura Bench) vide WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 with the prayer to restrict sand mining using heavy machineries in the River basin of Kaveri/Kollidam considering the stability of the Kallanai Dam and the case is pending before the Hon'ble Court.

In addition to that, Authority also noted that,

1. Appeal Number 80 of 2022 has been filed in the Hon'ble NGT, Southern Zone has passed various orders as below,


Order dated: 27.03.2023

*"...It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under 'B1 – Category' which would require the public hearing, replenishment study and also the EIA Study."*

Further, the Hon'ble Court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

In view of the above, Authority decided to refer back the proposal to SEAC to furnish remarks on permitting mechanized sand quarrying near Kallanai Dam by considering the WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 pending before the Hon'ble Court and to examine the aforementioned NGT order and shall furnish its recommendation to SEIAA regarding the category under which the proposal may be granted EC. Also SEAC shall furnish the recommendation regarding usage of no of poclains with respect of 90<sup>th</sup> SEAC Minutes dated 06.06.2017.

Subsequently the proposal was placed in the 376<sup>th</sup> meeting of SEAC held on 05.05.2023. During the presentation, committee decided to defer the proposal and take up for appraisal in the ensuing meeting.

  
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Now, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

**Agenda No: 389-08**

**(File No: 9679/2022)**

**Existing Rough Stone quarry lease over an extent of 1.62.0 Ha at S.F.No. 770/1 & 770/2 of Nathathahalli Village, Nallampalli Taluk, Dharmapuri District, Tamil Nadu by Thiru. G.Murugesan – Environmental Clearance for next scheme of mining.**

**(SIA/TN/MIN/ 412053 /2022 dated 26/12/2022)**

The proposal was earlier placed in 354<sup>th</sup> meeting of SEAC held on 10.02.2023. The Project Proponent made a detailed presentation about the project proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). **The SEAC noted the following:**

1. The Project Proponent, Thiru. G. Murugesan has applied seeking Environmental Clearance for the existing Rough stone quarry lease over an extent of 1.62.0 Ha at S.F.No. 770/1 & 770/2 of Nathathahalli Village, Nallampalli Taluk, Dharmapuri District, Tamil Nadu.
2. The project/activity is covered under Category “B2” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification,2006, as amended.

Based on the presentation made by the proponent and the documents furnished, the SEAC noted the following:

1. Previous EC was issued vide Lt. No. SEIAA-TN/F.No.5344/1(a)/ EC. No: 3452/2016 dated:29.07.2016 to Thiru. G. Murugesan for Rough stone quarry lease over an extent of 1.62.0 Ha at S.F.No. 770/1 & 770/2 of Nathathahalli Village, Nallampalli Taluk, Dharmapuri District, Tamil Nadu for the production of 63,707 cu.m Rough stone to a depth of 26m.
2. MoEF&CC Notification S.O. 221(E), Dt:18.01.2021.

  
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3. MoEF&CC Notification S.O. 1807(E), Dt: 12.04.2022.
4. MoEF&CC O.M. Dt: 13.12.2022.
5. Mining Plan approval: Roc.No.146/2014(Mines) dated 24.05.2016.
6. Scheme of Mining approval: Roc.No.146/2014(Mines) dated 19.08.2021.
7. As per the mining plan, total production for the first 5 years not to exceed Rough stone – 1,09,360 m<sup>3</sup> to the proposed depth of 15m BGL. The annual peak production shall not exceed 23,540 m<sup>3</sup>(4<sup>th</sup>year).

During the meeting, the proponent stated that he had requested for automatic extension as per the MoEF&CC notification dated 12.04.2022 and O.M dated 13.12.2022 and hence requested for the same.

SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...

*“The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above.”*

Based on the presentation made by the proponent, the SEAC recommend the proposal for ‘automatic extension to the respective increased validity’ as per the aforementioned OM issued by the MoEF & CC subject to the following commitment made by the PP.

- As accepted by the Project Proponent, the CER cost is Rs. 5 Lakh and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

Subsequently the subject was placed in 600<sup>th</sup> meeting of Authority held on 09.03.2023. The Authority noted that the subject was appraised in 354<sup>th</sup> meeting of SEAC held on 10.02.2023 and the SEAC has recommended that the proposal is entitled for ‘automatic extension to the respective increased validity’ as per the aforesaid OM issued by the MoEF & CC subject to the conditions stated therein. The Authority further noticed that the Project Proponent has furnished only the first page of the Certified Compliance Report (CCR) in the PPT and not submitted copy of CCR along with the application. Hence the Project Proponent is hereby directed to furnish the CCR in full at the earliest.

  
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The Proponent furnished the copy of CCR vide letter dated: 24.03.2023 & 03.04.2023. Hence the subject along with the CCR copy was placed before the Authority in its 610<sup>th</sup> meeting held on 11.04.2023. The Authority noticed that many non-compliances have been reported. Hence the Authority decided to refer back the subject to SEAC for furnishing its remarks on the non-compliance of the conditions imposed in the previous EC.

Now the subject was taken up for discussion in this 389<sup>th</sup> meeting of SEAC held on 04.07.2023. The Project Proponent made a presentation on the non-compliances reported in the CCR and the replies furnished by the Project Proponent for each of the non-compliance was deliberated by the SEAC in detail.

Further, the Committee directed the Project Proponent to comply with all the non-compliances reported in the CCR forthwith within a period of six months from the date of execution of lease and to submit a sworn affidavit accordingly in Tamil in this regard. The SEAC held detailed discussions and decided to reiterate the recommendations already made in its 339<sup>th</sup> meeting of SEAC held on 22.12.2022, including the conditions recommended.

**Agenda No: 389-09**  
**(File No: 6975/2021)**

**Proposed Rough Stone, jelly and gravel quarry lease area over an extent of 3.92.70Ha at S.F.No192(p) Kasthuriengapuram Part-II Village, Thisayanvilai Taluk, Tirunelveli District by Thiru. C.Sugu- For Environmental Clearance.**

**(SIA/TN/MIN/59850/2019, dated: 13.01.2021).**

The proposal was earlier placed in the 200<sup>th</sup> meeting of SEAC held on 11.02.2021. The Project Proponent made a detailed presentation on the project proposal. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru.C.Sugu has applied seeking Environmental Clearance for the Rough Stone, jelly and gravel quarry lease area over an extent of 3.92.70 Ha at S.F.No 192(p) Kasthuriengapuram Part-II Village, Thisayanvilai Taluk, Tirunelveli District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) Mining of

  
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- Minerals Projects” of the Schedule to the EIA Notification,2006, as amended.
3. ToR was issued by SEIAA-TN vide Lr. No. SEIAA-TN/F.No .6975/ SEAC/ToR-678/2019 dated 11.12.2019.
  4. Public hearing conducted on 15.12.2020.
  5. The project proponent submitted EIA report to SEIAA-TN on 13.01.2021
  6. Complaints have been received against the proponent.
  7. As per the mining plan, the lease period is for 5 years. The production for first 5 years not to exceed 9,63,820 m<sup>3</sup> of Rough stone, 1,31,704 m<sup>3</sup> of Weathered Rock and 34,776 m<sup>3</sup> of Gravel. The Annual peak production as per mining plan is 1,94,270 m<sup>3</sup> of Rough stone (5<sup>th</sup> year), 1,31,704 m<sup>3</sup> of Weathered Rock (1<sup>st</sup> year) and 34,776 m<sup>3</sup> of gravel (1<sup>st</sup> year) for the proposed depth of 65m(BGL).

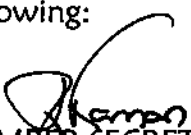
Based on the presentation made and documents furnished by the project proponent, SEAC after detailed deliberations decided the following:

1. To seek the Member Secretary/SEIAATN to write to the Director General of Mines Safety regarding the complaints received by the committee against the Proponent.
2. To assess the present status of the project site by making an on-the- spot inspection of the site by the sub-committee constituted by the SEAC.
3. Proponent shall submit the compliance report for the earlier EC issued to this project site.

On receipt of the compliance report from the proponent the subcommittee of the SEAC will inspect the site. Based on the compliance of the earlier EC and inspection report of the sub-committee, the SEAC will decide the further course of action.

As per the order Lr. No. SEAC-TN/Site inspection/Tirunelveli/2021 dated: 04.03.2021 of the Chairman, SEAC, a Sub-Committee comprising of the SEAC Members constituted to inspect and study the field conditions for the proposal seeking Environmental Clearance for the existing Rough Stone, Jelly & Gravel quarry by Thiru. C.Sugu in S.F. No. 192 (P) of Kasthuriengapuram Part-II Village, Thisayanvilai Taluk. Tirunelveli District, TamilNadu.

The sub-committee inspected the project site on 07.03.2021 and has reported the following:

  
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### Sub-Committee Observations

The Sub-Committee held detailed discussions with the proponent present and assessed the prevailing site conditions to collect the factual information and took Photographs of the salient features of the site to get the first-hand information. The photographs of the site taken at the time of site visit are presented.

1. There is no quarrying operation during the visit.
2. The fencing was not done in proper way.
3. The green belt around mines is not existing, however, there are saplings that have been planted very recently within a week's time.
4. It was observed that one of the pits has been closed with the mined- out waste materials.
5. There is no space of 7.5m each from the boundary of each mine and this required space as per mine plan has not been left out. Also there is no proof of permission granted by competent authority for taking up these minerals.
6. The proponent informed that the AD (Mines) has visited about six months back and reported that there is an excess quantity of minerals has been mined out from this mine more than the approved quantity and a fine has been levied for the same. The proponent was instructed to submit the letter from AD(Mines)to this effect as well as proof of payment to the chairman SEAC as well as to the SEIAA office at the earliest and he has also agreed for the same, as he did not have the copy of the same for submission to the subcommittee.

### Sub-Committee Recommendations

1. Miyawaki scheme of plantation needs to be made surrounding the mine for a minimum width of 7.5m.
2. The road reading to the mine should be made bitumen topped in order to reduce the fugitive emission.
3. After receiving the letter from AD (Mines) the SEAC would decide on further necessary action.
4. All the conditions stipulated in the ECs need to be scrupulously followed both in spirit as well as in terms of implementation.

  
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The inspection report of the sub-committee was placed in the 209<sup>th</sup> meeting of SEAC held on 09.04.2021. As the documents sought from AD mines, Tirunelveli for the quantity of minerals mined out and the actual depth of mining not received yet, the discussion on this project is deferred to one of the ensuing meeting after the receipt of the same and a note prepared by the concerned Engineer/Scientist.


The Project proponent furnished the above said details on 19.03.2021 and SEAC observed that the AD(Mines) reported excess quarrying of minerals beyond the approved quantity and a fine of Rs.13,83,976/- has been levied for the same vide District Collector's Notice No. M2/35490-2/209, dated. 19.08.2020. In this regard, the proponent has remitted the said fine vide challan no.50 Dt: 24.08.2020 (submitted receipt of fine remitted).

In view of the above, the proposal was again placed in 212<sup>th</sup> meeting of SEAC held on 04.05.2021. The SEAC after detailed deliberations decided to defer the project proposal seeking grant of Environmental clearance and to discuss further after ascertaining whether there is a need to assess the Environmental & Ecological damage as per the rules, as the proponent has mined out excess quantity than the stipulated quantity, by the SEIAA.

Subsequently the proposal was placed in the 456<sup>th</sup> meeting of SEIAA held on 31.08.2021. After detailed discussions, the Authority decided to refer back the application to SEAC with a request for re- appraisal of the proposal as per the law. Hence, the proposal is forwarded to SEAC for further course of action.

The proposal was again placed for appraisal in the 234<sup>th</sup> meeting of SEAC held on 22.09.2021. The SEAC decided to call the proponent for appraisal in any one of the forthcoming meetings of SEAC in regard to assessment of Ecological damage, Remediation plan and natural & community resource augmentation plan due to violation prepared by the NABET consultant as per the guidelines mentioned in the MoEF&CC Notifications dated 14.03.2017 and 08.03.2018.

The PP furnished the details sought by the SEAC on 16.3.2022, including the details of Ecological damage, Remediation plan and natural & community resource augmentation plan prepared based on the Guideline for the fixation of bank guarantee for Ecological damages, Nature resource augmentation plan and Community resource

  
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augmentation plan for the mining proposals filed under the violation notification dated: 08.03.2018. The SEAC recommended for grant of Environmental Clearance under violation subject to the conditions stated therein.

