

## State Expert Appraisal Committee (SEAC)

Minutes of 429<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 13.12.2023 (Wednesday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building and Construction projects and Mining projects.

### Confirmation of Earlier Minutes

The minutes of the 428<sup>th</sup> SEAC meeting held on 08.12.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 429- 01

(File No.10306/2023)

Proposed Rough Stone Quarry lease area over an extent of 1.64.0 Ha (Patta Land) at S.F Nos. 1254/7, 1276/1, 1276/2A, 1276/2B, 1276/3A, 1276/3B & 1277/2 of Katchaikatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu by Thiru. N. Viswanathan - For Terms Reference. (SIA/TN/MIN/439420/2023, dated: 06.08.2023).

The proposal was placed for appraisal in the 429<sup>th</sup> Meeting of SEAC held on 13.12.2023. 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, **Thiru. N. Viswanathan** has applied for Terms Reference for the Proposed Rough Stone Quarry lease area over an extent of 1.64.0 Ha (Patta Land) at S.F Nos. 1254/7, 1276/1, 1276/2A, 1276/2B, 1276/3A, 1276/3B & 1277/2 of Katchaikatti Village, Vadipatti Taluk, Madurai 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.

Based on the presentation made and documents submitted and from the KML file uploaded in the PARIVESH Portal, SEAC decided to direct the PP to furnish the following additional details.

  
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1. Habitations/Structures are situated within 300m radius from the proposed project site.
2. From the KML file, it is ascertained that agricultural activities are being carried out extensively surrounding the proposed project mine lease area. The EIA coordinator shall furnish the agricultural activities around one km radius of the proposed site.
3. From the KML file, it has been observed that mining is being carried out outside the lease area results in unlawful & unsystematic mining operations. The EIA coordinator shall examine and furnish the extend of illegal mining.
4. Details of quarries and crusher operating near the proposed project area.

On receipt of the above details, the SEAC would further deliberate on this project and decide the further course of action. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

**Agenda No: 429- 02**

**(File No.10460/2023)**

**Existing Multi Colour Granite Quarry lease area over an extent of 1.57.5Ha (Patta Land) at S.F Nos. 549/3B (Part), 549/3C(Part), 551/1, 551/2(Part) and 551/3(Part) of Sithalavai Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by Thiru. A. Irulappan - For Environmental Clearance (SIA/TN/MIN/430983/2023, dated:26.05.2023).**

The proposal was placed for appraisal in the 429<sup>th</sup> Meeting of SEAC held on 13.12.2023. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

**The SEAC noted the following:**

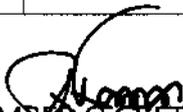
1. The project proponent, **Thiru. A. Irulappan** has applied for Environmental Clearance for the Existing Multi Colour Granite Quarry lease area over an extent of 1.57.5Ha (Patta Land) at S.F Nos. 549/3B (Part), 549/3C(Part), 551/1, 551/2(Part) and 551/3(Part) of Sithalavai Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu.

  
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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. Earlier, EC was accorded to the project proponent by DEIAA vide Lr.No.DEIAA/DIA/TN/MIN/11994/2017-KRR/EC.No.92/2017/Mines dated. 18.01.2018 for a period of 5 years from the date of execution of mining lease. EC was accorded for the quantity of 11,726m<sup>3</sup> of multi-coloured granite up to a depth of 7m below ground level.
4. Now, based on MoEF&CC O.M dated.24.04.2023, the proponent has submitted the application at SEIAA-TN for re-appraisal of EC granted by DEIAA.
5. The proponent has furnished a Certified Compliance Report obtained from IRO of MoEFCC, Chennai vide F.No.EP/12.1/2022-23/SEIAA/238/TN/109 dated.19.01.2023 for the DEIAA EC dated.18.01.2018.
6. The salient features of the proposal are as follows:

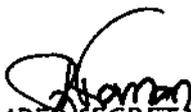
File No	10460/2023	Category	B2
	430983/2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. A. Irulappan, S/o. Ananthan, No.2/135, Mallakottai Village and Post, Thirupathur Taluk, Sivagangai District – 630 566.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone )	:	Multi Colour Granite Quarry
3.	S.F Nos. of the quarry site	:	549/3B(Part), 549/3C(Part), 551/1, 551/2(Part) and 551/3(Part)
4.	Village in which situated	:	Sithalavai
5.	Taluk in which situated	:	Krishnarayapuram
6.	District in which situated	:	Karur

  
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7.	Extent of quarry (in ha.)	:	1.57.5 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10° 51' 35.0034"N to 10° 51' 40.1626"N 78°12'18.5468"E to 78°12'27.4483"E
9.	Topo Sheet No.	:	58-J/01
10.	Type of mining	:	Open cast Semi-Mechanized Method.
11.	Life of Project	:	11 years
	Lease Period	:	20 years (2018-2038)
	Mining Plan Period	:	20 years. However, the Tentative Production and Development Five year Plan has been approved vide Scheme of Mining for the year - 2023-2028 under the relevant Mining law.
12.	Mining Plan Details	:	<b>As per approved Mining Plan</b> <b>As modified by SEAC</b>
	Geological Resources m <sup>3</sup> (RoM)	:	ROM - 2,00,010m <sup>3</sup> which includes Granite recovery (@30%) - 60,003m <sup>3</sup> & granite waste - 1,40,007m <sup>3</sup>
	Mineable Resources m <sup>3</sup> (RoM)	:	ROM - 66,468m <sup>3</sup> which includes Granite recovery (@30%) - 19,940m <sup>3</sup> & granite waste - 46,528m <sup>3</sup>

  
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	Annual Peak Production in m <sup>3</sup>	:	ROM - 5,865m <sup>3</sup> which includes Granite recovery (@30%) - 1760m <sup>3</sup> & granite waste - 4105m <sup>3</sup>	-
	Ultimate Depth in meters	:	27m BGL	-
13.	Depth of water table	:	64m below ground level	
14.	Man Power requirement per day:	:	30 Nos.	
15.	Water requirement: 1. Drinking & Domestic 2. Dust suppression 3. Green belt	:	2.5KLD 0.7 KLD 0.8 KLD 1.0 KLD	
16.	Power requirement	:	46,624 liters of HSD	
17.	Lease Sanctioned by the Additional Chief Secretary to Government, Industries Dept.	:	G.O.(3D). No.4, Industries (MMB.2) Department dated:05.02.2018.	
18.	Scheme of Mining Plan approved by the Commissioner, Dept. of Geology & Mining.	:	Rc.No.6385/MM2/2022, Dated:02.11.2022.	
19.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	:	Rc.No.454/Mines/2022, Dated:22.05.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: :26.05.2023.	

  
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21.	Project Cost (excluding EMP cost)	:	Rs.2,29,06,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m <sup>3</sup>	RoM – 29,140m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	ROM - 5,865m <sup>3</sup>
		:	Ultimate Depth in mtrs	27m BGL
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 29,14,250/- Recurring Cost – Rs. 11,31,700/-	
24.	CER cost (in Rs. Lakhs).	:	Rs. 5,00,000 /-	

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 annual peak production capacity of not exceeding ROM - 5,865m<sup>3</sup> by maintaining the ultimate depth of mining upto 27m BGL and 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:

- 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 proponent shall furnish an affidavit in Tamil Language stating that he will complete the appropriate measures to fulfil the non-compliances mentioned in the CCR dated.19.01.2023 obtained for the EC dated. 18.01.2018 before the execution of the lease.

  
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- 3) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The PP shall furnish a SOP indicating the safe environment while operating the Diamond Wire Saw cutting in the proposed quarry at the time of lease execution.
- 5) The PP shall **annually** carry out an Occupational Health Survey (OHS) in accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations (NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6) 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 5<sup>th</sup> year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - 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.
- 7) The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 8) As accepted by the Project Proponent the CER cost is **Rs. 5 Lakhs** and the amount shall be spent towards Government Higher Secondary School, Porani, Karur

  
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District for the activities as committed before obtaining CTO from TNPCB.

**Agenda No: 429- 03**

**(File No.10467/2023)**

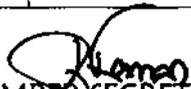
**Proposed Rough Stone and Gravel Quarry lease area over an extent of 1.47.0 Ha (Patta Land) at S.F No. 896/2 (Part) of Thennilai East Village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru. R. Vinoth - For Environmental Clearance. (SIA/TN/MIN/447352/2023, dated:07.10.2023).**

The proposal was placed for appraisal in the 429<sup>th</sup> Meeting of SEAC held on 13.12.2023. 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, **Thiru. R. Vinoth** has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry lease area over an extent of 1.47.0Ha (Patta Land) at S.F.No. 896/2 (part) of Thennilai East Village, Pugalur Taluk, Karur 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	10467/2023	Category	B2
	447352/2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. R. Vinoth, S/o. Ramalingam, Door No.132, Kattu Munnur, Pugalur Taluk, Karur District – 639 111.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone and Gravel Quarry
3.	S.F Nos. of the quarry site	:	896/2 (Part)

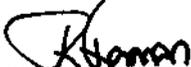
  
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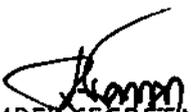

4.	Village in which situated	:	Thennilai East
5.	Taluk in which situated	:	Pugalur
6.	District in which situated	:	Karur
7.	Extent of quarry (In ha.)	:	1.47.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°57'57.78"N to 10°58'2.15"N 77°52'21.97"E to 77°52'26.66"E
9.	Topo Sheet No.	:	58-F/13
10.	Type of mining	:	Opencast Semi-Mechanized Mining
11.	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	<b>As per approved Mining Plan</b> <b>As modified by SEAC</b>
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone - 6,31,670m <sup>3</sup> -
		:	Gravel - 29,380m <sup>3</sup> -
	Mirable Resources m <sup>3</sup> (RoM)	:	Rough Stone - 2,03,210m <sup>3</sup> -
		:	Gravel - 22,540m <sup>3</sup> -
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone - 39,340m <sup>3</sup> -
:		Gravel - 8820m <sup>3</sup> -	
	Maximum Depth in meters	:	35BGL      -
13.	Depth of water table	:	65 -70m
14.	Man Power requirement per day:	:	14 Nos.
15.	Water requirement:	:	5.0KLD
	1. Drinking & Domestic	:	2.0KLD
	2. Dust suppression	:	1.5KLD
	3. Green belt	:	1.5 KLD

  
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16.	Power requirement	:	1,58,768 liters of HSD	
17.	Precise area communication approved by the Deputy Director, Dept. of G&M	:	Rc.No.237/Mines/2023, Dated:11.09.2023.	
18.	Mining Plan approved by Deputy Director, Dept. of G&M	:	Rc.No.237/Mines/2023, Dated:22.09.2023.	
19.	500m cluster letter issued by the Deputy Director, Dept. of G&M	:	Rc.No.237/Mines/2023, Dated:22.09.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: :12.07.2023.	
21.	Project Cost (excluding EMP cost)	:	Rs. 48,75,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM	Rough Stone – 1,93,760m <sup>3</sup> & Gravel – 22,540m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	Rough Stone – 39,340m <sup>3</sup> & Gravel – 8820m <sup>3</sup>
		:	Ultimate Depth in mtrs	35m BGL
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 35.21 Lakhs/- Recurring Cost – Rs. 16.41 Lakhs /-	
24.	CER cost (in Rs. Lakhs).	:	Rs. 10,00,000 /-	

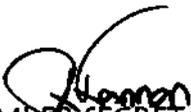
  
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 39,340m<sup>3</sup> of Rough stone & 8820m<sup>3</sup> of gravel by restricting the ultimate depth of mining up to 35m below ground level and 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:

- 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) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 3) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 5) **Since the structures and highway/village roads are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months** from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central

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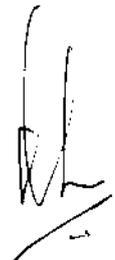
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Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM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

- 6) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 7) The PP shall ensure that the transportation of minerals shall not be carried out through the village road passing near the school premises.
- 8) The PP shall appoint a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 before executing the lease and a copy of such appointment shall be sent to the DMS/Chennai Region atleast 30 days before the commencement of the mining operations without fail.
- 9) The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 10) Considering the village/highway roads are located within 300m from the lease boundary, the PP shall carry out the small scale blasting involving 30 to 40 holes in a round at a time with keeping the total aggregate explosive charge/round is limited to 2 kg only in accordance with the provisions of MMR 1961.
- 11) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at either side of the National Highway (NH-67) & Village road (@distance of 500 m) by ensuring that no vehicles are allowed to pass through the road and all persons within such area have taken proper shelter during the blasting.

  
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- 12) The PP shall install a Notice Board at either side of the National Highway & Village road (exists within 500 m), at a distance of 500 m indicating 'BLASTING DANGER ZONE' sign & timing of blast before obtaining the CTO from the DEE/TNPCB.
- 13) 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 4<sup>th</sup> year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - 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.
- 14) As accepted by the Project Proponent the CER cost is **Rs. 10 Lakhs** and the amount shall be spent towards Government Higher Secondary School, Thennilai Village for the activities as committed before obtaining CTO from TNPCB.

**Agenda No: 429- 04**

**(File No.10474/2023)**

**Proposed Rough Stone Quarry lease area over an extent of 1.67.0 Ha (Patta Land) at S.F No. 781 of Anjehalli Village, Pennagaram Taluk, Dharmapuri District, Tamil Nadu by Tmt. Rathna - For Environmental Clearance. (SIA/TN/MIN/445832/2023, dated:26.09.2023).**

The proposal was placed for appraisal in the 429<sup>th</sup> Meeting of SEAC held on 13.12.2023. 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, **Thiru. A. Rathna** has applied for Environmental Clearance for the Proposed Rough Stone Quarry lease area over an extent of 1.67.0Ha at S.F No. 781 of Anjehalli Village, Pennagaram Taluk, Dharmapuri District, Tamil

  
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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. Earlier, EC was accorded to the project proponent by DEIAA vide Lr.No.10/DEIAA-DPI/EC.No.10/2018 dated. 31.10.2018 for a period of 5 years from the date of execution of mining lease. EC was accorded for the quantity of 1,20,971m<sup>3</sup> of rough stone up to a depth of 32m.
4. Now, based on MoEF&CC O.M dated.24.04.2023, the proponent has submitted the application at SEIAA-TN for re-appraisal of EC granted by DEIAA.
5. As per the KML file submitted by the proponent in Parivesh portal, it is ascertained that the proposed site is approximately at a distance of 5Km from Cauvery Wildlife Sanctuary.

During the meeting, the Committee noted that the proponent/consultant vide mail dated.12.12.2023 has informed that,

*"The lessee obtained Environmental Clearance from DEIAA on 31/10/2018. The lease period granted for 5 years is only mentioned in the precise area communication letter attached in the approved mining plan submitted in PARIVESH Portal. The lease period ends on 23/04/2024 and the EC is Valid up to the lease period as per the OM in EIA issued on 3<sup>rd</sup> November 2023 and the quantity also exhausted in the mine. So, the PP would like to withdraw the proposal. Please kindly accept the withdrawal request".*

The Committee noted that all ECs obtained from DEIAA vide letter requires re-appraisal as per MoEF&CC O.M dated.24.04.2023 and hence decided that the proponent's withdrawal request cannot be accepted now.

Hence, the proponent/consultant is directed to make the presentation before the Committee for re-appraisal. In view of the above, the Committee decided to defer the proposal in this meeting.

**Agenda No: 429- 05**

**(File No: 10454/2023)**

**Proposed Rough Stone quarry lease over an extent of 1.03.0 Ha in S. F. Nos. 1840/G,**

  
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1840/1J, 1840/1K, 1840/1L, 1840/2A, 1840/2B, 1840/2C and 1840/2G of Timmarasanaickanur Bit-II Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru.K. Jeganathan - For Environmental Clearance. (SIA/TN/MIN/432760/2023, Dated 09.06.2023).

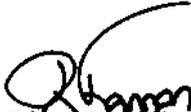
Earlier the proposal with file no. 8913 was placed in 278<sup>th</sup> Meeting of SEAC held on 27.05.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru.K.Jeganathan has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 1.03.0 Ha in S. F. Nos. 1840/1G, 1840/1J, 1840/1K, 1840/1L, 1840/2A, 1840/2B, 1840/2C and 1840/2G of Timmarasanaickanur Bit-II Village, Andipatti Taluk, Theni 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 mining plan, the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 52,639m<sup>3</sup>. of Rough Stone. The annual peak production 11170m<sup>3</sup> of Rough Stone (5<sup>th</sup> year). The ultimate depth – 26m BGL.

Based on the presentation and documents furnished by the project proponent, SEAC noted that the SMTR (Srivilliputhur Megamalai Tiger Reserve) is located within 10 KM from the project site. The ESZ for the Reserve is yet to be notified. The Committee, therefore, decided to **not recommend** the proposal.

Now, the PP has applied new application no.10454 stating that, as per the MOEF & CC final notification for Megamalai Wildlife Sanctuary vide S.O.3651 (E) dated 10.10.2019, from the proposed quarry site, the Megamalai Wildlife Sanctuary is located at the distance of 8.75 km (S) and the Eco- Sensitive Zone of Megamalai Wildlife Sanctuary is located at a distance of 1.7 km. Since, there is no final notification for SMTR (Srivilliputhur Megamalai Tiger Reserve), the Eco- Sensitive Zone of Megamalai Wildlife

  
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Sanctuary is applicable for SMTR (Srivilliputhur Megamalai Tiger Reserve). Considering this, our proposed quarry site is located outside the Eco-Sensitive Zone of SMTR.

Now the proposal was placed in 429<sup>th</sup> SEAC meeting held on 13.12.2023. 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.