Subsequently the subject was placed before the 504<sup>th</sup> Authority meeting held on 05.05.2022. The Authority noted that the following:

- i) The application seeking ToR (Terms of Reference) submitted on Dt: 29.07.2019 and TOR was issued Dt: 11.12.2019.
- ii) The application seeking EC along with EIA report was submitted on Dt: 13.01.2021.
- iii) Based on the Sub-Committee inspection report submitted the following was noted that,

*“The proponent informed that the AD (Mine, hat visited about six months back and reported that there is an excess quantity of minerals had been mined out from this mine more than the approved quantity and a fine has been levied for the Same. The proponent was instructed to submit the letter from AD(Mines)to this effect as well as Proof of payment to the chairman SEAC as well as to the SEIAA office at the earliest and he had also agreed for the same as he did not have the copy of the same for submission to the subcommittee”*

*“The Project proponent has furnished the above said detail to SEIAA-TN on 19.03.2021 and SEAC observed that the AD(Mine)reported excess quarrying of minerals beyond the approved quantity and a fine of Rs.13,83,976 has been levied for the same vide District Collector’s Notice No. M2/35490-2/209 dated: 19.08.2020. In this regard, the proponent has remitted the said fine vide challan no.50 Dt: 24.08.2020 (Submitted receipt of fine remitted).”*

- iv) Also, it was observed that as per MoEF&CC Notifications dated 14.03.2017 and 08.03.2018, the application of the project proponent does not fall within the Window period (or) prior to the window period.
- v) The Hon’ble Madurai Bench of Madras High Court (Special original Jurisdiction) in the WP(MD) No.11757 of 2021 and WMP(MD) No. 9241 of 2021 vide order Dt: 15.07.2021 has issued interim stay for the office memorandum (O.M) Dt: 07.07.2021 (SoP for Identification and handling of Violation cases under EIA

2006 in compliance to order of Hon'ble NGT in O.A. No.34/2020). Further, O.M Dt: 28.01.2022 states that final decision may have been taken in accordance with the Orders/Rules prevailing prior to 07<sup>th</sup> July 2021.

In view of the above, the Authority after detailed discussion decided to refer back the proposal to SEAC for re-appraisal. Subsequently the subject was placed for appraisal in the 285<sup>th</sup> meeting of SEAC held on 16.06.2022.

SEAC observed the following:

The Project proponent through his EIA Coordinator, contended in the 285<sup>th</sup> meeting of SEAC that the quarry leasehold area possessing the Survey No of 192(P) is a fresh quarry and does not come under violation. Further, the penalty paid for excess quarrying quantity relates to Survey no. 193 (P) to the extent of 1.26.25 Ha, is not part of this EC application and hence it shall be processed as normal application for the grant of EC.

Based on the above observations, the SEAC decided that the PP and the concerned EIA Coordinator shall furnish explanation on the following aspects:

1. If it is not a violation case, why in the 260<sup>th</sup> meeting of SEAC, PP failed to bring it to the notice of SEAC and why was the presentation made as if it was a violation case, including submission of remediation plan, etc,
2. The EIA coordinator should explain the reasons for having presented the erroneous and flawed information to SEAC.

On receipt of the above information, the Committee would further deliberate on this project and decide the further course of action.

Proponent furnished his reply vide letter dated 26.09.2022. Hence the subject was placed in the 319<sup>th</sup> meeting of SEAC held on 12.10.2022. The Committee noted that the proponent has not turned up for the meeting and the EIA Coordinator requested for time. Hence, the Committee decided to defer the proposal.

Now, the proposal was taken up for discussion in this 334<sup>th</sup> meeting of SEAC held on 02.12.2022. SEAC noted that the proposal falls under violation category and the application is outside violation window period.

After detailed discussions, the SEAC decided to take up the subject for further deliberations based on the outcome of the court case filed before the Hon'ble High Court of Madras (Madurai Bench) vide *W.P.(MD) No. 11757 of 2021 titled Fatima Vs*

  
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*Union of India challenging the SoP for violation proposals dated 07<sup>th</sup> July 2021 and meanwhile, to call for the following additional particulars from the Proponent.*

1. Supplementary EIA for damage assessment.
2. Project Proponent shall remit the penalty imposed by the department of Geology & Mines and furnish the supporting document for the same.
3. Mine plan approval letter.

The Project Proponent furnished the details sought vide letter dated 10.05.2023 and hence the subject was taken up for discussion in this 389<sup>th</sup> meeting of SEAC held on 06.07.2023. The SEAC noticed that the Project Proponent has requested for postponing the appraisal of his subject to a later date. The Committee decided to defer the subject as requested by the Project Proponent.

**Agenda No. 389-10**

**(File No: 9117/2022)**

**Proposed Multi colour Granite quarry lease over an extent of 1.66.0 Ha in S.F.No 71/2, Alampatti Village, Sattur Taluk, Virudhunagar District Tamil Nadu by Tvl.Amman Granites – Amendment to Environmental Clearance.**

**(SIA/TN/MIN/299517/2023 Dt.20.04.2023)**

The proposal was placed for appraisal in this 389 meeting of SEAC held on 06.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Tvl.Amman Granites has applied for amendment to Environmental Clearance issued for the proposed Multi colour Granite quarry lease over an extent of 1.66.0 Ha in S.F. No 71/2, Alampatti Village, Sattur Taluk, Virudhunagar District Tamil Nadu, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. EC Lr.No. SEIAA-TN/F.No.9117/EC.No.5269/2021 DATED 05.09.2022

Now, the proponent has applied seeking the following amendment to the aforesaid Environment Clearance stating that,

  
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Reference of Approved EC	Description as per Application and Approved EC	Amendment Required
Lr.No.SEIAA-TN-F.No.9117/EC.No:5269/2021 dated: 05.09.2022	E 77° 57' 14.40" to E 77° 18' 18.19"	E 77° 57' 14.40" to E 77° 57' 18.19"

Based on the presentation & documents furnished by the project proponent, SEAC decided to recommend for the grant of amendment to the Environment Clearance granted already as in the above tabulation. All the other conditions mentioned in the EC vide Lr.No. SEIAA-TN/F.No.9117/EC.No.5269/2021 dated: 05.09.2022 remain unaltered.

**Agenda No: 389 - 11**

**(File No: 9645/2022)**

**Proposed Karimbedu Sand Quarry Project for Restoring the Functional Efficiency of the Kosasthalaiyar River over an Extent of 4.95.0Ha of Government land in S.F.No. 187 (Part) of Kosasthalaiyar (Nagari) River in Karimbedu Village, Pallipattu Taluk, Tiruvallur District, Tamil Nadu by the Executive Engineer, PWD/WRD – For Environmental Clearance. (SIA/TN/MIN/409817/2022 Dt. 08.12.2022)**

The proposal was placed for appraisal in this 340<sup>th</sup> SEAC Meeting held on 23.12.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance for the Proposed Karimbedu Sand Quarry Project for Restoring the Functional Efficiency of the Kosasthalaiyar River over an Extent of 4.95.0Ha of Government land in S.F.No. 187 (Part) of Kosasthalaiyar (Nagari) River in Karimbedu Village, Pallipattu Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for one year and the mining plan is for the period of One year & mining quantity should not exceed 50,985 cu.m. of sand per annum. The ultimate depth - 2.06 metres (1.16m – Above River Bed

  
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(Shoal) & 0.90m - Below River Bed).

4. Earlier the proposal was placed in the 340<sup>th</sup> SEAC meeting held on 23.12.2022. Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub Committee constituted by SEAC to assess the present Environmental Condition. Further, the PP shall furnish the following details during the site inspection.
  1. The Project Proponent shall study and report in detail on the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020".
  2. Pillar stone shall be erected before the site inspection.
5. Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr. No. SEAC-TN/9645/ Site Inspection/2022, dt. 23.12.2022 to inspect and study the field condition for the proposal seeking EC for a sand quarry proposed at Karimbedu Village in S.F.No. 187 (Part) Pallipattu Taluk, Tiruvallur District. The Committee comprises of Prof. Dr. Kurian Joseph., Member, SEAC.
6. The proposal was again placed in 359<sup>th</sup> SEAC meeting held on 02.03.2023. Based on the recommendations of the sub-committee and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance.
7. Subsequently, the proposal was placed in 605<sup>th</sup> Authority meeting held on 28.03.2023. Authority after detailed deliberation, noted that
  2. Appeal Number 80 of 2022 has been filed in the Hon'ble NGT, Southern Zone has passed various orders as below  
Order dated: 27.03.2023  
*"...It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under 'B1 – Category' which would require the public hearing, replenishment study and also the EIA Study."*

  
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Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

In the view of the above, Authority decided to refer back the proposal to SEAC to examine the aforementioned NGT order and shall furnish its recommendation to SEIAA regarding the category under which the proposal may be granted EC. Based on the above, the proposal was again placed in 376<sup>th</sup> SEAC meeting held on 05.05.2023. SEAC decided to defer the proposal and take up in the ensuing meeting.

Now, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

**Agenda No: 389- 12**

**(File No: 9469/2022)**

**Proposed Construction of Residential & Commercial Development building S.F.No. 701/1A, 701/1B, 701/2A, 701/2B, 702/1(pt), 702/1A, 702/1B, 702/1C, 702/1D, 702/2 and 761/2, T. S. No. 1/2, 1/3 & T. S. No. 2, Block No. 20 Madhavaram Village, Madhavaram Taluk Thiruvallur District, Tamil Nadu by M/s. Alliance Villas Pvt. Ltd - Issue of Terms of Reference (ToR) under violation category.**

**(SIA/TN/MIS/291065/2022, dated 30.08.2022)**

The proposal was placed in 389<sup>th</sup> SEAC meeting held on 06.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Alliance Villas Pvt. Ltd has applied for Environmental Clearance for the Proposed Construction of Residential & Commercial Development building S.F.No. 701/1A, 701/1B, 701/2A, 701/2B, 702/1(pt), 702/1A, 702/1B, 702/1C, 702/1D, 702/2 and 761/2, T. S. No. 1/2, 1/3 & T. S. No. 2, Block No. 20 Madhavaram Village, Madhavaram Taluk, Thiruvallur District, Tamil Nadu.

  
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2. The project/activity is covered under Category "B" of item 8(a) "Building & Construction" of the Schedule to the EIA Notification, 2006.
3. Total land area is 19702.04 Sqm. The total built-up area of the proposed residential building is 82989.39 Sqm.
4. Earlier, the proposal was placed in the 344<sup>th</sup> SEAC meeting held on 06.01.2023. Based on the presentation and document furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance.
5. Subsequently, the proposal was placed in the 589<sup>th</sup> Authority meeting held on 08.02.2023. The Authority after detailed deliberation, decided to call for additional details
  1. As per the covering letter dated: 06.09.2022, earlier EC had been obtained in the name of Tamil Nadu Maheswari Foundation vide Lr.No. SEIAA/TN/F.5597/2016/ EC/8(a)/577/2018 dt: 09.05.2018. Further, proponent had stated that Tamil Nadu Maheshwari Foundation would like to surrender the earlier issued EC.
  2. Further, in the affidavit submitted by Tamil Nadu Maheswari Foundation to the O/o SEIAA, has stated that "we will surrender the existing Environmental Clearance". Hence, PP shall make sure that Tamil Nadu Maheswari Foundation shall surrender the earlier EC issued in Form 11 and submit the same to the O/o SEIAA.
  3. The proponent is requested to submit the cost-effective technology deployed to reduce GHG emissions.
  4. The proponent is requested to submit the strategies that will be adopted to make it carbon neutral or zero carbon building.
  5. The proponent is requested to submit the strategies that will be adopted to reduce emissions during operation (operational phase and building materials)
  6. The proponent is requested to submit the strategies that will be adopted to decarbonize the building.

  
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7. The proponent is requested to submit the strategies that will be adopted to maintain the health of the inhabitants.
8. The proponent is requested to submit the strategies that will be adopted to reduce electricity demand and consumption.
9. The proponent is requested to submit the details regarding the provisions for automated energy efficiency.
10. The proponent is requested to submit the strategies that will be adopted to reduce temperature including the Building Façade.
11. The proponent is requested to submit the details regarding the methodology that will be adopted to effectively implement the SWM 2016, Plastic Waste Management 2016, and E – Waste 2016.
12. The proponent is requested to furnish the details regarding the area coverage of solar panels and contribution to the grid from the solar panel proposed.
13. The proponent is requested to submit the details regarding the methodology adopted to control thermal environment and other shocks in the building.
14. The proponent shall furnish details on the actions taken to reduce anthropogenic GHGs such as CO<sub>2</sub>, CH<sub>4</sub>, nitrous oxide, etc., resulting from human activities.
15. The proponent shall furnish details on the strategies adopted to decarbonize the building.
16. The proponent shall furnish measures taken to mitigate the impact on critically endangered species, biodiversity, etc, due to the modification of the habitat.
17. The proponent shall develop emergency response plan in addition to the disaster management plan.
18. The proponent shall furnish details on building-friendly pest control strategies developed using non-chemical measures so as to control the pest population thereby not losing beneficial organisms.