**Agenda No: 429-06**

**(File No: 10468/2023)**

**Proposed Rough stone & Gravel quarry lease over an extent of 2.76.50Ha at SF.Nos. 2/1B(P), 2/1C(P), 2/3(P), 3/2(P), 17/1(P), 17/2, 17/3(P) & 18/2(P) of Sarkar Nattamangalam Village, Namakkal Taluk, Namakkal District, Tamil Nadu by Thiru.R.Prakasam - For Environmental Clearance. (SIA/TN/MIN/447218/2023, Dated:06.10.2023)**

The proposal was placed in 429<sup>th</sup> meeting of SEAC held on 13.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

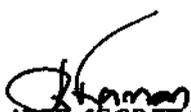
1. The Project Proponent, Thiru.R.Prakasam has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 2.76.50Ha at SF.Nos. 2/1B(P), 2/1C(P), 2/3(P), 3/2(P), 17/1(P), 17/2, 17/3(P) & 18/2(P) of Sarkar Nattamangalam Village, Namakkal Taluk, Namakkal District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and details furnished by the project proponent, **SEAC decided to defer and call for additional particulars as follows,**

1. From the kml file, it is observed that the northern portion of the quarry has been extensively mined out by the PP. Hence the PP shall furnish a report from the concerned Authority indicating the legality of the aforesaid mined out portion.

**Agenda No: 429-07**

**(File No: 7055/2019)**

  
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Proposed Rough stone quarry lease over an extent of 1.52.0 Ha in SF. No. 293/2 (Part-IV) of Suriyanagaram Village, Tiruttani Taluk, Tiruvallur District, Tamil Nadu by Thiru.A.Ravi – For Amendment in Environmental Clearance.  
(SIA/TN/MIN/306085/2023, Dated: 27.10.2023).

The SEAC noted the following:

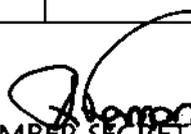
1. Earlier, the PP has obtained Environmental Clearance from SEIAA-TN for quarrying Rough Stone vide Lr. No. SEIAA-TN/F.No. 7055/ EC. No. 4481/2020 dated: 12.01.2021.
2. Now the PP has applied for Amendment in EC for change in EC quantity and Latitude, Longitude.
3. The PP has obtained letter from AD, Mines for corrected Latitude, Longitude vide Na.Ka.No.75/2018/kanimam.2 dated 18.10.2023.

The proposal was placed in the 672<sup>nd</sup> Authority meeting held on 14.11.2023. The authority noted that the proponent has applied for Amendment in EC issued vide Lr.No.SEIAA-TN/F.No.7055/EC.No.4481//2020 dated 12.01.2021. The PP has requested for change in EC quantity and Latitude, Longitude. The Authority noted that the EC was issued for quantity of 53,77,775m<sup>3</sup> against the approved quantity of 3,77,775m<sup>3</sup> of Rough stone. Hence the Authority decided that, MS may call for an explanation from the concerned Engineer.

Also, since there is change in Latitude and Longitude, the Authority after detailed deliberation decided to forward the proponent's request to SEAC as it fulfills the requirements of the provisions laid in the Tamil Nadu Minor Mineral Concession Rules, 1959 and also the lease has been executed by the competent authority for the area bearing the same Survey No and the values of Longitude & Latitude as indicated in the approved Mining Plan.

Now the proposal was placed in 429<sup>th</sup> SEAC meeting held on 13.12.2023.

S.No	Detail	Page No. in EC	Sl.No in EC	In Granted EC	Amendment requested

  
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1.	Latitude & Longitude	2	2	12°43'34" N to 12°43'42"N 79°33'23" E to 79°33'28"E	NE-13°12'33.32021", 79°33'27.69162" SE-13°12'33.89134", 79°33'32.96332"  SW-13°12'30.68926", 79°33'32.36945" NW-13°12'30.47431", 79°33'27.06014"
2.	Total Quantity of Rough Stone	3	8	<b>Validity:</b> This Environmental Clearance is granted for the production of 53,77,775 m <sup>3</sup> of Rough Stone for the period of 5 years from the date of execution of the mining lease.	<b>Validity:</b> This Environmental Clearance is granted for the production of 3,77,775 m <sup>3</sup> of Rough Stone for the period of 5 years from the date of execution of the mining lease.

Based on the presentation SEAC has recommended the above amendments to the Environmental Clearance as requested by the PP, subject to the condition that all the other conditions stipulated in EC vide Lr. No. SEIAA-TN/F.No. 7055/ EC. No. 4481/2020 dated: 12.01.2021 will remain unaltered.

**Agenda No: 429-08**

**(File No: 9562/2022)**

**Proposed Rough stone quarry lease over an extent of 1.56.5 Ha in SF. No. 252/3(Part) of T. Vengidapuram Village, Aravakurichi Taluk, Karur District, Tamil Nadu by Thiru. D. Elangovan - For Environmental Clearance. (SIA/TN/MIN/406363/2022, Dated: 14.11.2022).**

  
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Earlier the proposal was placed in 362<sup>nd</sup> SEAC meeting held on 13.03.2023. 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, Thiru.D.Elangovan has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 1.56.5Ha in SF. No. 252/3(Part) of T.Vengidapuram Village, Aravakurichi Taluk, karur 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.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 1,17,486m<sup>3</sup> of Rough stone with an ultimate depth of mining is 35m BGL. The annual peak production is 23696 m<sup>3</sup> of Rough Stone (1<sup>st</sup> year).

The proposal was placed in the 608<sup>th</sup> Authority meeting held on 05.04.2023 & 06.04.2023. The authority noted that this proposal was placed for appraisal in 362<sup>nd</sup> meeting of SEAC held on 13.03.2023 and SEAC decided that,

- (i) The PP shall furnish certified compliance report for the previous EC.
- (ii) The PP shall complete EC conditions like, fencing, tree plantation and garland drain and the video proof of the same shall be submitted.

In view of the above, the authority decided that the PP shall submit,

- (i) The impact of mining on biodiversity, agriculture and horticulture around the mining area, adjacent lands and land use.
- (ii) The impact on Ground water, surface water due to mining activity.
- (iii) The impact of mining on aquifer, hydrology.
- (iv) The impact of mining on "drawdown" effect.

**Now the proposal was placed in 429<sup>th</sup> SEAC meeting held on 13.12.2023.** The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

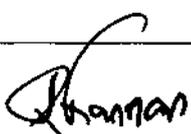
S.No	SEAC Query	Reply
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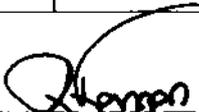

1.	The PP shall furnish certified compliance report for the previous EC.	Certified Compliance Report (CCR) submitted.
2.	The PP shall complete EC conditions like, fencing, tree plantation and garland drain and the video proof of the same shall be submitted.	Lease area extent is 1.56 Hectares. In previous EC the condition 44 & 45 says the lessee should plant 400 saplings/Ha and 10 neem trees should plant in the boundary of the lease area.
<b>S.No</b>	<b>SEIAA Query</b>	<b>Reply</b>
1.	The impact of mining on biodiversity, agriculture and horticulture around the mining area, adjacent lands and land use.	<p>Biodiversity that underpins economies, provides food, fuel, building materials and freshwater and helps to mitigate the impacts of climate change and natural disasters.</p> <p>The above said things never disturb for this proposed mining activity.</p> <p>The mine working is for 20 years or more which drastically stimulate the climate change. This is a B2 category mine and the sprawling area is less of 1.53Ha and the quantity of excavation is also minimum. The instruments, vehicles and fuels are in use is also minimum. Moreover the mitigations for carbon sequestration for this mining activity were done by the proponent by planting 750 saplings for the proposed extent around the lease area.</p> <p>No horticulture takes place around one kilometer from the lease area. In the south eastern side of</p>

  
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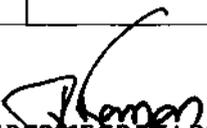
  
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		<p>the lease area the coconut trees (Plantation crop) farm around 3.50 acres exists.</p> <p>In between the coconut form and the lease area the proponent planted native species. The native species planted in 2016 by the proponent had grown well which will not affect the adjacent coconut farm. The remaining areas around the lease area is a manavari land and the Rabi crops shall cultivate in the season during November to January.</p>
2.	The impact on Ground water, surface water due to mining activity.	<p>No surface water bodies around 500m radius. Potentiometric surface map shows the ground water potential based on elevation profile of 1km radius had given in the figure. Northern side of the lease area have a groundwater potential in a depth of 49m and in the southeastern side the depth is in 45m. There is no water ingress or seepage in the mining up to a depth of 44m. The proposed mining depth is 35m below ground level.</p>
3.	The impact of mining on aquifer, hydrology.	<p>An aquifer is a body of rock and/or sediment that holds groundwater.</p> <p>There are two general types of aquifers: confined and unconfined. Confined aquifers have a layer of impenetrable rock or clay above them, while unconfined aquifers lie below a permeable layer of soil.</p> <p>Groundwater can seep into or out of aquifers due to their porous nature, it cannot move fast enough to flow like a river.</p>

  
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		<p>The rate at which groundwater moves through an aquifer varies depending on the rock's permeability. Permeability is a measure of how easily water can flow through a stone.</p> <p>The higher the permeability, the easier it is for water to flow through the stone.</p> <p>Gravel and clay have high permeability, while stone and concrete have low permeability.</p>
4.	The impact of mining on "drawdown" effect.	<p>Open-cast 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 flow regime depends on the type of conducting medium.</p> <p>In an unconsolidated sedimentary sequence where groundwater movement is through inter-granular pore-spaces, flow is essentially linear.</p> <p>On the other hand, in a rock sequence in which it is the secondary processes like fracturing and faulting that provide the conducting medium, flow is predominantly non-linear.</p> <p>In respect of drawdown, two different kinds of situations come across in an open-pit mine firstly, when the mine is working above the water table and secondly when the mine is working below the water table. Water (or drawdown) does not pose any problem in the former case, whereas in the latter case, lowering of water table may be the impact of mining.</p>

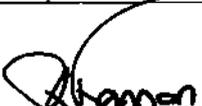
  
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	<p>The proponent quarry rough stone (Charnockite rock). The various physical properties of Charnockite are Hardness – 6 to 7 (1-3 are soft rocks, 3-6 are medium hardness rocks, 6-10 are hard rocks) in Moh's Hardness Scale. Grain Size - Coarse grained;</p> <p>The bulk density values ranged from 2.63 to 2.81 and the porosity from 0.03 to 0.16.</p> <p>In this mining the proposed depth is 35m below ground level and the groundwater table is found around 55m below ground level in the lease area.</p>
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<b>File No</b>	<b>9562/2022</b>	<b>Category</b>	<b>B2</b>
	<b>SIA/TN/MIN/406363/2022, Dated: 14.11.2022</b>		
<b>Sl. No</b>	<b>Salient Features of the Proposal</b>		
1.	Name of the Owner/Firm	Thiru. D. Elangovan S/o. Dhandapani, Door No.407, Government Hospital Opposite, T. Vengidapuram, Chinnadarapuram, Aravakurichi Taluk, Karur District - 639202	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	Rough stone quarry	
3.	S.F Nos. of the quarry site with area break-up	252/3 (Part)	

  
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4.	Village in which situated	:	T.Vengidapuram
5.	Taluk in which situated	:	Aravakurichi
6.	District in which situated	:	Karur
7.	Extent of quarry (in ha.)	:	1.56.5Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°51'57.98"N to 10°52'1.88"N 77°50'38.51"E to 77°50'43.55"E
9.	Topo Sheet No.	:	58-F/13
10.	Type of mining	:	Opencast Semi - Mechanized Mining
11.	Life of Project	:	5 Years
	Lease Period	:	5 Years
	Mining Plan Period	:	5 Years
12.	Mining Plan Details	:	<b>As per approved Mining Plan</b>
			<b>Rough stone</b> <b>Topsoil</b>
	Geological Resources m <sup>3</sup>	:	3,84,459m <sup>3</sup> 288m <sup>3</sup>
	Minable Resources m <sup>3</sup>	:	1,17,486m <sup>3</sup> 12m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	24,425m <sup>3</sup> 12m <sup>3</sup>
	Maximum Depth in meters	:	35m BGL
13.	Depth of water table	:	55m in rainy season – 60m in summer season
14.	Man Power requirement per day:	:	14 Employees
15.	Water requirement:	:	<b>4.0 KLD</b>
	1. Drinking water	:	2.5 KLD
	2. Dust suppression	:	1.0 KLD
	3. Green belt	:	0.5 KLD
16.	Power requirement	:	TNEB
		:	93984 litres of HSD Will be utilized for rough stone
17.	Precise area communication approved by the Deputy Director, Department of G&M.	:	Na.Ka.No.393/Kanimam/2021, Dated:29.07.2022



18.	Mining Plan approved by Deputy Director, Department of G&M.	:	Rc.No.393/Mines/2021, Dated:28.10.2022										
19.	500m Cluster Letter approved by the Deputy Director, Department of G&M.	:	Rc.No.393/Mines/2021, Dated:31.10.2022										
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:14.11.2022										
21.	Project Cost (excluding EMP cost)	:	Rs. 28,94,500/-										
22.	EC Recommendation	:	<table border="1"> <tr> <td>Validity</td> <td>30 years subject to the following upper limits.</td> </tr> <tr> <td></td> <td>Rough stone</td> </tr> <tr> <td>Max Total in m<sup>3</sup></td> <td>87,330m<sup>3</sup></td> </tr> <tr> <td>Annual Max in m<sup>3</sup></td> <td>20,770m<sup>3</sup></td> </tr> <tr> <td>Max Depth in mtrs</td> <td>35m BGL</td> </tr> </table>	Validity	30 years subject to the following upper limits.		Rough stone	Max Total in m <sup>3</sup>	87,330m <sup>3</sup>	Annual Max in m <sup>3</sup>	20,770m <sup>3</sup>	Max Depth in mtrs	35m BGL
Validity	30 years subject to the following upper limits.												
	Rough stone												
Max Total in m <sup>3</sup>	87,330m <sup>3</sup>												
Annual Max in m <sup>3</sup>	20,770m <sup>3</sup>												
Max Depth in mtrs	35m BGL												
23.	EMP cost (in Rs. Lakh).	:	Rs.108.92										
24.	CER cost (in Rs. Lakh).	:	Rs.7,00,000										

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 annual peak production capacity of not exceeding **20,770m<sup>3</sup> of Rough stone** by maintaining the ultimate depth of mining up to **35m BGL** and 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:

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

  
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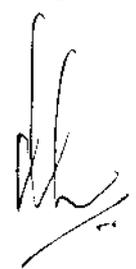
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- maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
  3. **Since the structures are situated within a radial distance of 500 m**, the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations after obtaining prior permission from the DMS/Chennai, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the 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. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
  5. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
  6. 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

  
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quarry walls within a period of one year from the commencement of mining operations for evaluating the slope stabilization & protective measures at the ultimate pit limits, by involving any one of the reputed Research and Academic Institutions - 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.

7. The PP shall carry out a comprehensive Bio-diversity study for the proposed quarry site within a period of six months from the commencement of mining operation by involving any scientific research / educational institute for quantifying the impacts of mining on water/soil/land and a copy of the report shall be sent to the IRO, MoEF & CC, Chennai.
8. As accepted by the Project Proponent the CER cost of **Rs. 7 Lakhs** and the amount shall be spent for the activities as committed towards Government Boys Higher Secondary School, Chinnatharapuram Village before obtaining CTO from TNPCB.

**Agenda No: 429-09**

**(File No: 9964/2023)**

**Proposed Rough Stone & Gravel quarry lease over an extent of 4.83.50 at SF.No. 270/13, 270/14A, 270/14B, 270/3, 271/1B(P), 271/1C, 271/1D, 271/1E, 271/2(P), 271/3(P), 271/4(P), 271/5, 271/6, 271/7, 272/1, 276/1A, 276/1B and 276/2 of Kattankulam Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by M/s. Sri Thaiyalnayagi Earth Movers Private Limited - for Environmental Clearance. (SIA/TN/MIN/424245/2023, Dated:03.04.2023)**

Earlier the proposal was placed in 387<sup>th</sup> meeting of SEAC held on 28.06.2023. The details of the minutes are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, M/s. Sri Thaiyalnayagi Earth Movers Private Limited has

  
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applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 4.83.50Ha at SF.No. 270/13, 270/14A, 270/14B, 270/3, 271/1B(P), 271/1C, 271/1D, 271/1E, 271/2(P), 271/3(P), 271/4(P), 271/5, 271/6, 271/7, 272/1, 276/1A, 276/1B and 276/2 of Kattankulam Village, Uthiramerur Taluk, Kancheepuram 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. The PP stated that the proposal is located at 4.35km north of Karikili Bird Sanctuary. It is located outside the Eco sensitive zone vide letter Ref. No. WL5/3767/2023 dated 15.02.2023 issued by PCCF and CWLW & Ref.No. WL5/17723/2022 dated 26.10.22 and as such NBWL is not applicable.

**The proposal was placed in the 649<sup>th</sup> Authority meeting held on 23.08.2023.**

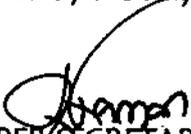
The Authority noted that this proposal was earlier placed for appraisal in 637<sup>th</sup> Authority meeting held on 11.07.2023 and noted that SEAC recommended the proposal for the grant of Environmental Clearance in 387<sup>th</sup> meeting of SEAC held on 28.06.2023 subject to the certain conditions. The Authority in its 637<sup>th</sup> meeting raised ADS. The PP has submitted reply for SEIAA ADS.