  
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19. The proponent shall furnish the measures taken to prevent the spread of invasive species.
20. The proponent furnish detailed plan adopted to reduce carbon footprints and also strategies for climate proofing and climate mitigation.
21. The proponent shall furnish details on strategies developed to ensure the buildings in blocks don't trap heat and become local urban heat islands.
22. The proponent shall furnish details on the sustainability criteria adopted to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements.
23. The proponent shall furnish details on the strategies developed to prevent bird hits.
24. The proponent shall furnish details on the provisions made to ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.
25. The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan during emergencies.
26. The proponent shall furnish details on the strategies adopted to maintain the health of the inhabitants in high rise buildings.
27. The proponent shall explain the methodology adopted to control thermal environment and other shocks in the building.
28. The proponent shall provide details on the provisions for controlled ventilation and lighting systems.

In view of the above, Authority decided to communicate the minutes to the project proponent.

Subsequently, the proponent had furnished the details called for to this O/o SEIAA on 01.03.2023. Subsequently, a complaint was received to this O/o SEIAA on 30.03.2023. Based on the above, the proposal was again placed in 615<sup>th</sup> SEIAA meeting held on 08.05.2023 & 09.05.2023.

The Authority after detailed deliberation, noted that

  
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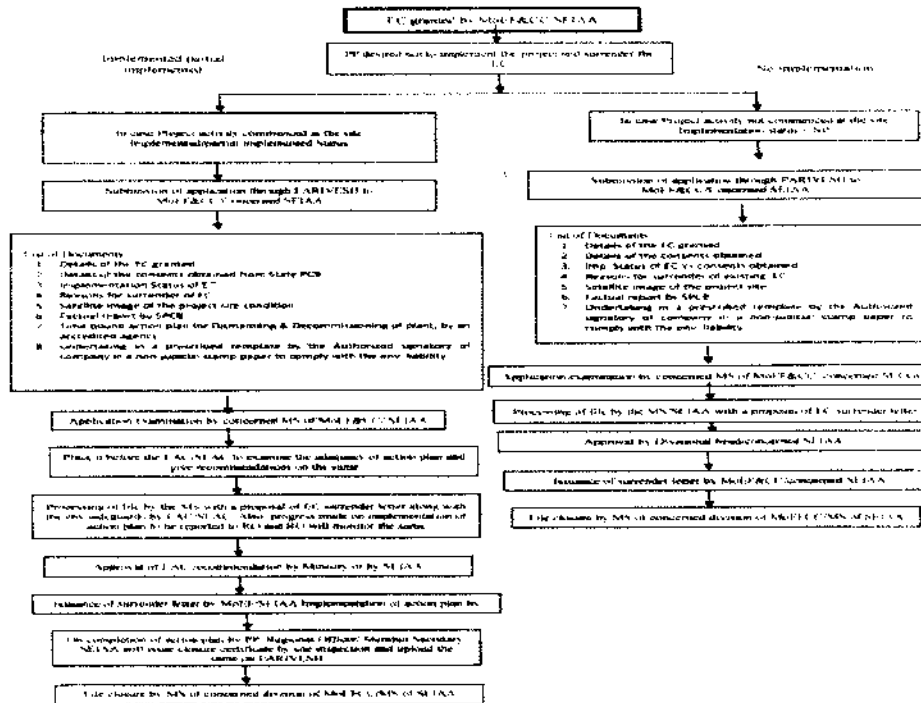
  
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1. As per the covering letter dated: 06.09.2022, earlier EC had been obtained in the name of Tamil Nadu Maheshwari Foundation vide Lr.No. SEIAA/TN/F.5597/2016/EC/8(a)/577/2018 dt: 09.05.2018. Further, proponent had stated that Tamil Nadu Maheshwari Foundation would like to surrender the earlier issued EC.
2. As per the OM F.No.IA3-22/10/2022-IA.III Dated: 29.03.2022 – Procedure to be followed by the project proponent while surrendering the prior Environmental Clearances accorded by MoEF&CC/ SEIAA for developmental projects.
3. Further, as per the aforesaid OM Dated: 29.03.2022, Para 3  
*“...whenever any Project Proponent relating to schedule 3, 4, 5, 6, 7(d), 7(da), 7(h), 7(i) and 8(a) abandons the Project or Activity for which prior EC was granted, the project proponent has to submit an application in the prescribed form along with requisite documents through PARIVESH to the concerned Competent Authority for surrendering the respective EC. The application shall be considered as per the flowchart enclosed herewith depending upon the implementation status of the project or activity.”*

Para 4

*“...The project proponent shall be accountable for adherence/compliance of the EC conditions till such time as the project is finally closed by the Ministry/SEIAA, as the case may be, based on certified closure report of IROs.”*

**WORK FLOW FOR THE PROPOSALS INVOLVING SURRENDER OF EC UNDER RIA, 2006**  
(Apparative to the OM No. 182-22/10/2022-IA.IR.17725N1 dated 29.03.2022)



4. Further, the complaint had stated that

- i. The Land has been classified as Agricultural land and situated in low lying land. Further, Land use classification has not been changed from the competent authority.
- ii. Further, 4368 sqm of area had been already been handed over to Chennai Metropolitan Development Authority (CMDA) through gift deeds Nos. 241/2018, 242/2018 and 239/2018 by the Tamil Nadu Maheshvari Foundation. Further, the part of the land where the unauthorized construction and development work is being carried out, belongs to Chennai Metropolitan Development Authority (CMDA)(Photo annexed along with Complaint)

Further, the proponent is yet to surrender the earlier issued EC in the prescribed format and procedure given by MoEF&CC vide OM dated: 29.03.2022. Hence, only upon the surrender of the earlier issued EC in prescribed proforma is completed, the recommendation given by SEAC pertaining to F.No. 9469 / Online number SIA/TN/MIS/291065/2022, dated

  
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30.08.2022 shall be considered and till then the recommendation given by SEAC is kept in abeyance.

Hence, in the view of the above facts and documents received, Authority decided to refer back the proposal to SEAC and committee is requested to examine the above-mentioned OM Dated: 29.03.2022 and shall verify the status of implementation and shall furnish its remarks to SEIAA.

Now, the proposal was again placed in the 389<sup>th</sup> SEAC meeting held on 06.07.2023. During the presentation, SEAC noted that

- i. The proposed site has a valid Environmental Clearance issued in the name of M/s Tamil Nadu Maheswari Foundation vide Lr.No. SEIAA/TN/F.5597/2016/ EC/8(a)/577/2018 dt: 09.05.2018.
  - ii. Further, the Environmental clearance was issued for the Construction of Residential Buildings, Commercial Buildings (Kalyana Mandabam, Club House) and Institutional Building (Nursery & Primary School) Project.
  - iii. The EIA Coordinator disclosed that the proponent M/s Alliance Villas Pvt. Ltd has constructed an office building which is not part of the earlier obtained Environmental Clearance.
1. As per MoEF&CC Office Memorandum vide F.No. IA3-22/10/2022-IA.III dated: 05.05.2022 – Clarification with regard to non-requirement of EC amendment due to change in conceptual plan arising out of statutory requirements in building and construction sector, para 5, 6 & 7 states as follows.

*“...5. Accordingly, matter has been examined and it has been decided that any change in configuration/planning/design of the appraised building Project for which EC was granted shall not require amendment of EC, subject to no change in (i) Built Up Area (ii) Floor Area Ratio (FAR) (iii) change in exterior spaces/green belts, parking, walkways and driveways that are covered including attics and outdoor sports courts. Further there shall be no change in the designated use of the building, number of dwelling units, height of the building, number of floors & basements and total excavation of earth of the building/construction/ township/ area development project so as not to require*

  
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*any changes in the already approved Environmental Impact Analysis (EIA) and Environmental Management Plan (EMP).*

2. Any addition, alteration, modification in the conceptual plan, as stated at para- 6 of the EIA Notification 2006, for which prior EC was granted other than the changes falling under the category of permissible changes as explained in para 5 above which results in the increase in pollution of any type beyond the approved levels necessitating fresh EIA/EMP shall be treated as Violation and shall be dealt with accordingly as per the provisions of the Office Memorandum dated 7th July 2021.”
3. SEAC noted, through Google maps and the photographs submitted by the proponent and also details contained in the complaint letter, that the PP has commenced construction of at least two framed structures, not covered by the previous EC.


In the light of the above facts and Office Memorandum cited above, the Committee decided to (1) reverse its earlier recommendation, (2) treat this as a violation category and (3) recommend for the grant of sector specific standard Terms of Reference (ToR) under violation category in 3 parts for the project, for assessment of Ecological damage, remediation plan and natural & community resource augmentation plan to be prepared as an independent chapter in the Environment Impact Assessment report by the Accredited consultant and also with collection and analysis of data for the assessment of ecological damage, preparation of remediation plan and natural & community resource augmentation plan to be done by an Environmental laboratory duly notified under the Environment (Protection) Act, 1986, accredited by NABET or a laboratory of council of Scientific and Industrial research Institutions working in the field of Environment in addition to the following ToRs:

1. This ToR is issued subject to the outcome of the court case filed before the Hon'ble High Court of Madras (Madurai Bench) vide W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India challenging the SoP for violation proposals dated 07th July 2021.
2. No construction shall be initiated at the project site without obtaining prior Environmental Clearance.

  
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3. The impact of proposed activity in the nearby lake during construction stage and operational phase shall be studied and appropriate mitigation measures shall be submitted along with EIA Report.
4. The entire land ownership details shall be included in the EIA report.
5. The PP shall Submit the present land use and permission required for any conversion such as forest, agriculture etc. land acquisition status, rehabilitation of communities/ villages and present status of such activities.
6. The PP shall explore construction of pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area. (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a structure which was crucial to the overall eco-system.
7. The PP shall furnish Commitment letter from competent authority for supply of water.
8. Copy of the village map, FMB sketch and "A" register shall be furnished.
9. The proponent shall furnish the design details of the STP and ETP treatment system.
10. The space allotment for solid waste disposal and sewage treatment & grey water treatment plant shall be furnished.
11. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
12. Details of the E-waste management plan shall be prepared as per E-waste Management Rules,2016 and shall be furnished.
13. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modelling for the ground water, emission, noise and traffic.
14. Examine baseline environmental quality along with projected incremental load due to the proposed project/activities.
15. The air quality monitoring should be carried out according to the notification issued

  
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on 16th November, 2009.

16. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
17. Submit details of a comprehensive Risk Assessment and Disaster Management Plan including emergency evacuation during natural and man-made disasters.
18. Submit details of the trees to be cut including their species and whether it also involves any protected or endangered species. Measures taken to reduce the number of the trees to be removed should be explained in detail. Submit the details of compensatory plantation. Explore the possibilities of relocating the existing trees.
19. The project proponent is advised to retain the trees available at the project site. In case of necessity, if any to remove the trees, the project proponent shall commit to plant minimum of 10 nos. of trees for every tree that is cut.
20. Examine the details of afforestation measures indicating land and financial outlay. Landscape plan, green belts and open spaces may be described. A thick green belt should be planned all around the nearest settlement to mitigate noise and vibrations. The identification of species/ plants should be made based on the botanical studies.
21. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area.
22. Details of the rain water harvesting system with cost estimation should be furnished.
23. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
24. The purpose of Greenbelt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and

around the premise in consultation with the DFO, District / Tamil Nadu Agriculture University, Coimbatore / Faculty of Agricultural Sciences, Annamalai University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 15 metre wide and in between blocks in an organized manner and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 33% of the total area and the same shall not be used for car parking/OSR,

25. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.
26. Submit details regarding R&R involved in the project.
27. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.
28. The proposal for utilization of at least 50% of Renewable Energy shall be included in the EIA/EMP report.
29. Detailed Evacuation plan during emergency/natural disaster/untoward accidents shall be submitted.
30. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall furnish the detailed EMP.

**Agenda No: 389 - 13**

**(File No: 6829/2023)**

**Proposed Rough Stone and earth quarry lease area over an extent of Extent 2.06.0 Ha at SF.No. 8/1B & 8/2 of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu by Tvl. Sri Santhosh Blue Metals - For Environmental Clearance.**

**(SIA/TN/MIN/416799/2023, Dated: 03.02.2023)**

The proposal was placed for appraisal in this 389<sup>th</sup> meeting of SEAC held on 06.07.2023. The details of the project furnished by the proponent are given in the

  
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website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tvl. Sri Santhosh Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone and earth quarry lease area over an extent of Extent 2.06.0 Ha at S.F.No. 8/1B & 8/2 of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 2,98,440m<sup>3</sup> of Rough stone and 30,740m<sup>3</sup> of Gravel with an ultimate depth of Mining 47m below ground level.
4. ToR issued vide - Lr No -SEIAA-TN/F.No.6829/SEAC/ToR-968/2021, Dated: 05.07.2021.
5. Public hearing was conducted on Dated 12.04.2022.
6. Earlier, the proposal was placed in the 370<sup>th</sup> SEAC Meeting held on 25.04.2023. The EIA Coordinator requested to postpone and reschedule the meeting. Hence, the proposal was not taken up for appraisal.