After detailed discussions, SEIAA observed that, this PP & EIA Coordinator have manipulated the records letter of AD mines which has given details of existing and proposed quarry. In the signed PPT presented before SEAC committee they have removed the details of the existing quarry, thereby falsifying records and data provided before the Committee and Authority and applied as "B2" category instead of "B1" category. This may please be examined and action may be initiated and suggested.

In view of these, the authority decided to refer back the proposal to SEAC for re-appraisal/ seeking clarifications on the above said points.

**The proposal was placed in 419<sup>th</sup> meeting of SEAC held on 01.11.2023.** The SEAC noted that the project proponent has not attended the meeting.

**Now the proposal was placed in 429<sup>th</sup> meeting of SEAC held on 13.12.2023.** The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEIAA.

  
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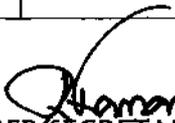
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S.No	ADS by SEIAA	Reply
1.	<p>After detailed discussions, SEIAA observed that, this PP &amp; EIA Co-ordinator have manipulated the records letter of AD mines which has given details of existing and proposed quarry. In the signed PPT presented before SEAC committee they have removed the details of the existing quarry, thereby falsifying records and data provided before the Committee and Authority and applied as "B2" category instead of "B1" category. This may please be examined and action may be initiated and suggested.</p>	<p>We humbly state that, no manipulated documents or falsifying records were submitted to SEIAA-TN. The submitted documents all are real and the facts are furnished below:</p> <ul style="list-style-type: none"> <li>• Initially AD Mines office has issued a letter vide Rc.No. 280/Q3/ 2022, Dated 14.02.2023 regarding the existing and proposed quarries wherein he had shown my proposed proposal and one more existing mines namely A. Kumar.</li> <li>• Based on my letter dated the same day, i.e., February 14, 2023, after a cross-check of the distance between the proposed quarry and the existing quarry, a revised letter has been issued by AD mines office with the same reference number and date excluding the existing quarry.</li> <li>• My EC proposal was submitted as B2 category project based on the revised AD mines letter since my proposal is beyond 500m from the existing mines.</li> <li>• I understand that in my EC application, though in text, presentation &amp; all the places the revised letter is highlighted, in the annexures of application, the old AD mines letter is annexed by mistake which has caused mismatches with respect to quarries</li> </ul>

  
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		<p>located within 500m radius and resulted in these confusions.</p> <ul style="list-style-type: none"><li>• I sincere apologise for the mistake and request the committee and authority to condone the same.</li><li>• I hereby categorically state that there is no manipulation of the letters as both the letters were issued by Assistant Director of Mines, Geology and Mining.</li><li>• Again I made a representation to the Assistant Director of Department of Geology and Mining wherein which the Assistant Director had categorically stated in his letter vide RC No: 280/q3/2022 dated 22.09.2023 that there was no quarry within a distance of 500 meters. Hence a confirmation letter was issued to us and the same is placed before the Authority/Committee.</li><li>• I have also obtained letter from Initially AD Mines survey and Land records department which clearly states that the present proposal is outside the 500m radius of the existing mines. (502m)</li><li>• Now I would also like to bring to the notice of the committee that the lease period of the existing quarry of A. Kumar which is abutting my proposal off course beyond 500m is up to 7.11.2023 only and the lease is expired.</li></ul>
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		<ul style="list-style-type: none"> <li>• I once again tender my sincere apologies for the confusion created and request the honorable committee to reiterate the earlier SEAC recommendation for EC for my project.</li> </ul>
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**The PP has obtained clarification letter from AD, Kancheepuram dated 22.09.2023 which states that,**

“Tvl. Sri. Thaiyalnayagi Earth Movers Private Limited has preferred an application for quarrying Roughstone/Gravel over an extent of 4.83.50 Hectares of patta land in F. Nos. 270/13, 270/14A, 270/148, 270/3, 271/18(P), 271/1C, 271/1D, 271/1E, 271/2(P), 271/3(P), 271/4(P), 271/5, 271/6, 271/7, 272/1, 276/1A, 276/18 and 276/2 in Kattankulam Village, Uthiramerur Taluk, Kancheepuram District.

Based on the recommendation of the Revenue Divisional Officer, Kancheepuram and Assistant Geologist, Department of Geology and Mining, Kancheepuram the area intended for quarrying is communicated to the applicant company vide this office memo RC.No.280/Q3/2022, dated 07.02.2023 and the details of the existing and proposed quarries situated within 500 meters radial distance from the proposed site was informed to the applicant vide this office letter dated 14.02.2023 including the quarry granted in favour of Thiru A.Kumar located in S.F.No277/288A, etc. Kattankulam and Vendivakkam village/ Uthiramerur taluk, Kancheepuram District.

Based on the request of the applicant company the existing quarry in the name of Thiru A.Kumar was verified with Google Maps and noticed that the said quarry was situated at a distance of 500.36 Metre from the proposed site. Hence, a revised letter was issued to the applicant vide this office letter RC.No.280/Q3/2022, dated 07.02.2023.

The Assistant Geologist of this office in his letter dated 15.09.2023 has informed that the said field was verified and there is no existing quarries situated within 500 metre radial distance from the proposed site of Tvl. Sri. Thaiyalnayagi Earth Movers Private Limited”.

  
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Based on the above clarification, SEAC decided to re-iterate its recommendations already made in 387<sup>th</sup> meeting of SEAC held on 28.06.2023. All other conditions mentioned in the minutes will remain unchanged.

**Agenda No: 429-10**

**(File No: 7833/2020)**

**Proposed rough stone and gravel quarry lease area over an extent of 2.03.0 Ha at S.F. No. 273/2A and 281/2 Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru. S.G. Aakash Arumugam (Legal Heir), S/o. Late. S.A. Ganesan (applicant) - For Environmental Clearance. (SIA/TN/MIN/56383/2020 Dt. 26.1.2022)**

The proposal was placed for appraisal in this 429<sup>th</sup> meeting of SEAC held on 13.12.2023. 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, Thiru. S.G. Aakash Arumugam (Legal Heir), S/o. Late. S.A. Ganesan (applicant) has applied for the Environmental Clearance for proposed rough stone and gravel quarry lease area over an extent of 2.03.0 Ha at S.F. No. 273/2A and 281/2 Pachapalayam Village, Sulur Taluk, Coimbatore 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 10 years. The production for 5 years not to exceed– 131419 m<sup>3</sup> of Rough stone and 6576 m<sup>3</sup> of gravel and 11452 m<sup>3</sup> of gravel dump. The Annual peak production as per mining plan is 32650 m<sup>3</sup> of Rough stone (1<sup>st</sup> year), 3840 m<sup>3</sup> of gravel (3<sup>rd</sup> year) and 11452 m<sup>3</sup> of gravel dump (1<sup>st</sup> year) with ultimate depth of 43m BGL.
4. The PP was issued with ToR vide Lr No. Lr.No. SEIAA-TN/F.No.7833/SEAC/ToR-828/2020 Dated:16.12.2020 with restricting the ultimate depth of the mining is restricted to 33m instead of 43m considering the hydro-geological regime of the surrounding area. Restricting the depth of mining to ultimate depth of 33m and quantity of 123669 m<sup>3</sup> of Rough stone & 6576 m<sup>3</sup> of Gravel for a

  
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- period of five years with a bench height of 5m as per the approved mining plan.
5. Earlier, the proposal was placed for appraisal in this 269<sup>th</sup> meeting of SEAC held on 5.5.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following details from the project proponent in respect of compliance of EC conditions for the earlier period.
- i) The PP shall construct the type of fence along the boundary limit of the mining leasehold area as per the Reg. 177 of MMR 1961, i.e., Wire ropes, barbed wire supported by permanent post-stands (iron or concrete), the gap between the adjacent members being not less than 0.30 m and the bottom-most member not more than 0.25 m and the top-most member not less than 1.00 m from the ground level.
  - ii) The PP shall furnish the photograph and video graph of fencing all along the periphery of the mining lease area and green belt.
6. On receipt of a reply from the proponent, the proposal was placed in this 429<sup>th</sup> SEAC meeting held on 13.12.2023.
7. The PP has submitted death certificate of applicant and legal heir certificate.
8. The PP has furnished the copy of AD Mines letter dated 02.11.2023 for transfer of application to the legal heir.
9. The salient features of the proposal are as follows:

File No	7833 / 2020	Category	BI / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru. S.G. Aakash Arumugam (Legal Heir), S/o. Late. S.A. Ganesan (applicant) No.12/4C, Arima Nagar, Kalangal Road, Sular, Coimbatore South – 641 402.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel

  
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3	S.F Nos. of the quarry site with area break-up	:	273/2A & 281/2			
4	Village in which situated	:	Pachapalayam			
5	Taluk in which situated	:	Sulur			
6	District in which situated	:	Coimbatore			
7	Extent of quarry (in ha.)	:	2.03.0 Ha			
8	Latitude & Longitude of all corners of the quarry site	:	10°54'17.95"N to 10°54'22.27"N 77°04'09.23"E to 77°04'20.36"E			
9	Topo Sheet No.	:	58-F/01			
10	Type of mining	:	Opencast Mechanized Mining			
11	Life of Project	:	5 years			
	Lease Period	:	5 years			
	Mining Plan Period	:	5 years			
12	Mining Plan Details	:	As per approved Mining Plan		As modified by SEAC	
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
			6,70,752m <sup>3</sup>	12,816 m <sup>3</sup>	-	-
	Mirable Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
			1,23,669 m <sup>3</sup>	6576 m <sup>3</sup>	-	-
Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Gravel	Rough Stone	Gravel	
		32,650 m <sup>3</sup>	3840 m <sup>3</sup>	-	-	
Ultimate Depth in meters	:	33m below ground level (3m Gravel + 30m Rough Stone)		-		

13	Depth of water table	:	60m-65m below ground level	
14	Man Power requirement per day:	:	21 Nos.	
15	Water requirement:		4.2 KLD	
	1. Drinking water		0.75 KLD	
	2. Utilized water	:	-	
	3. Dust suppression		2.7 KLD	
	4. Green belt		0.75 KLD	
16	Power requirement	:	1,06,236 Liters of HSD	
17	Precise area communication approved by District Collector	:	Na.Ka.No. 181/Kanimam/2019, dated: 19.10.2019	
18	Mining Plan approved by Assistant Director (i/c) / Joint Director, Department of G&M	:	Rc.No.181/Mines/2019, dated: 02.12.2019	
19	Department of G&M, Assistant Director (i/c) / Joint Director 500m Cluster Letter	:	Rc.181/Mines/2017, dated: 27.02.2020	
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 26.12.2019	
21	Project Cost (excluding EMP cost)	:	Rs. 38,09,300/-	
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m <sup>3</sup>	1,23,669 m <sup>3</sup> 6576 m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	32,650 m <sup>3</sup> 3840 m <sup>3</sup>

  
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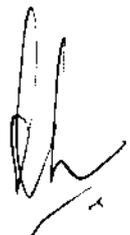

		:	Max Depth in mtrs	33m below ground level (3m Gravel + 30m Rough Stone)
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 25,04,100/- Recurring Cost – Rs. 12,94,369/-	
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-	

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 annual peak production capacity of not exceeding 32,650 m<sup>3</sup> of Rough Stone & 3840 m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining upto 33m below ground level (3m Gravel + 30m Rough Stone) and 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:

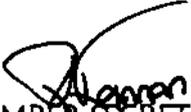
- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The Project Proponent shall plant 1000 Nos. of tree samplings in the proposed quarry site.
- 3) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.

  
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- 5) Since the windmill structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the 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.
- 6) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 7) The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 8) Considering the village/highway roads are located within 300m from the lease boundary, the PP shall carry out the small scale blasting involving 30 to 40 holes in a round at a time with keeping the total aggregate explosive charge/round is limited to 2 kg only in accordance with the provisions of MMR 1961.
- 9) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the windmill in mind.
- 10) However, 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 walls within a period of six months from the commencement of

  
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mining operations for **evaluating the slope stabilization & protective measures while designing the proposed benches**, by involving any one of the reputed Research and Academic Institutions - 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.

- 11) As accepted by the Project Proponent the CER cost of **Rs. 5 Lakhs** and the amount shall be spent for the activities as committed towards Government Higher Secondary School, Pachapalayam Village, Sulur Taluk, Coimbatore District, before obtaining CTO from TNPCB.

**Agenda No: 429-11**

**(File No: 9585/2022)**

**Proposed Ordinary Earth Quarry lease over an extent of 3.70.5 Ha at S.F.Nos. 263/2, 264/3C, Iruvelli Group Village, Kadaladi Taluk, Ramanathapuram District, Tamil Nadu by Thiru. J. Nagavinoth - for Environmental Clearance. (SIA/TN/MIN/403055/2022, dt 15.10.2022)**

The proposal was placed in 429<sup>th</sup> SEAC meeting held on 13.12.2023. 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 Project Proponent, **Thiru. J. Nagavinoth** has applied for Environmental Clearance for the proposed Ordinary Earth Quarry lease over an extent of 3.70.5 Ha at S.F.Nos. 263/2, 264/3C, Iruvelli Village, Kadaladi Taluk, Ramanathapuram 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 mining plan, the lease period is one year. The mining plan is for the period of one year & the production should not exceed 62250m<sup>3</sup> of red soil with an

  
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ultimate depth – 2m BGL.

4. Earlier, the proposal was placed for appraisal in the 363<sup>rd</sup> SEAC meeting held on 14.03.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain the following details from the PP.

- i) The PP carry out the geological assessment to identify mineralization, to establish continuity, quality and quantity of mineral mineral deposit, particularly, the presence of heavy minerals in the Teri sand (red earth) such as ilmenite, rutile, lucoxene, garnet, monazite, zircon and sillimanite, etc. Hence the PP shall furnish the report through the systematic sampling in the proposed site with showing geological coordinates as per the procedures laid in accordance with the provisions of Atomic Minerals Concessional Rules, 2016 and the mineralogical analysis obtained from the laboratory of IREL (India) Limited, Research Centre, Beach Road, Kollam, Kerala.
- ii) The PP shall change all the documents including the Mining Plan from "Red Soil" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022.
- iii) The proponent shall produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the Hon'ble Madurai Bench of Madras High Court.

5. Subsequently, the proposal was placed in the 609<sup>th</sup> Authority meeting held on 10.04.2023. The authority noted that this proposal was placed for appraisal in 363<sup>rd</sup> meeting of SEAC held on 14.03.2023. After detailed discussion, the Authority decided to obtain following details from the PP in addition to the above.

- a) This area is theri red desert which is component of marine sediments and shifting sand dunes. Studies have shown that such as red soil tracks there are many medicinal plants and vegetation like palmyra, pandanus etc. The

  
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impact of quarrying sand dunes, natural vegetation and proposed red soil to be studied in depth and to be reported.

6. On receipt of reply from the proponent, the proposal was again placed in this 397<sup>th</sup> SEAC meeting held on 03.08.2023. During, the meeting, the committee observed that the reply furnished by the PP was not satisfactory to the query raised in earlier 362<sup>nd</sup> SEAC meeting held on 13.03.2023. Hence SEAC decided to seek the following details from the project proponent.

- i) The PP carry out the geological assessment to identify mineralization, to establish continuity, quality and quantity of mineral mineral deposit, particularly, the presence of heavy minerals in the Teri sand (red earth) such as ilmenite, rutile, lucoxene, garnet, monazite, zircon and sillimanite, etc. Hence the PP shall furnish the report through the systematic sampling in the proposed site with showing geological coordinates and the mineralogical analysis obtained as per the procedures laid in accordance with the provisions of Atomic Minerals Concessional Rules, 2016 through the laboratory of IREL (India) Limited, Research Centre, Beach Road, Kollam, Kerala (or) through CSIR NML Madras Centre, CSIR Madras Complex (SERC Campus), Taramani, Chennai.
- ii) The PP shall change all the documents from "Earth" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022.
- iii) The proponent shall produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the Hon'ble Madurai Bench of Madras High Court.

7. The proponent vide letter dated.06.10.2023, furnished a reply to the queries raised by SEAC.

8. In view of the above, the proposal was again placed in this 429<sup>th</sup> SEAC meeting held on 13.12.2023.

  
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9. The salient features of the proposal are as follows:

File No	9585 / 2022	Category	B2 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	Thiru. J. Nagavinoth, S/o. Jeyapal, No.248, D Block, TNHB, Sethupathy Nagar, Ramanathapuram Taluk & District, Tamil Nadu - 623 503.	
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	Ordinary Earth	
3	S.F Nos. of the quarry site with area break-up	263/2, 264/3C	
4	Village in which situated	Iruveli Group	
5	Taluk in which situated	Kadaladi	
6	District in which situated	Ramanathapuram	
7	Extent of quarry (in ha.)	3.70.5 Ha	
8	Latitude & Longitude of all corners of the quarry site	9°9'27.85"N to 9°9'36.32"N 78°24'56.86"E to 78°25'3.77"E	
9	Topo Sheet No.	58-K/8	
10	Type of mining	Opencast Mechanized Mining	
11	Life of Project	1 Year	
	Lease Period	1 Year	
	Mining Plan Period	1 Year	
12	Mining Plan Details	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	Ordinary Earth 74,100 m <sup>3</sup>	Ordinary Earth -
	Minable Resources m <sup>3</sup> (RoM)	Ordinary Earth	Ordinary Earth