Now, the proposal was again placed in the 389<sup>th</sup> SEAC meeting held on 06.07.2023. The EIA Coordinator requested to postpone and reschedule the meeting. Hence, the proposal was not taken up for appraisal.

**Agenda No: 389-14**

**(File No.9723/2023)**

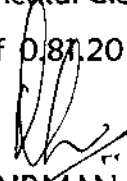
**Proposed brick earth quarry lease over an extent of 0.81.20 Ha at S.F.No. 36/1A2 of Vembedu Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu by Thiru. G. Venkatesan – For Environmental clearance (SIA/TN/MIN/413528/2023, dated: 09.01.2023)**

The proposal was placed in the 389<sup>th</sup> meeting of SEAC held on 06.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Thiru. G. Venkatesan, has applied for Environmental Clearance for the Proposed brick earth quarry lease over an extent of 0.81.20 Ha at

  
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S.F.No. 36/1A2 of Vembedu Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:


File No	9723		Category	1(a)
	SIA/TN/MIN/413528/2023			B2
Sl. No	Salient Features of the Proposal			
1	Name of the Owner/Firm	:	Thiru. G. Venkatesan, Tvl. Om Sakthi Brick Industries, Magaral Village, Tiruvallur Taluk, Tiruvallur District – 601 103.	
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Brick Earth Quarry	
3	S.F Nos. of the quarry site with area break-up	:	S.F.Nos.36/1A2	
4	Village in which situated	:	Vembedu	
5	Taluk in which situated	:	Uthukottai	
6	District in which situated	:	Tiruvallur	
7	Extent of quarry (in ha.)	:	0.81.20 ha	
8	Latitude & Longitude of all corners of the quarry site	:	13°13'57.82"N to 13°14'03.29"N 79°57'48.49"E to 79°57'50.40"E	
9	Topo Sheet No.	:	570/16	
10	Type of mining	:	Opencast method of shallow Mining without drilling & blasting	
11	Life of Project	:	1 year	
	Lease Period	:	1 year	
	Mining Plan Period	:	1 year	

  
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	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
12	Geological Resources m <sup>3</sup> (RoM)	:	Brick Earth-8,120m <sup>3</sup>	Brick Earth-8,120m <sup>3</sup>
	Minable Resources m <sup>3</sup> (RoM)	:	Brick Earth-3,317m <sup>3</sup>	Brick Earth-3,317m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Brick Earth-3,317m <sup>3</sup>	Brick Earth-3,317m <sup>3</sup>
	Ultimate Depth in meters	:	1m below ground level	1m below ground level
13	Depth of water table	:	30m below ground level	
14	Man Power requirement per day:	:	7 Nos.	
15	Water requirement:	:	1.0 KLD	
	1. Drinking and Domestic Purpose	:	0.4 KLD	
	2. Dust suppression	:	0.3 KLD	
	3. Green belt	:	0.3 KLD	
16	Power requirement	:	No electricity is required.	
17	Precise area communication approved by the Assistant Director, Dept. of G&M with date	:	R.c. No.406/2020/Kanimam-2, Dated 24.02.2021.	
18	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	:	R.c. No.406/2020/G&M-2, Dated 03.03.2021.	
19	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	:	R.c. No.406/2020/G&M-2, Dated 03.03.2021.	

  
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20	VAO Certificate Regarding Structures/Habitations within 300m Radius		Letter dated: 03.03.2021.
21	Project Cost (excluding EMP cost)	:	Rs. 3.37.400/-
22	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Brick earth
		:	Max Total RoM in m <sup>3</sup>
			3317m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>
			3317m <sup>3</sup>
		:	Max Depth in mtrs
			1m below ground level
23	EMP cost (in Rs. Lakh).	:	4.62 Lakhs/-
24	CER cost (in Rs. Lakh).	:	Rs.1.50.000/-

4. The project proponent has submitted a soil test report obtained from the College of Engineering, Guindy Campus, Anna University, Chennai vide Lr.No: SM&FE 203d/Soil Test/ Vembedu Village/ 2021 Dated:20.12.2021. According to the test report, the total % of sand in the soil sample is 31% and the soil is classified as Clay of Intermediate Plasticity (CI).

5. Deputy Director, Dept. of Geology and Mining, Tiruvallur vide Rc.No.406/2020/G&M-2 dated.12.05.2022 informed that .....

*"...The location of proposed area for removal of ordinary earth does not lies within 50meters from the rivers, streams, canals, etc., and so does not come under any notified/ declared protected zones."*

Based on the presentation and details furnished by the project proponent, SEAC recommended to grant of Environmental Clearance for the total excavation volume of 3317m<sup>3</sup> of brick Earth for the maximum period of 1 year with maintaining an ultimate depth of 1 m below Ground Level, subject to the standard conditions & normal

  
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conditions stipulated by MOEF &CC and Annexure-I, in addition to the following specific conditions:

1. The PP shall not carry out the drilling and blasting activities in the quarry.
2. The PP shall carry out the special protective mitigation measures for non-disturbance of the odai situated nearby.
3. The PP shall execute an affidavit at the time of lease execution indicating that the brick earth excavated from the above lease is used only for his brick manufacturing factory located nearby.
4. As accepted by the Project proponent, the CER cost is Rs. 1.5 lakhs and the amount shall be spent for the committed activities towards Government Primary School, Poondi Village before obtaining CTO from TNPCB.

**Agenda No: 389 - 15**

**(File No: 9492/2022)**

**Proposed Sand quarry over an extent of 4.93.0 Ha in Cauvery river located at S.F. No: 170 (P), Sarkar Manapalli Village, Mohanur Taluk, Namakkal District, Tamil Nadu by M/s. The Executive Engineer, PWD/WRD– For Environmental Clearance. (SIA/TN/MIN/ 288558/2022 Dt.17.08.2022)**

Earlier, the proposal was placed for appraisal in 322<sup>nd</sup> SEAC Meeting held on 19.10.2022 and 362<sup>nd</sup> SEAC meeting held on 13.03.2023. The details of the minutes are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The Proponent, M/s. The Executive Engineer, PWD/WRD, has applied for Environmental Clearance proposed Sand quarry over an extent of 4.93.0 Ha in Cauvery River located at S.F. No: 170 (P), Sarkar Manapalli Village, Mohanur Taluk, Namakkal District, Tamil Nadu.
2. The project/activity is covered under category “B2” of Item 1(a) “Mining of Minerals Projects” of the schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 2 years and the mining plan for the period of 2 years & mining quantity should not exceed 93,177m<sup>3</sup> of sand. The ultimate depth 1.89m (0.89m Above Bed Level + 1m Below Bed Level) for a period of two years.

  
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The proposal was placed in 608th Authority Meeting dated 05.04.2023 and 06.04.2023.

The Authority noted that this proposal was placed for appraisal in 362<sup>nd</sup> SEAC meeting held on 13.03.2023. SEAC decided to recommend the issue of Environmental Clearance subject to certain conditions stated therein.

The Authority further noted that PILs have been filed before the Hon'ble High Court of Madras (Madura Bench) vide WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 with the prayer to restrict sand mining using heavy machineries in the River basin of Kaveri/Kollidam considering the stability of the Kallanai Dam and the case is pending before the Hon'ble Court.

In addition to that Authority noted that,

1. Appeal Number 80 of 2022 has been filed in the Hon'ble NGT, Southern Zone has passed various orders as below,

Order dated: 27.03.2023

*"...It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under 'B1 – Category' which would require the public hearing, replenishment study and also the EIA Study."*

Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

In the view of the above, Authority decided to refer back the proposal to SEAC to furnish remarks on permitting mechanized sand quarrying near Kallanai Dam by considering the WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 pending before the Hon'ble Court and to examine the aforementioned NGT order and shall furnish its recommendation to SEIAA regarding the category under which the proposal may be granted EC. Also SEAC Shall furnish the recommendation regarding usage of no of poclains with respect of 90<sup>th</sup> SEAC Minutes dated 06.06.2017.

Then the proposal was placed in the 376<sup>th</sup> SEAC Meeting held on 05.05.2023. During the presentation, committee decided to defer the proposal and take up for appraisal in the ensuing meeting.

  
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Now, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

**Agenda No: 389 - 16**

**(File No: 2519/2022)**

**Existing Grey granite quarry over an extent of 2.16.0 Ha at S F. No. 356/1B1, 356/2, 356/3B, 360/2 of Chendarapalli Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Thiru. D. Loganathan - For Environmental Clearance Extension. (SIA/TN/MIN/299582/2023, Dated: 22.04.2023).**

The proposal was placed in the 389<sup>th</sup> SEAC Meeting held on 06.07.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Proponent, Thiru. D. Loganathan has applied for Environmental Clearance Extension of Existing Grey granite quarry over an extent of 2.16.0 Ha at S F.No. 356/1B1, 356/2, 356/3B, 360/2 of Chendarapalli Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. EC Issued vide Lr. No. SEIAA-TN/F.No.2519/EC/1(a)/2638/2015 dated:05.01.2016.
4. Amendment Issued vide Lr. No. SEIAA-TN/F.No.2519/2013 dated: 30.04.2021.
5. EC extension applied on Dated:26.04.2023.

The PP has requested the SEAC to grant permission for the withdrawal of the proposal, as the project is not eligible to obtain the extension of Environmental Clearance granted earlier. Hence the Committee decided that SEIAA may consider withdrawal request as and when received.

  
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Agenda No: 389-17

(File No: 9458/2022)

Proposed Sand quarry over an extent of 4.95.0 Ha in Cauvery River located at SF. No. 47 (P) of Bommalapalayam village, Paramathi Vellore Taluk, Namakkal District, Tamil Nadu by M/s. The Executive Engineer, PWD/WRD – For Environmental Clearance. (SIA/TN/MIN/288258/2022 Dt.11.08.2022)


Earlier, this proposal was placed for appraisal in 322<sup>nd</sup> SEAC Meeting held on 19.10.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

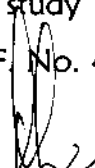
1. The Proponent, M/s. The Executive Engineer, PWD/WRD, has applied for Environmental Clearance proposed Sand quarry over an extent of 4.95.0 Ha in Cauvery river located at SF. No. 47 (P) of Bommalapalayam village, Paramathi Vellore Taluk, Namakkal District, Tamil Nadu.
2. The project/activity is covered under category “B2” of Item 1(a) “Mining of Minerals Projects” of the schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 2 years and the mining plan for the period of 2 years & mining quantity should not exceed 99,000m<sup>3</sup> of sand. The ultimate depth 2m (1m Above Bed Level + 1m Below Bed Level) for a period of Two years.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub Committee constituted by SEAC to assess the present Environmental Condition. Further, the PP shall furnish the following details during the site inspection.

1. The Project Proponent shall study and report in detail on the “Replenishment Study” as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020”.
2. Pillar stone shall be erected before the site inspection.

The proposal was placed in 362<sup>nd</sup> SEAC meeting held on 13.03.2023. The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a subcommittee vide its Lr.No. SEAC/TN/9458 Site Inspection/2022, dt. 21.10.2022 to inspect and study the field condition for the proposal seeking EC for a sand quarry proposed at SF. No. 47 (P) of

  
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Bommalapalayam village, Paramathi Vellore Taluk, Namakkal District, Tamil Nadu. The Committee comprises of Dr. P. Balamadeswaran, Member, SEAC.

As per the above letter the sub-committee visited the site on 18.01.2023 and recommended the proposal for grant of Environmental Clearance.

The proposal was placed in 608th Authority Meeting held on 05.04.2023 and 06.04.2023. The Authority noted that this proposal was placed for appraisal in 361<sup>st</sup> SEAC meeting held on 10.03.2023. SEAC decided to recommend the issue of Environmental Clearance subject to certain conditions stated therein.

The Authority further noted that PILs have been filed before the Hon'ble High Court of Madras (Madurai Bench) vide WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 with the prayer to restrict sand mining using heavy machineries in the River basin of Kaveri/Kollidam considering the stability of the Kallanai Dam and the case is pending before the Hon'ble Court.

In addition to that Authority noted that,

2. Appeal Number 80 of 2022 has been filed in the Hon'ble NGT, Southern Zone has passed various orders as below,

Order dated: 27.03.2023

*"...It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under 'B1 – Category' which would require the public hearing, replenishment study and also the EIA Study."*

Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

In view of the above, Authority decided to refer back the proposal to SEAC to furnish remarks on permitting mechanized sand quarrying near Kallanai Dam by considering the WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 pending before the Hon'ble Court and to examine the aforementioned NGT order and shall furnish its recommendation to SEIAA regarding the category under which the proposal may be granted EC. Also, SEAC shall furnish the recommendation regarding usage of no of poclains with respect of 90<sup>th</sup> SEAC Minutes dated 06.06.2017.

  
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The proposal was placed in the 376<sup>th</sup> SEAC Meeting held on 05.05.2023. During the presentation, committee decided to defer the proposal and take up for appraisal in the ensuing meeting.

Now, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

**Agenda No: 389-18**

**(File No: 9903/2023)**

**Proposed sand quarry lease over an extent of 4.90.0 Ha in S.F. No: 195(P), Veeramuiayanatham Village, Bhuvanagiri Taluk, Cuddalore District, Tamil Nadu by the Executive Engineer, PWD - For Environmental Clearance.**

**(SIA/TN/MIN/412520/2023, Dated: 06.01.2023)**

The proposal was placed in this 377<sup>th</sup> meeting of SEAC held on 10.05.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). During the meeting the PP has requested to place this subject in ensuing meeting. Therefore, SEAC decided to defer the proposal.

Now, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

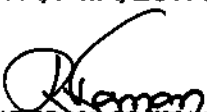
Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

**Agenda No: 389 - 19**

**(File No: 8261/2022)**

**Existing sand quarry in Cauvery River poramboke land at S.F.No.1(P), over an extent of 4.90.0Hectares in Kallapalli Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by The Executive Engineer, PWD/WRD, Mining & Monitoring Division, Tiruchirappalli - for amendment for Environmental Clearance.**

**(SIA/TN/MIN/261141/2022 Dt:11.03.2022)**

  
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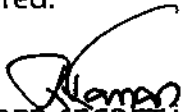
Earlier, the proposal was placed in this 361<sup>st</sup> Meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available on the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)). The SEAC noted the following:


1. Earlier, EC was issued vide Lr. No. SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021, dated: 27.03.2021 for the existing sand quarry in in Cauvery River S.F.No.1(P), over an extent of 4.90.0Hectres in Kallapalli Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by The Executive Engineer, PWD/WRD, Mining & Monitoring Division, Tiruchirappalli for the quarrying of 23709cu.m of Shoals & 49000cu.m of Sand for the period of 2 Years and upto 1m below bed level as per mining plan vide Rc. No. 833/Mines /2020 Dt:07.12.2020.
2. Now the PP has sought amendment for Environmental Clearance for the existing sand quarry in Cauvery River poramboke land at S.F.No.1(P), over an extent of 4.90.0Hectres in Kallapalli Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by The Executive Engineer, PWD/WRD, Mining & Monitoring Division, Tiruchirappalli for the following

S.No.	Previous EC Conditions vide Lr. No. SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021, dated: 27.03.2021	Amendment Sought for
1.	Open cast Manual Mining	Open cast Mechanized Mining
2.	Manual Loading	Loading by Hydraulic Excavator
3.	Bullock Cart Transportation	General transportation using Tipper, Tractor & Bullock cart.

3. Modified Mining Plan vide Rc. No. 833/Mines /2018 Dt:10.02.2023.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of amendment for Environmental Clearance in regard to the following amendment sought shall be amended and substituted in the earlier EC issued vide Lr. No. SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021, dated: 27.03.2021 as follows subject to all other conditions stipulated vide EC Lr. No. SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021, dated: 27.03.2021 remains unaltered.

  
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S.No.	Previous EC Conditions vide Lr. No. SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021. dated: 27.03.2021	Amendment Sought for	Amendment granted
1	Open cast Manual Mining	Open cast Mechanized Mining	Open cast Mechanized Mining
2	Manual Loading	Loading by Hydraulic Excavator	Loading by Hydraulic Excavator
3	Bullock Cart Transportation	General transportation using Tipper, Tractor & Bullock cart.	General transportation using Tipper, Tractor & Bullock cart (from stock yard only).

Subject to the following other conditions:

1. 10% of the total excavated quantity shall be utilized for local beneficiaries.
2. The PP shall plant at least 1000 no of tree plants along the banks of the River in the vicinity of the site, as a part of EMP.

Subsequently, the subject was placed in 607<sup>th</sup> Authority meeting held on 03.04.2023. The Authority after detailed discussion decide to refer back the proposal seeking amendment of EC Dt: 27.03.2021 to SEAC in regard to W.P. (MD). No. 5919 of 2023 pending before Hon'ble Madurai Bench of Madurai High Court.

The proposal was again placed in 376<sup>th</sup> SEAC meeting held on 05.05.2023 and SEAC has decided to defer the proposal and to take up this proposal in any one of the ensuing SEAC meeting.

Subsequently, the subject was placed in 623<sup>rd</sup> authority meeting held on 30.05.2023. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 05.05.2023.

Now, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

  
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Agenda No: 389 - 20

(File No: 9904/2023)

Proposed sand quarry in Vellaru river over an extent of 4.87.5 Hectares in S.F. No. 163 (P) in Kavalagudi Village, Srimushnam Taluk, Cuddalore District, Tamil Nadu by The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Villupuram – For Environmental Clearance. (SIA/TN/MIN/413139/2023, dated 06.01.2023)

Earlier, the proposal was placed in 377<sup>th</sup> SEAC meeting held on 10.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted the following:

1. The project proponent, The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Villupuram has applied for Environmental Clearance for the sand quarry in Vellar river over an extent of 4.87.5Ha located at S.F.No.163 (P), Kavalagudi Village, Srimushnam Taluk, Cuddalore District.
2. The project/activity is covered under category “B2” of Item 1 (a) “Mining of Minerals Projects” of the schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 1 year. The approved mining plan is for the period of 1 years & production should not exceed 179511m<sup>3</sup> of Sand (Above TBL 130761m<sup>3</sup> (Sand in Shoal portion- Avg. height 2.682m) & below TBL 48750m<sup>3</sup> (sand below TBL- height 1m)). The depth of mining is 1.0 m below TBL.
4. In the Order dated: 27.03.2023 of Appeal Number 80 of 2022, the Hon'ble NGT, Southern Zone ordered/directed that

“It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under ‘B1 –Category’ which would require the public hearing, replenishment study and also the EIA Study.”

Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

Subsequently, the subject was placed in 624<sup>th</sup> authority meeting held on 31.05.2023.

  
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The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 10.05.2023.

Now, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.


Agenda No: 389 - 21.

(File No: 10029/2023)

Proposed Sand Quarry in Manimuktharu River over an extent of 4.95.0Ha located at S.F.No.1 (P) in Katchiperumalnatham & S.F.No.420(P) Chinnaparur Village, Virudhachalam Taluk and Cuddalore District by Tamil Nadu by The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Villupuram- For Environmental Clearance. (SIA/TN/MIN/412647/2023, dt:06.01.2023)

The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Villupuram has applied for Environmental Clearance for the Sand Quarry in Manimuktharu River over an extent of 4.95.0Ha located at S.F.No.1 (P) in Katchiperumalnatham & S.F.No.420(P) Chinnaparur Village, Virudhachalam Taluk and Cuddalore District.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 1 year. The approved mining plan is for the period of 1 years & production should not exceed 80166 m<sup>3</sup> of Sand (Above TBL 30616m<sup>3</sup> (Sand in Shoal portion- Avg. height 0.618 m) & below TBL 49500 m<sup>3</sup> (sand below TBL- height 1m)). The depth of mining is 1.0 m below TBL.
4. In the Order dated: 27.03.2023 of Appeal Number 80 of 2022, the Hon'ble NGT, Southern Zone ordered/directed that

  
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“It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under ‘B1 –Category’ which would require the public hearing, replenishment study and also the EIA Study.”

Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.”

Now, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

Agenda No: 389-22

(File No: 3774/2015)

Proposed Black Granite (Dolerite) lease area over an extent of 3.43.5 Ha in S.F.No. 532/1A1, 528/1A & 527/1 at Puligunda Village, Bargur (Formerly Krishnagiri) Taluk, Krishnagiri District, Tamil Nadu by Tvl. Bannari Amman Sugars Limited- For Extension Environmental Clearance Amendment. (SIA/TN/MIN/215006/2021, dated: 12.06.2021)

The details of the project furnished by the proponent are available on the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)). The SEAC noted the following:

1. The Environmental Clearance was accorded to Tvl. Bannari Amman Sugars Limited, Black Granite (Dolerite) for mining/quarrying of Black granite over an extent of 3.43.5 hectare at S.F No. 532/1A1, 528/1A, & 527/1 Puligunta Village, Bargur (Formerly Krishnagiri) Taluk, Krishnagiri District for a period of five years vide Letter No. SEIAA-TN/F.No.3774/EC/1(a)/2428/2015 dated 19.11.2015 under B2 Category.
2. The amendment of Environmental Clearance was accorded to Tvl. Bannari Amman Sugars Limited, Black Granite (Dolerite) Lr. No. SEIAA-TN/F.No.3774/EC/1(a)/2428/Amend/2015 dt:09.09.2020 from approved quantity 2040 cu.m of Black Granite (Dolerite) to ROM quantity 40,760 cu.m

  
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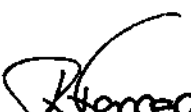
  
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(Recoverable Black Granite (Dolerite) – 2040cu.m & Granite Waste – 38740 cu.m).

3. Now, the proponent vide covering lr. Dt: 19.08.2021 receive in this office Dt: 21.08.2021 has informed that they would like to increase granite production (Expansion) from available mineable reserve ROM - 123220 Cu.m to proposed increased production of mineable reserve ROM - 6,65,249 cu.m but the PP has applied for EC under extension of validity instead of expansion due to non - availability of expansion option.
4. The subject was placed in 470<sup>th</sup> authority meeting Dt: 18.10.2021. The Authority decided to request the Member Secretary, SEIAA to forward this proposal to SEAC, since it is an expansion project as committed by the proponent, which needs to be appraised by SEAC.
5. Subsequently, the proposal was placed in this 261<sup>st</sup> SEAC Meeting held on 07.04.2022 and SEAC has decide to that the project proponent shall furnish documentary evidence from the concerned District Forest Officer showing the exact distance of location of the nearest Pulikonda R.F from the proposed quarry site.
6. The proposal was again placed in the 352<sup>nd</sup> SEAC meeting Dt: 08.02.2023 based on G.O. (Ms.) No. 243 industries, Investment promotion and Commerce (MMC.1) Department dated 14.12.2022. During the SEAC meeting, the proponent stated that he is entitled for an automatic extension as per the MoEF&CC notification dated 12.04.2022 and O.M dated 13.12.2022 and hence requested SEAC to confirm the same.

SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...

*"The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022*

  
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*shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above.”*

Based on the presentation made by the proponent, the SEAC decided to confirm that the proposal is entitled for 'automatic extension to the respective increased validity' as per the aforesaid OM issued by the MoEF & CC subject to the following commitment made by the PP.

As accepted by the Project Proponent the CER cost is Rs.30 lakhs and the amount shall be spent on the committed activities such as i) painting of entire school and plantation along the school Boundary to Thogarapalli Government Higher Secondary School, Krishnagiri before obtaining CTO from TNPCB.

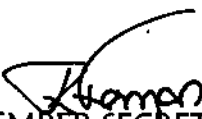
7. Subsequently, the proposal was placed in the 598<sup>th</sup> Authority meeting held on 01.03.2023. The Authority noted certain details as stated therein and the authority after detailed discussion decided that this expansion proposal shall be appraised by SEAC as fresh application after the receipt of certain additional particulars
  - i) Copy of 3<sup>rd</sup> scheme of mining plan approval letter from Dept of Geology & Mining.
  - ii) Copy of approved 3<sup>rd</sup> scheme of mining plan.
  - iii) Copy of valid certified compliance certificate (CCR).
  - iv) EMP including progressive mine closure plan for the life of mine.
8. Again, the proposal was placed in 615<sup>th</sup> SEIAA Meeting held on 08.05.2023 & 09.05.2023. The Authority noted that the PP has furnished reply vide its Lr. Dt: 04.05.2023 in regard to remarks & additional details sought in the 598<sup>th</sup> SEIAA meeting Dt: 01.03.2023. In view of the above, the Authority after detailed discussion decided to refer back the proposal to SEAC in view of request of PP vide Lr. Dt: 04.05.2023.
9. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006 as per MoEF&CC OM Dt:11.04.2022.
10. The Mining Lease was issued for the period of 20 Years (11.12.2006 to 10.12.2026) vide Lr. G.O. (3D) No.78 Industries (MME-2) Department

Dt:11.12.2006.

11. The approved 3rd scheme mining plan for the period of 5 Years vide Lr. No.506/MM4/2022 Dt: 14.03.2022 & production should not exceed ROM of 52341 cu.m [18319.35 cu.m of Black Granite (Recovery 35%) & 34021. 65 cu.m of Granite Waste (Reject 65%)]. The annual peak production is ROM of 11902.80 cu.m [4165.98 cu.m of Black Granite & 7736.82 Cu.m of Granite Waste]. The depth of mining upto 49m BGL.
12. Certified Compliance Report Dt: 22.04.2021 issued by IRO(SZ), MoEF&CC, Chennai.
13. Last transport permit issued by DD, Dept. of G&M vide Lr. No.506/2022/mines Dt:06.04.2021 for total quantity of 7143.65 Cu.m upto 18.09.2018.
14. The project proponent vide Lr. Dt: 04.05.2023 has requested for extension of environmental clearance for the production of 24456m<sup>3</sup> for the period of 3 Year out of 40,760m<sup>3</sup> for 5 Year as granted earlier by Lr No SEIAA A-TN/F No .3774/EC/1 (a) 2428/2015 dated 19.11.2015 and subsequently the extension applied vide online application Number SIA/TN/MIN/215006/2021 dated 12.06.2021.