  
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		62,250 m <sup>3</sup>	-
	Annual Peak Production in m <sup>3</sup>	: Ordinary Earth	Ordinary Earth
		-	-
	Ultimate Depth in meters	: 2.0m bgl	-
13	Depth of water table	: 10m bgl	
14	Man Power requirement per day:	: 10 Nos.	
15	Water requirement: 5. Drinking water & Utilized water 6. Dust suppression & Green belt	: 4.0 KLD 1.5 KLD 2.5 KLD	
16	Power requirement	: TNEB	
17	Precise area communication approved by Assistant Director, Department of G&M	: Na.Ka.En.72/G&M/2022, dated: 04.05.2023	
18	Mining Plan approved by Assistant Director, Department of G&M	: Roc.No.79/G&M/2022, dated: 11.05.2023	
19	Department of G&M, Assistant Director 500m Cluster Letter	: Roc.No.79/G&M/2022, dated: 08.07.2022	
20	VAO Certificate Regarding Structures within 300m Radius	: Letter dated 21.09.2022	
21	Project Cost (excluding EMP cost)	: Rs. 22,50,000/-	
22	EC Recommendation	: Validity	30 years subject to the following upper limits. Ordinary Earth

		: Max Total RoM in m <sup>3</sup>	62,250 m <sup>3</sup>
		: Annual Max RoM in m <sup>3</sup>	-
		: Max Depth in mtrs	2.0m bgl
23	EMP cost (in Rs. Lakh).	: Rs. 12,60,000/-	
24	CER cost (in Rs. Lakh).	: Rs. 3 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 production quantity of 62,250 m<sup>3</sup> of Ordinary Earth & the ultimate depth of mining upto 2.0m bgl for a period of one year only and 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:

- 1) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 2) The PP shall install the tall wind sheets around the lease boundary directing the structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.
- 3) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 4) The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
- 5) The PP shall not carry out drilling & blasting operations in the proposed quarry.
- 6) The PP shall install a bio-toilet for the convenience of the workmen before obtaining the CTO from the TNPCB.
- 7) As accepted by the Project Proponent the CER cost of **Rs. 3 Lakhs** and the amount shall be spent for the below activities as committed, before obtaining CTO from TNPCB.

  
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CER Activity	CER (Rs in Lakhs)
Developing Sanitary facilities, Books to school Library. Providing smart class facility, environmental awareness sign boards and tree plantation in and around the school in Iruveli Group village	3.0
Total Cost Allocation	3.0

**Agenda No: 429-12**

**(File No: 9972/2023)**

**Proposed construction of residential building at S.No. 134/2A, 135/1, 135/2, 136/1, 136/2, 136/3, 136/4, 136/5, 136/6A, 136/6B, 136/7, 138/1, 138/2B2, Siruseri Village, Thirupporur Taluk, Chengulpet District, Tamilnadu by M/s. Pragnya South City Projects Private Limited. - For Environmental Clearance. (SIA/TN/INFRA2/425367/2023, dated 08.4.2023)**

The proposal was placed in this 429<sup>th</sup> SEAC Meeting held on 13.12.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The project proponent gave detailed presentation.

1. Earlier, the PP has obtained EC vide letter No. SEIAA/TN/F.509/EC/ 8(b)/230/2012 dt: 07.11.2013 for the construct residential Apartment at S.No.90/3A1A, 3A1B(PART) of Pudupakkam village & S.No.123, 127/1, 2, &3, 130/1A, 1B, 10, 11, 12, 13, 14, 15B, 16, 17A1B, 17A2, 17B1, 17B2, 17B3, 18, 19, 20, 132/1A, 1B, 3, 133, 134/1A1, 1A2, 1B, 1C, 1D, 2A, 2B, 135/1, 2, 136/1, 2, 3, 4, 5, 6A, 6B, 6C, 7, 137/1, 2, 138/1, 2A, 2B1, 2B2, 3, 4, 5A, 5B, 139/2D(PART), 3, 4(PART), 5, 6, 7, 8, 9, 10, 151/3(PART), 153/1, 2A, 2B, 3, 4, 5, 6, 154/1, 2, 155/1, 2, 156/1, 2, 3, 4A, 4B, 5B, 6, 8A, 9B1A, 9B1B, 9B2, 10B, 11, 157/1(PART), 2(PART), 3(PART), 4(PART), 5(PART), 6(PART), 158/1(PART), 2(PART), 159/5(PART), 7(PART), 8(PART), 11(PART), 12(PART), 160/2A1(PART), 2A2, 2B, 3, 4, 5A, 5B, 6, 161, 162 & 163/4A(PART), 4B(PART), 5(PART), 6 of Siruseri Village, Chengalpattu Taluk, Kancheepuram District, Tamil Nadu, comprising of Block A (4 Towers)—2 stilts+18 floors, Block B(3 Towers)-- 1 stilts+14 floors, Block C(7 Towers)-- 2 stilts+18/floors,

  
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Block D(1 Towers)--2 stilts+14 floors, Club House- Ground +1Floor, Retail- Ground +3 floors. Total no. of dwelling units – 3544 units. Total number of occupants is 17720. The area of the plot is 181137.29 m2 and the built-up area is 542148 m2. The parking area as per report is 142434 m2 respectively and green belt area is 44515.4 m2 “.

2. Now, the PP has submitted the proposal for EC for construction of Residential building at S.No. 134/2A, 135/1, 135/2, 136/1, 136/2, 136/3, 136/4, 136/5, 136/6A, 136/6B, 136/7, 138/1, 138/2B2, Siruseri Village, Thirupporur Taluk, Chengulpet District, Tamilnadu
3. The project consists Daffodils Block [Block C2]: Stilt 1 + Stilt 2 + 18 Floors & CS6 [Car Parking Block]: Stilt 1 + Stilt 2 built up area of 48,487.64 Sq.m.
4. The PP also reported that Due to Covid-19 and poor market status, 2013 EC was not fully executed and now they are applying separate EC for Each block as a Market strategy and EC SEIAA/TN/F.509/EC/ 8(b)/230/2012 dt: 07.11.2013 validity also got expired. So, same was surrendered to TNSEIAA on 13.02.2023.

Consent/EC description	Builtup Area- Sq.m	Item	Block-A	Block-B	Block-C	Block-D & Club House & Retail	
EC SEIAA/TN/F.509/EC/ 8(b)/230/2012 dt: 07.11.2013	5,42,148	Each Tower built up area (A)	33700	17117	44600	43797	
		No of Tower (B)	4	3	7	1	
		Blockwise Built up area (AxB)	134800	51351	312200	43797	
		<b>Total Built up area as per EC</b>	<b>5,42,148</b>				
Constructed as per Consent order vide: 2304213002748 dt:18.01.2023	1,56,469	Tower constructed	Block-A1	Block-B1	Block-C1	Block-C7	Club house, Podium and Other
		Blockwise Built up area	33700	17117	44600	43600	16452
		<b>Total Built up area as per Consent</b>	<b>1,56,469</b>				
Proposed EC for Phase 2 (Daffodils) Tower * in 2023	48,487.64	Daffodils Block (Block C2)			44,869.56		
		CS-6 (Car Parking Blocks)			3618.08		

5. Earlier, the proposal was placed in this 385<sup>th</sup> SEAC Meeting held on 22.06.2023. Based on the presentation and documents furnished by the PP, the SEAC

  
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observed that the the earlier EC will be valid till 6.11.2024. The MOEF&CC has issued OM No. F.No. 1A3-22/10/2022-1A.III (E 177258) Dt. 29.3.2022 and prescribed the procedure to be followed by the PP while surrendering the prior EC accorded by the MOEF&CC/SEIAA for developmental projects.

Therefore, SEAC decided to defer the proposal and instructed the PP to comply with the above said OM.

Now, the proposal was again placed in the 429<sup>th</sup> SEAC meeting held on 13.12.2023. The consultant vide email dated 13.12.2023 requested to postpone the meeting. Hence, committee decided to take it up in the ensuing meeting.

**Agenda No: 429-13**

**(File No: 10105/2023)**

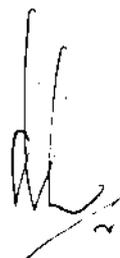
**Proposed Black Granite quarry lease area over an extent of 1.42.0 Ha at S.F.Nos. 146/3A, 147/1A & 147/2A of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Tmt. E. Edhayeswari - For Environmental Clearance. (SIA/TN/MIN/431815/2023, Dated: 01.06.2023)**

The proposal was placed for appraisal in this 429<sup>th</sup> meeting of SEAC held on 13.12.2023. 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, Tmt. E. Edhayeswari has applied for Environmental Clearance for the Proposed Black Granite quarry lease area over an extent of 1.42.0 Ha at S.F.Nos. 146/3A, 147/1A & 147/2A of Karandapalli Village, Denkanikottai Taluk, Krishnagiri 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. Earlier, PP have submitted application for B2 Category Environmental Clearance (File No. 4836/2016 and Online Proposal No. SIA/TN/MIN/34491/2015, Dated: 14.12.2015) which was transferred to DEIAA.
4. PP have previously submitted 2 applications for Terms of Reference and requested for withdrawal of the both proposals vide Online Proposal No. SIA/TN/MIN/27220/2018, Dated: 08.09.2017 as the proposal doesn't attract

  
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violation & applicable for B2 Category EC and SIA/TN/MIN/23510/2018, Dated: 07.04.2018 as the proposal was filed under Consultant ID.