The proposal was again placed in the 389<sup>th</sup> SEAC meeting held on 06.07.2023. Based on, The Committee carefully examined the reply given by the PP as also the presentation made and documents furnished and decided to reconfirm the recommendation for the grant of extension of Environmental Clearance already made in the 352<sup>nd</sup> SEAC meeting Dt: 08.02.2023 for an Annual peak production quantity of not exceeding 11902.80 cu.m of ROM with an ultimate depth of 49m with all the other conditions remaining unaltered, except the following.

- 1) As accepted by the Project Proponent the CER cost of Rs.5 lakhs and the amount shall be spent for the activities – (i) Renovation of Existing toilet and maintenance (ii) Providing Environmental Related books to the School library (iii) Carrying out about 150 Nos tree plantation in the school ground (iv) Contribute funds to the construction of Auditorium, in the Thogarapalli Government Higher Secondary School, Krishnagiri before the execution of lease.

  
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Agenda No. 389 -23.

File No.8863/2022

Proposed Lime stone quarry (Periyagalur Limestone Mine) lease over an extent of 4.98.5 Ha (3.725Ha in Patta land & 1.260 Ha in Poramboke land) in S.F Nos. Parts of 34, 34/1, 49, 50, 54, 54/26 & 54/27 of Periyagalur Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu by M/s. Ultra Tech Cement Limited – for Environmental Clearance. (SIA/TN/MIN/404200/2022 Dt:22.10.2022)

Earlier, the proposal was placed in 357<sup>th</sup> SEAC meeting held on 23.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The proposed quarry/activity is covered under Category “B1” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006.
2. The ToR was issued vide Lr No. SEIAA-TN/F.No.8863/SEAC/ToR-1123/2021 Dated:23.03.2022 to M/s. Ultra Tech Cement Limited, for the Proposed Lime stone quarry (Periyagalur Limestone Mine) lease over an extent of 4.98.5 Ha (3.725Ha in Patta land & 1.260 Ha in Poramboke land) in S.F Nos. Parts of 34, 34/1, 49, 50, 54, 54/26 & 54/27 of Periyagalur Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu.
3. Minutes of public hearing conducted on 25.08.2022.
4. Final EIA report submitted on 01.02.2023.
5. Now, the Project Proponent, M/s. Ultra Tech Cement Limited, has applied for Environmental Clearance with EIA report along with minutes of public hearing.
6. The lease valid period of 20 years vide G.O (3D) No. 94 TN Industries (MMA - 2) Department Dt:20.09.2005 & Lease deed executed on 03.03.2006.
7. Review of scheme of mining plan by IBM Dt: 0408.2021 for the period (2021 – 2026). The approved scheme of mining plan is for the period of five years & production should not exceed 169,679 m<sup>3</sup>of Lime Stone & 29943 m<sup>3</sup>of Reject and the annual peak production shall not exceed 1,46,711 m<sup>3</sup> of Lime Stone (2<sup>nd</sup> Year). The ultimate depth is 22m BGL.

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Sl. No	Details of the proposal	Data furnished
1.	Name of the Owner/Firm	M/s.Ultra Tech Cement Limited Reddipalayam Cement Works Reddipalayam Post Ariyalur District-621731
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough stone & gravel
3.	S.F No. Of the quarry site	Parts of 34, 34/1, 49, 50, 54, 54/26 & 54/27
4.	Village in which situated	Periyagalur
5.	Taluk in which situated	Ariyalur
6.	District in which situated	Ariyalur
7.	Extent of quarry (in ha.)	4.98.5 ha (3.725 ha in patta Land & 1.260 Ha in Poromboke land)
8.	Latitude & Longitude	11°07'51.16"N to 11°08'05.83"N 79°08'39.31"E To 79°08'49.65"E Topo sheet No. 58 M/4
9.	Period of quarrying proposed	5years
10.	Production (Quantity in m <sup>3</sup> )	1,69,679m <sup>3</sup> of Lime stone (not exceeding 146711 TPA)
11.	Proposed Depth of quarrying	22 m below ground level
12.	Method of Rock breaking	Non-conventional using rippers, rock breakers and No drilling & blasting involved.
13.	Water Table	35m-40m
14.	Precise area communication issued by Principal Secretary to	G.O.(3D). No.94 Dated: 20.09.2005 Industries (MMA-2) Department

	Government, Industrial Department with date	G.O.(Ms).No.75 Dated: 15.02.2021 Industries (MMA-2) Department
15.	Mining Plan approved by Assistant Director. C&M with date	Review of MP Letter TN/ALR/LST/ROMP-1658.MDS Dated: 04.08.2021 2021-22 to 2025- 26(valid till 31.03.2026)
16.	Project Cost including EMP	Rs.100.00 Lakh
17.	EMP cost	Capital – Rs.6.847 Lakhs Recurring (Operating) – Rs. 23.45 Lakhs/per Annum.
18.	CER cost	Rs. 11 Lakhs


Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the period of 5 Years and the ultimate depth of mining is up to 22m BGL and for the production of 1,69,679 Tonnes of Lime stone and however, the annual peak production shall not exceed 1,46,711 TPA of Lime stone subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions stated therein.

Subsequently, the proposal was placed in the 603<sup>rd</sup> Authority meeting held on 20.03.2023. The authority after detailed discussion decided to defer and to call for certain additional details stated therein.

In this connection, the PP has furnished its reply on 04.05.2023. In this regard, the proposal was again placed in the 617<sup>th</sup> Authority meeting held on 15.05.2023 and the authority after detailed discussion decided to refer back the proposal to SEAC for remarks and recommendation.

In this connection, the proposal was again placed for appraisal in 389<sup>th</sup> SEAC Meeting held on 06.07.2023. During presentation the PP has furnished reply as follows

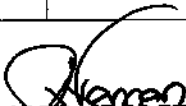
S.No.	Raised ADS	PP Reply
617 <sup>th</sup> Authority meeting held on 15.05.2023 -ADS RAISED BY SEIAA		
1.	The pp shall submit details of	This is an existing captive mine of UTCL.


  
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	existing trees (Tress planted earlier) and to furnish clarification why the same was not maintained.	Mining operations commenced on 18.08.2006. carried out till 15.10.2015 and after that stopped. As the mine is not in operation for the last 6.5 Years, green belt (of 200 trees) developed was destroyed/degraded with Prosopis sp. grown. within 300m radius area, 70% area falls in Ramco & Dalmia working Mining Leases. Activities in the Lease are restricted once temporary discontinuance declared.
2.	Blue print of 2500 trees to be planted within the proposed project site.	As directed, we have planted 1,634 Trees of native species over an extent 0.80Ha in the lease Area @ 2,043 Tree/Ha (16.06% coverage now) during 27.02.2023-01.03.2023 and submitted the evidences. On obtaining EC and commissioning the mining activities, we will plant another 2,066 trees in the existing area of 0.80Ha as well as proposed area of 0.60Ha in safety barriers. Thus, total Green Belt Area will be 1.477Ha with 3,700 Trees @ 2,500 Trees/Ha & Survival Rate of 90%.
3.	As per documents furnished and the KML file, the proposed area seems to be non-Contiguous with existing pits. Also, as per village map area between the proposed non-	PNR ML5 has 2 mining pits Viz. North pit of 1.989Ha and south pit of 1.341Ha approximately and are non-Contiguous. There was a seasonal water body (Pond) in SF.No.48 earlier and is non-Exitance now (Present status are shown in the

	<p>Contiguous mining area SF.No 46 was seen to be a waterbody. Hence, the pp shall furnish details on the above along with details of safety distance adopted for the said waterbody.</p>	<p>imagery &amp; Photographs appended). A safety barrier of 7.5m &amp; 10m for nearby nalla are provided and maintained as such.</p>
<p>4.</p>	<p>As per documents furnished, the pp has listed out many types of Flora &amp; Fauna within the study area. Hence, the pp shall furnish action plan to protect the Flora &amp; Fauna within the proposed mining area and the study area.</p>	<p>The flora reported in Core Zone Area (existing mine Pits with 7.5m &amp; 10 safety Barriers) are as reported in Table 3.25 of EIA Report. This Flora are in degraded stage with Prosopis sp. which will be removed fully and the natural eco system will be restored.</p> <p>The Buffer Zone is predominantly with Limestone Mines, barren lands and agricultural lands in patches. The nature of shrubs and trees in the study areas are of drought resistant types. Besides the natural vegetation, the agricultural and commercial crops are cultivated. The plant species recorded were as follows:</p> <p>Agricultural Crops: 5 Species  Commercial Crops including vegetables: 21 Species  Plantations: 6 Species  Natural Vegetations: 210 Species  Medicinal Plants: 25 Species</p> <p>Paddy, Sorghum, Black gram, Groundnut, etc. Were found to be cultivated among the agricultural crops. Sugarcane, Cotton, etc. were</p>

  
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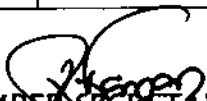
  
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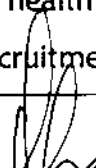
		<p>commercially cultivated. There will not be any impact on these Agricultural crops as well as natural vegetation in the Buffer Zone due to the ML5 Mining activities.</p> <p>Among the fauna recorded, most of them are common resident population in the study area.</p>
5.	The PP shall furnish detailed mine closure plan.	<p>Progressive Mine Closure Plan: As stated in Para 2.7 of EIA Report, no Top Soil or Over Burden waste is envisaged till the end of mining. Mineral Reject of 29,943 Tonnes will be generated during plan period (2021-22 to 2025-26). Out of which, about 26,079 Tonnes will be directly utilized for rectify the height of the worked-out benches in North &amp; South pits and remaining 3,865 Tonnes will be directly utilized for making roads and other allied activities. The proposal is also made for rehandling of existing waste dump (90x24x1m) during the 2<sup>nd</sup> Year (2022-23) and the quantity of 3,240 Tons will be utilized for rectifying the height of the worked out benches of South pit. Temporarily backfilled quantity of about 59,950 Tons OB in the North Pit will also be rehandled and utilized for rectifying the height of the worked-out benches.</p> <p>Progressive Mine Closure Plan is given as</p>

  
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		<p>Fig. 2.10 in the EIA Report.</p> <p>Mine Closure Plan: Area of excavation at the end of the life of the mine will be 3.508 Ha. up to max. 22m BGL, out of which about 2.243Ha will be left out as water reservoir and remaining 1.265Ha will be worked out benches. Worked out benches i.e., 1.265Ha will be reclaimed by afforestation/re-grassing (fig.2.11 in the EIA Report).</p>
6.	<p>The PP Shall furnish details of working safety, Community safety, during operation phase.</p>	<p>It shall be ensured that engaged personnel are aware of the Hazards involved and are trained in responding to the disasters. First Aid Kits and medical Supplies should be maintained at the Lease. all personnel shall use personal protective Equipment (PPEs) like safety shoes, Helmets, Safety glasses, etc. they should be trained in safety procedures to ensure that accidents and injuries are minimized. Government Hospitals in the vicinity will be used for any medicals Emergencies.</p> <p>Occupational Health Centre (with qualified Occupational Health Specialist) is functioning at the Factory with all required facilities. Occupational health surveillance programme is being carried out for all the employees periodically. The baseline data on the health status of workmen in the Pre-recruitment stage</p>

  
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		<p>was established. The same is being repeated periodically to update and to take action accordingly. Adequate care will be exercised to detect early incidences of occupational diseases for prompt treatment and cure. Safety aspects are also ensured to reduce incidents, if any.</p> <p>There is no human settlement within 300 m from the Lease Area. Periodical Medial &amp; Eye Camps are conducted by UTCL for the benefits of local community.</p>
7.	The PP shall furnish revised EMP capital cost & Recurring cost for the project life considering mitigation measures for process activity, solid waste, biological impact, occupational health & action plan to protect the Flora & Fauna, tree plantation & Mine closure plan and progressive mine closure plan.	EMP Budget has been updated as per SEAC Guidelines and submitted on 07.03.2023 as below covering all the aspects. The breakups are also appended.

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies given by the PP. After detailed discussion SEAC decided to re-confirm the recommendation already made 357<sup>th</sup> SEAC meeting held on 23.02.2023.

**Agenda No: 389 - 24**

(File No: 9712 /2023)

Proposed Rough Stone & Gravel Quarry lease over an extent of 3.38.0Ha S.F.No.384(P), 387/3 & 387/4, Amayapuram Village, Manapparai Taluk, Tiruchirappalli District by Thiru. T. Rengarasu - For Environmental Clearance. (SIA/TN/MIN/412562/2022, dt: 31.12.2022)

  
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The proposal was again placed in the 354<sup>th</sup> SEAC meeting Dt: 10.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. T. Rengarasu has applied for Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 3.38.0Ha S.F.No.384(P), 387/3 & 387/4, Amayapuram Village, Manapparai Taluk, Tiruchirappalli District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, the proposal vide online SIA/TN/MIN/236686/2021, dt: 31.10.2021 was placed in the 272<sup>nd</sup> Meeting of SEAC held on 13.05.2022 and noted that the noted that the Amayapuram Reserve Forest is located within a distance of 1 km from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, decided not to recommend the proposal. Subsequently, the proposal was placed in the 517<sup>th</sup> Authority meeting held on 06.06.2022.
4. As per G.O. (Ms.) No. 243 industries, Investment promotion and Commerce (MMC.1) Department dated 14.12.2022. Again, the project proponent, Thiru. T. Rengarasu has again applied for Environmental Clearance vide SIA/TN/MIN/412562/2022, dt: 31.12.2022 for the proposed Rough Stone & Gravel Quarry lease over an extent of 3.38.0Ha S.F.No.384(P), 387/3 & 387/4, Amayapuram Village, Manapparai Taluk, Tiruchirappalli District, Tamil Nadu.
5. Precise area communication period is 10 Years. The mining plan is for the period of 5 years & the production should not exceed 302860Cb.m of Rough Stone & 23288cb.m of Gravel. The annual peak production shall not exceed 66750 Cu.m of Rough Stone (5<sup>th</sup> Year) & 7872 Cu.m of Gravel (1<sup>st</sup> Year). The ultimate depth – 20m BGL.

Sl. No	Salient Features of the Proposal
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1.	Name of the Owner/Firm	:	Mr.T.Rengarasu, S/o.Mr.Thsnagsmsni, No.150, Modskudi, Mangathevanpatti, Kulathur Taluk, Pudukkottai – 622502 Tamil Nadu
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	:	Rough Stone & Gravel
3.	S.F Nos. of the quarry site with area break-up	:	384(P), 387/3 & 387/4
4.	Village in which situated	:	Amayapuram
5.	Taluk in which situated	:	Manapparai
6.	District in which situated	:	Tiruchirappalli
7.	Extent of quarry (in ha.)	:	3.38.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°37'17.16"N to 10°37'25.29"N 78°22'8.44"E to 78°22'16.09"E
9.	Topo Sheet No.	:	58 J/06
10.	Type of mining	:	Opencast Semi Mechanized of Mining
11.	Life of Project	:	10 years
	Lease Period	:	10 Years
	Mining Plan Period	:	5 Years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone in m <sup>3</sup>
		:	Gravel in m <sup>3</sup>
	Mineable Resources m <sup>3</sup> (RoM)	:	1450605
:		42704m <sup>3</sup>	
Mineable Resources m <sup>3</sup> (RoM)	:	Rough Stone	
	:	Gravel	
		:	484860 m <sup>3</sup>
		:	23288 m <sup>3</sup>

	Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Gravel
			66750 m <sup>3</sup>	7872 m <sup>3</sup>
	Ultimate Depth in meters	:	45m BGL	
13.	Depth of water table	:	55m-60m BGL	
14.	Man Power requirement per day:	:	29 Nos.	
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	5.8 KLD 0.300 KLD 2.0 KLD 2.0 KLD	
16.	Power requirement a. Domestic Purpose b. Industrial Purpose	:	TNEB	
17.	Precise area communication approved by the District Collector Department of G&M.	:	Rc.No.567/2021/Kanimam,	dt: 20.10.2021
18.	Mining Plan approved by Assistant Director Department of G&M.	:	Rc.No.567/2021/Mines dt: 25.10.2021	
19.	Department of G&M, Assistant Director 500m Cluster Letter	:	Rc.No.567/2021/Mines dt: 26.10.2021	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dt: 28.10.2021	
21.	Project Cost (excluding EMP cost)	:	Rs.31.75 Lakh	
22.	EC Recommendation	:	1st Five Years as per approved mining plan	
			Rough Stone	Gravel

		:	Max Total RoM in m <sup>3</sup>	302860 m <sup>3</sup>	23288 m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	66750 m <sup>3</sup>	7872 m <sup>3</sup>
		:	Max Depth in mtrs	45 m	
23.	EMP cost (in Rs. Lakh).	:	EMP Cost – Rs. 320.7 Lakhs/10Years including capital & recurring cost with 5% inflation cost anticipated every year.		
24.	CER cost (in Rs. Lakh).	:	Rs.8.0 Lakhs		

Subsequently, the above rule has been amended vide GO No. 243 Industries, Investment Promotion and Commerce (MMC.1) Department, dated 14.12.2022, as below.


*“In the said rules, in rule 36, in Sub-rule (1-A), in Clause(e) for the expression “the National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors and Reserve Forests”, the expression “National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors” shall be substituted”.*

Consequently, the proponent has re-presented/reapplied the proposal to reconsider the earlier decision based on the above G.O.

In view of the above, the proposal was again placed in the 354<sup>th</sup> SEAC meeting Dt: 10.02.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for additional particulars as follows

1. Details of approved layout/Structures/buildings, reservoir, Canal, High ways, Railway lines, Water Bodies, Reserve Forest, Village Road, Cart track, Stream Courses within /outside the radius of 50m, 100m, 150m,200m, 250m, & 300m of the proposed mining area.


Subsequently, the Proposal was placed in 600<sup>th</sup> SEIAA meeting held on 07.03.2023. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 10.02.2023.

  
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The proposal was again placed in 389<sup>th</sup> SEAC meeting held on 06.07.2023. Based on the presentation, documents furnished and the replies given by the PP, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 66750 Cu.m of Rough Stone & 7872 Cu.m of Gravel by restricting the ultimate depth of mining upto 45 m as per the approved mining plan and subject to the standard conditions given in the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall furnish the SoP indicating the mitigating measures for the Odai situated in adjacent to the proposed quarry site, at the time of of lease execution to the concerned AD (Mines).
- 3) Since few habitations and structures are situated within 400 m from the existing quarry, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 4) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3<sup>rd</sup> year or when the depth exceeds 30 m, whichever is earlier, by involving any one of the reputed Research and Academic Institutions

  
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- CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 5) The PP shall not cause any disturbances the natural flow of water in the odai situated at a distance of 120 m from the lease.
- 6) As accepted by the Project Proponent the CER cost of Rs. 8 Lakhs, out of which Rs. 4 Lakhs shall be spent to Government High School, Karumagoundanpatty Village and another Rs. 4 Lakhs shall be spent for the Government High School, Kulamangalam South Village as committed, before obtaining CTO from TNPCB.

**Agenda No: 389 - 25**

**(File No: 9824/2023)**

**Proposed sand quarry in Vellaru river over an extent of 4.48.0Ha at S.F.No.241/1 (P) & 242/1 (P), Vasistapuram Village, Kunnam Taluk, Perambalur District, TamilNadu by The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Tiruchirappalli – For Environmental Clearance. (SIA/TN/MIN/414167/2023, dated 14.01.2023)**

Earlier, the proposal was placed in this 361<sup>st</sup> Meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available on the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)). **The SEAC noted the following:**

1. The Project Proponent, The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Tiruchirappalli has applied for Environmental Clearance for the proposed sand quarry in Vellaru river over an extent of 4.48.0Ha at S.F.No.241/1 (P) & 242/1 (P), Vasistapuram Village, Kunnam Taluk, Perambalur District, TamilNadu.
2. The project/activity is covered under Category “B2” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006.
3. Production as per mining plan 64812m<sup>3</sup> of Sand for a period of 1 Year and up to depth of 1.0m.

  
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Based on the documents furnished and the presentation made by the proponent, the SEAC, after detailed deliberations, decided to make an on-spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC. Further, the PP shall furnish the following details during the site inspection.

1. The Project Proponent shall make a detailed study involving reputed Govt scientific institutions and furnish a report in detail on the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020.
2. Pillar stone shall be erected before the site inspection.
3. Details of existing mining activities carried out in 1 Km either upstream & downstream direction.
4. Previous history of mining operation in the same location.

On receipt of the Sub Committee report further deliberation will be done.

Subsequently, the subject was placed in 607<sup>th</sup> Authority meeting held on 03.04.2023. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent.

The proposal was again placed in 376<sup>th</sup> SEAC meeting held on 05.05.2023 and SEAC has decided to defer the proposal and to take up this proposal in any one of the ensuing SEAC meeting.

Subsequently, the subject was placed in 623<sup>rd</sup> authority meeting held on 30.05.2023. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 05.05.2023.

In the Meantime, the Sub-Committee of SEAC visited the project site on 20.03.2023 to collect the factual information and took photographs of the salient features of the site to get the first-hand information of the site. The Sub-Committee inspection report was placed in this 364<sup>th</sup> SEAC meeting held on 23.03.2023 and the observations of the Sub-committee were deliberated accordingly.

Now, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

  
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Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

**Agenda No: 389-26**

**(File No: 9825/2022)**

**Proposed Sand quarry lease over an extent of 3.90.0 Ha at S.F. No 134(P) in Chithathur Village, Gudiyatham Taluk, Vellore District, Tamil Nadu by The Executive Engineer, WRD/PWD, Chennai - For Environmental Clearance (SIA/TN/MIN/416871/2023, 03.02.2023).**

The proposal was placed in this 389<sup>th</sup> meeting of SEAC held on 06.07.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, The Executive Engineer has applied for Environmental Clearance for the Proposed Sand quarry lease over an extent of 3.90.0 Ha at S.F. No 134(P), Chithathur Village, Gudiyatham Taluk, Vellore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 1 year. The mining plan is for the period of one year & production should not exceed 49,250 m<sup>3</sup> (39,000 m<sup>3</sup> of Sand + 10,250 m<sup>3</sup> of Shoal). The ultimate depth is 1m below TBL.

Earlier, this proposal was placed in this 361<sup>st</sup> SEAC meeting held on 10.03.2023. Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub Committee constituted by SEAC to assess the present Environmental Condition. Further, the PP shall furnish the following details during the site inspection.

1. The Project Proponent shall make a detailed study involving reputed Govt scientific institutions and furnish a report in detail on the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020.
2. Pillar stone shall be erected before the site inspection.
3. Details of existing mining activities carried out in 1 Km either upstream & downstream direction.

  
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4. Previous history of mining operation in the same location.

On receipt of the Sub Committee report further deliberation will be done.


Subsequently, this proposal was placed in this 607<sup>th</sup> SEIAA meeting held on 03.04.2023. After detailed discussions, the Authority decided to obtain the following details in addition to the above.

- I. Based on the Replenishment study, the management plan for sustainable removal to be provided.
- II. The short term and long-term study along with the monitoring plan to be submitted.

Based on the Inspection Report, this proposal was placed in this 376<sup>th</sup> SEAC Meeting held on 05.05.2023. During the presentation, committee decided to defer the proposal and take up for appraisal in the ensuing meeting.

Now, the proposal was placed in this 389<sup>th</sup> SEAC meeting held on 06.07.2023. However, the project proponent has requested the SEAC to postpone the scheduled appraisal of the sand quarry proposal for a period of atleast 3-4 weeks due to administrative reasons.

Hence the SEAC has accepted the request made by the PP and decided to defer the aforesaid sand quarry proposal.

  
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## ANNEXURE-I

### SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED WITHIN 1 KM FROM THE RESERVE FORESTS

1. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two to three rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
2. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
3. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
4. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
5. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
6. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
7. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
8. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.

9. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
10. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
11. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
12. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more or areas with a high degree of erosion on forestland.
13. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco- sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
14. The PP shall not use plastic carry bags within the quarry area.
15. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.
16. The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.

  
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**I. GRAVEL / ORDINARY EARTH QUARRY – GENERAL CONDITIONS**

1. The proponent shall mandatorily appoint the statutory competent persons and commence the quarry operations within the purview of Mines Act 1952.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
5. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
6. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
7. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.

8. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
17. 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 informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
18. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
19. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
20. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
21. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory

obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

22. The mining lease holders 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.

23. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.

  
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## II. SILICA SAND / QUARTZ & FELDSPAR – GENERAL CONDITIONS

1. The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
2. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
3. The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
4. Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.
5. The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are undergoing the initial/periodical medical examination particularly free silica test in the DGMS approved OHS Clinics/Hospitals as per the guidelines spelt out in the DGMS Circular No. 01 of 2011 before they are engaged in mining activities. A copy of the report showing the medical examination of the persons employed shall be sent to the DEE/TNPCB, IR/MoEF & CC, Chennai and the DMS, DGMS-Chennai Region within 30 days from the day of medical examination.
6. Further, the PP shall ensure that the Medical Examination of Identified persons or Group of persons working at quarrying operations as well as in the processing areas prone to generate airborne dust should be conducted once in every six months and the health assessment for workers exposed to silica dust in the DGMS approved OHS Clinics/Hospitals which includes the following:
  - a. A history should be taken covering:

- i. The worker's occupational exposure to dust containing silica;
  - ii. Any past or present medical diagnosis of respiratory disease.
- b. A clinical examination should be carried out on the respiratory tract system.

A copy of the report showing the aforesaid medical examination of the persons employed shall be sent to the DEE/TNPCB, IR/MoEF & CC, Chennai and the DMS, DGMS-Chennai Region within 30 days from the day of medical examination.

7. The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
8. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
9. The proponent shall install the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
10. The Proponent shall submit a conceptual 'Slope Stability Action Plan' incorporating the benches & accessible haul road approved by the concerned AD (Mines) for the proposed quarry to the DEE/TNPCB at the time of obtaining the CTO.


  
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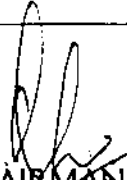
  
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11. The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are provided with adequate PPEs before engaged in mining operations.
12. The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
13. Proper barriers to reduce noise level and dust pollution should be established by providing grass greenbelt comprising of **three rows of plantations** adopting an incremental layer of plants with canopy along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
15. The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
16. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
17. Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
18. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
19. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.

20. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
21. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
22. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
23. The PP shall also ensure that the blasting operations are not carried out in the proposed quarry unless it was specified clearly in the Mining Plan approved by the competent authority and subsequently it was also permitted by the SEIAA based on the recommendation of the SEAC.
24. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.
25. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.

  
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26. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
27. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
28. The proponent shall ensure that the transportation of the quarried mineral shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried mineral; and transport of mineral will be as per IRC Guidelines with respect to complying with traffic congestion and density.
29. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
30. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
31. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
32. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity

of the quarrying area and in a manner to preserve the environment and ecology of the area.

33. 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 informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
34. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
35. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
36. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
37. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
38. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
39. The mining lease holders 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.

40. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.

  
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### III. ROUGH STONE/JELLY/BLUE METAL QUARRY

- 1) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 2) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 3) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 4) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall install the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular,

11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.

- 8) The Proponent shall submit a conceptual 'Slope Stability Action Plan' incorporating the benches & accessible haul road approved by the concerned AD (Mines) for the proposed quarry to the DEE/TNPCB at the time of obtaining the CTO.
- 9) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are undergoing the initial/periodical medical examination in the DGMS approved OHS Clinics/Hospitals as per the DGMS Circular No. 01 of 2011 before they are engaged in mining activities.
- 10) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are provided with adequate PPEs before engaged in mining operations.
- 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 12) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 16) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried

out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.

- 17) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 18) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 19) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 20) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
- 21) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 22) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the



houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.

23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.

24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.

25) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

26) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

27) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.

28) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.

29) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.

  
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- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) 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 informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 37) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise


area communication letter issued by concerned District Collector should be strictly followed.

38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

40) The mining lease holders 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.

41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

  
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#### IV- GRANITE QUARRY

1. The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
2. The proponent shall mandatorily appoint the statutory Mines Manager, Foreman, Mine Mate and the Mining Engineer / Geologist in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules, 1999 respectively before the execution of the lease.
3. Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.
4. The PP shall extract the dimensional stone blocks through non-explosive techniques only in case of any habitations / structures located within the core zone of 500 m such that the surrounding structures are not impacted.
5. The PP shall install the surface drains (Gallery drainage) around the boundary of the proposed quarry and all visible (or) identified tension cracks should be filled up to restrict the rain water entry through the slopes during the operational stage.
6. The PP shall furnish a Slope Stability Action Plan for the safe quarrying operation with incorporating the safety barrier / safety berm and benches / accessible haulroad to the concerned AD (Mines) during the time of lease execution.
4. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
5. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.

6. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of Granite, waste, over burden, side burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, dump management, dump mining, mineral transportation mode, ultimate depth of mining etc.) shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan has been modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
7. The Proponent shall ensure that the overburden, waste rock and non-saleable granite generated during prospecting or mining operations of the granite quarry shall be stored separately in properly formed dumps on grounds earmarked within the lease area only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS to maintain the stability of waste dumps. Such dumps shall be properly secured to prevent the escape of material in harmful quantities which may cause degradation of the surrounding land or silting of water courses.
8. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to the concerned DEE/TNPCB and IRO, MoEF & CC, Chennai once in six months.
9. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to the concerned DEE/TNPCB and IRO, MoEF & CC, Chennai once in six months.

10. As a part of EMP measure, the PP shall obtain the 'Star Rating' of the Granite quarry annually during the life of the project to assess their quarrying activities in order to protect the environment in view of sustainable environment from the Department of Mining Engineering, Anna University, Chennai. The copy of the 'Star Rating' certificate issued by Anna University Chennai shall be submitted to the concerned AD (Mines), the DEE/TNPCB and the SEIAA-TN.
11. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt (2 to 3 rows of thick plantation) along the boundary of the quarrying site considering the wind direction.
12. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
13. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper emplacement as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
14. **Noise and Vibration Related:** (i) The Proponent shall carry out only the Controlled Blasting operation using the detonating cord/fuse of low grammage PETN of 3.5gm/m to 5 gm/m only for the splitting of the granite blocks (or) using the Gun powder (or) using the safety fuse for the extraction of the granite blocks in the quarry. However, the proponent shall use NONEL based shock tube initiation system only while carrying out the controlled blasting operations for the excavation of overburden and side burden even though no habitations (or) forest exists around the proposed site.

15. The proponent shall not carry out any blasting operation involving the initiation system such as detonating cord safety fuse, ordinary detonators, cord relays, in the blasting operation carried out for the excavation of overburden and side burden.
16. In case of adoption of blasting operation in the proposed granite quarry, the mitigation measures for control of ground vibrations and to arrest fly rocks should be implemented meticulously under the supervision of statutory competent persons possessing the I / II Class Mines Manager / Foreman / Blaster certificate issued by the DGMS under MMR 1961, appointed in the quarry.
17. No secondary blasting of granite boulders shall be carried out in any occasions and only other suitable non-explosive techniques involving chemical agents shall be adopted if such secondary breakage is required.
18. The Project Proponent shall provide required number of the security sentries for guarding the danger zone of 500 m radius from the site of blasting to ensure that no human/animal is present within this danger zone and also no person is allowed to enter into (or) stay in the danger zone during the blasting. (ii) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
19. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry as assured in the Environmental Management Plan & the approved Mine Closure Plan.
20. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
21. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body

should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.

22. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
23. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
24. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
25. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
26. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
27. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the Granite Conservation and Development Rules 1999, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
28. 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 informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.

29. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.


30. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.


31. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.

32. 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).

33. The Project Proponent shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines (IBM) from time to time.

34. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

  
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35. The mining lease holders 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.

  
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**SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WIND MILLS**

Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m upto 500 m
1.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.
2.	Special precautions are to be taken during blasting within danger zone such as posting guards, etc.	Blast design parameters should be mentioned in mining plan/scheme. and may be reviewed by a competent mining engineer.
3.	Blast design parameters should be mentioned in mining plan/scheme.	MCPD and total charge should be fixed such that it should not exceed 1.3 kg and 26.50 kg respectively.
4.	The recommendations of scientific organisation need to be incorporated in the mining plan/scheme before its approval.	Fresh scientific study may be conducted if mine management wants to increase the MCPD and total explosive charge above the quantity of 1.30 kg and 26.50 kg respectively. Continuous monitoring using seismograph should also be done in such cases by the mine management.
5.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.
6.	Training of the blasting crew on controlled blasting practices before engaged in operation.	Training of the blasting crew on controlled blasting practices before engaged in operation.

  
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7.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, PESO or SPCB.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, SPCB. Report of recorded ground vibration need to be added in monthly report.
8.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.
9.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.
10.	Electronic (or) Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.	Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.
11.	Max. number of holes in a round: 30.	Max. number of holes in a round: 40 to 60.

  
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**Appendix - I**  
**List of Native Trees Suggested for Planting**

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	வில்வம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathu	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புள்ளை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	பூச மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjalllavu	கோங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நருவுளி
18	<i>Creteva adansonii</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உசா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உசா
21	<i>Diospyro sebum</i>	Karungali	கருங்காவி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூவாகை
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயிலி
27	<i>Lannea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுணா
38	<i>Phoenix sylvestre</i>	Eachai	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

40	<i>Premna mollissima</i>	Murnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumurnai	தறு முள்ளை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூங்க
43	<i>Prosopis cinerea</i>	Vanni maram	வள்ளி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேள்வாங்க
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபாலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கன் சோபுகாய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxdomic</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தன் கேட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்ட்ரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேள் மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சந்தன் வேம்பு
58	<i>Thespesia populnea</i>	Purvarasu	பூங்க
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பிலை
61	<i>Pithocellobium dulce</i>	Kodukkapuli	கொடுக்காப்பூளி

  
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Appendix –III  
Display Board  
(Size 6' x5' with Blue Background and White Letters)

-----சாரங்கம்

சாரங்கத்தில் குவாநி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/\_\_\_\_, தேதி\_\_\_\_, சுற்றுச்சூழல் அனுமதி \_\_\_\_\_ தேதி வரை செல்லத்தக்கதாக உள்ளது.

பகலம் பகுதி வளர்ச்சி செயல்பாடுக்கான அனுமதி திட்டம்	குவாநியின் எல்லைவளர் சுற்றி வேலி அமைக்க வேண்டும்
	அங்குலங்களின் ஆழம் தளமட்டத்திலிருந்து _____ மீட்டர்க்கு மிகாமல் இருக்க வேண்டும்
	சுற்றுநிலை மாசு ஏற்படாதவாறு அங்குல பணிகளை மேற்கொள்ள வேண்டும்.
நட்புபட்டு பராமரிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை.	வாகனங்கள் செல்லும் பாதையில் மாசு ஏற்படாத அளவிற்கு தண்ணீர் முறைப்பாக நன்னீர் வாரியலின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும்.
	இனடிச்சல் அமைப்பில் தூசி மாசுபட்டையும் குறைப்பதற்காக குவாநியின் எல்லைவளர் சுற்றி அடத்தியான பகலம் பகுதியை ஏற்படுத்த வேண்டும்.
	அங்குலத்தில் வெடி வைக்கும்பொழுது நிலத்திலிருந்து ஏற்படாதவாறும் மற்றும் சுற்றும் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உள்விடமாக செயல்படுத்தப்பட வேண்டும்.
	அங்குலத்தில் இருந்து ஏற்படும் இனடிச்சல் அளவு 85 டிசிபெல்ஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற் கொள்ள வேண்டும்.
	அங்குல சட்ட விதிகள் 1986 கீழ் அங்குலத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கைத்தரமுள்ள வழிப்பாதை வசதிகளை செய்ய தர வேண்டும்.
	கிராமம் அவ்வழி பஞ்சாயத்து வழியாக வாகனங்கள் செல்லும் சாலைவளர் தொடர்ந்து தங்கு பராமரிக்க வேண்டும்.
	அங்குலப்பணிகளால் அகலில் உள்ள விவசாயப் பணிகள் மற்றும் தீர்மானங்கள் பாதிக்கப்படக் கூடாது.
	நீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் நிலத்து நீர் தரத்தினை தொடர்ந்து கண்காணிக்க வேண்டும்.
	அங்குலத்திலிருந்து கனம் பொருட்களை எடுத்துச் செல்லு கிராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்பும் மற்றும் சுற்றுச்சூழல் பாதிக்காத வகையில் வாகனங்களை இயக்க வேண்டும்.
	அங்குலப்பணிகள் முடிக்கப்பட்டவுடன் அங்குல மட்டத்தில் உள்ளவாறு அங்குலத்தினை மூட வேண்டும்.
	அங்குல நடவடிக்கைகளை முடித்தபின்னர் அங்குல பகுதி மற்றும் அங்குல நடவடிக்கைகளை இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்ய தரவளங்கள் விவங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகலம் பகுதியை உருவாக்க வேண்டும்.
	முழுமையான நிபந்தனைகளை அறிய பாதிவேஷ ( <a href="http://parivash.nic.in">http://parivash.nic.in</a> ) என்கிற இணையதளத்தைப் பார்க்கப்படும் மேலும் எந்தவித சுற்றுச்சூழல் சார்ந்த புகார்களுக்கு சென்சைடில் உள்ள சுற்றுச்சூழல் மற்றும் வள அமைச்சகத்தின் ஒருங்கிணைந்த வட்டிய அலுவலகம்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாசு கட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுச்சூழல் பொறிபாளர் அலுவலகம்.

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