5. Noganur Reserve Forest is located at a distance of 2.66 km, North West from the mine lease area. Cauvery North Wildlife Sanctuary is located at a distance of 3.20 km, South West from the mine lease area. Cauvery South Wildlife Sanctuary is located at a distance of 8.90 km, South West from the mine lease area.
6. DFO letter vide Na.Ka.No. 2687/2023/L, Dated: 31.03.2023
7. The salient features of the proposal are as follows:

File No	10105 / 2023	Category	B2 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Tmt. E. Edhayeswari, W/o. Elango. R, No.138, KG Street, Coimbatore District - 640 001.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Black Granite
3	S.F Nos. of the quarry site with area break-up	:	146/3A, 147/1A & 147/2A
4	Village in which situated	:	Karandapalli
5	Taluk in which situated	:	Denkanikottai
6	District in which situated	:	Krishnagiri
7	Extent of quarry (in ha.)	:	1.42.0 Ha
8	Latitude & Longitude of all corners of the quarry site	:	12°28'34.36"N to 12°28'38.65"N 77°43'13.15"E to 77°43'20.54"E
9	Topo Sheet No.	:	57-H/11
10	Type of mining	:	Opencast Mechanized Mining
11	Life of Project	:	14 years
	Lease Period	:	20 years

  
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	Mining Plan Period	:	5 years	
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Black Granite	Black Granite
		:	1,78,736 m <sup>3</sup> ROM which includes 17,874 m <sup>3</sup> of Black Granite Recovery (@10%) & 1,60,862 m <sup>3</sup> of Granite Waste (@90%)	-
	Minaible Resources m <sup>3</sup> (RoM)	:	Black Granite	Black Granite
		:	42,016 m <sup>3</sup> ROM which includes 4202 m <sup>3</sup> of Black Granite Recovery (@10%) & 37,814 m <sup>3</sup> of Granite Waste (@90%)	-
Annual Peak Production in m <sup>3</sup>	:	Black Granite	Black Granite	
	:	3000 m <sup>3</sup> ROM which includes 300 m <sup>3</sup> of Black Granite Recovery (@25%) & 2700 m <sup>3</sup> of Granite Waste (@75%)	-	
	Ultimate Depth in meters	:	21m	-
13	Depth of water table	:	57m-62m below ground level	

  
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14	Man Power requirement per day:	:	31 Nos.						
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.0 KLD 0.2 KLD - 0.5 KLD 0.3 KLD						
16	Power requirement	:	24000 Liters of HSD						
17	Precise area communication approved by Principal Secretary to Government, Industries (MME - 2) Department	:	G.O. (3D) No.39, Industries (MME - 2) Department, Dated: 01.03.2011						
18	2 <sup>nd</sup> Scheme of Mining Plan approved by Commissioner, Department of G&M	:	Rc.No.1260/MM4/2023, dated: 24.02.2023						
19	Department of G&M, Deputy Director 500m Cluster Letter	:	Roc.No.986/2021/Mines dated: 04.05.2023						
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 08.03.2023						
21	Project Cost (excluding EMP cost)	:	Rs. 1,54,95,000/-						
22	EC Recommendation	:	<table border="1"> <tr> <td>Validity</td> <td>30 years subject to the following upper limits.</td> </tr> <tr> <td></td> <td><b>Black Granite</b></td> </tr> <tr> <td>Max Total RoM in m<sup>3</sup></td> <td>12,000 m<sup>3</sup> ROM which includes 1200 m<sup>3</sup> of Black Granite Recovery (@25%) &amp; 10800 m<sup>3</sup></td> </tr> </table>	Validity	30 years subject to the following upper limits.		<b>Black Granite</b>	Max Total RoM in m <sup>3</sup>	12,000 m <sup>3</sup> ROM which includes 1200 m <sup>3</sup> of Black Granite Recovery (@25%) & 10800 m <sup>3</sup>
Validity	30 years subject to the following upper limits.								
	<b>Black Granite</b>								
Max Total RoM in m <sup>3</sup>	12,000 m <sup>3</sup> ROM which includes 1200 m <sup>3</sup> of Black Granite Recovery (@25%) & 10800 m <sup>3</sup>								

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			of Granite Waste (@75%)
		: Annual Max RoM in m <sup>3</sup>	3000 m <sup>3</sup> ROM which includes 300 m <sup>3</sup> of Black Granite Recovery (@25%) & 2700 m <sup>3</sup> of Granite Waste (@75%)
		: Max Depth in mtrs	21m
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 28,21,400/- Recurring Cost – Rs. 11,25,440/-
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-

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 annual peak production capacity not exceeding 3000 m<sup>3</sup> ROM which includes 300 m<sup>3</sup> of Black Granite Recovery (@25%) & 2700 m<sup>3</sup> of Granite Waste (@75%) by maintaining the ultimate depth of mining upto 21m and 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:

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 provide new fencing replacing the worn-out fencing along the boundary of the quarry site, before applying for CTO.
3. The PP shall execute the lease for only one part of the non-contiguous leases for the proposed quarry for the safety reasons.

  
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4. The PP shall carry out Initial Medical Examination and Periodic Medical Examination for the persons to be employed accordingly before the execution of the lease, in the Occupational Health Medical centers duly approved by the Directorate General of Mines Safety, Dhanbad.
5. The PP shall ensure the safety provisions as stipulated in the DGMS Circular No:02, dated. 29.11.2019 while using the Diamond Wire Saw machines in the proposed quarry operation.
6. The PP shall adopt only non-explosive technique (Rock Breaking Compounds) for the fracturing of granite blocks ensuring the eco-friendly mining operation in the proposed quarry.
7. To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.
8. The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.
9. 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 4<sup>th</sup> year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - 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

  
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be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

10. The PP shall **annually** carry out an Occupational Health Survey (OHS) includes free silica test, in accordance with the guidelines & period of examination laid in the **DGMS (Tech.) (S&T) Circular No. 01 of 2011**, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations (NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
11. As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the activities as committed towards mitigation cost / conservation cost for the Cauvery North Wildlife Sanctuary, before obtaining CTO from TNPCB.

**Agenda No: 429-14**

**(File No: 10469/2023)**

**Proposed Rough Stone and Gravel quarry lease over an extent of 1.34.42 Ha at S.F.No. 38/1A1B(P) of Pappakudi Part -1 Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu by Thiru. R. Vijayakumaran Nair – For Environmental Clearance.**

**(SIA/TN/MIN/444472/2023, Dated: 16.09.2023)**

The proposal was placed for appraisal in this 429<sup>th</sup> meeting of SEAC held on 13.12.2023. 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, Thiru. R. Vijayakumaran Nair has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent of 1.34.42 Ha at S.F.No. 38/1A1B(P) of Pappakudi Part -1 Village, Cheranmahadevi Taluk, Tirunelveli 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 project proponent, Thiru. R. Vijayakumaran Nair earlier applied seeking

  
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Environment Clearance (File No. 9865 and Online Proposal No. SIA/TN/MIN/419431/2023 dated: 22.02.2023) for the Proposed Rough Stone and Gravel quarry lease over an extent of 1.34.42 Ha at S.F.No. 38/1A1B(P) of Pappakudi Part -1 Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu. The proposal was placed in the 376<sup>th</sup> Meeting of SEAC held on 05.05.2023. During the appraisal, the SEAC had observed the following:

1. The Solar Panel Power units are situated at a distance of 278 m from the boundary of proposed quarry, i.e., in the **Extremely Sensitive Zone** considering the risk from the flyrock due to blasting operations in the proposed quarry.
2. The proposed quarry is freshly planned in the current location where no other such quarries are operating within 1 km and the Solar Panel structure has been installed before the commencement of this quarry proposal processing.
3. The proposed quarrying operation involving blast-induced vibrations & flyrock due to rock blasting operations and dust pollution due to huge excavation & hauling operations may severely damage the existing solar panel structures.
4. Besides, this proposal attracts the following legal implications:

(i). Under the provisions of Tamil Nadu Minor Mineral Concession Rules, 1959, Rule 36 (1-A) (a) says

*".... No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site: Provided that the existing quarries which are subsisting under current leases shall be entitled for continuance till the expiry of the lease period. The lessees whose quarries lie within a radius of 300 metres from the inhabited site shall undertake blasting operations only after getting permission of the Director of Mines Safety, Chennai".*

Similarly, Rule 36 (1-A) (c) also indicates

*".... No new layout, building plans falling within 300 metres from any quarry*

  
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*should be given approval by any agency unless prior clearance of the Director of Geology and Mining is obtained. On receipt of proposals for according clearance, the Director of Geology and Mining (DGM) shall decide upon the continuance or closure, as the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such ,clearance....”.*

**In view of the above reasons, the SEAC decided that not to recommend the proposal for the grant of Environmental Clearance.**

Subsequently, the subject was placed in 623<sup>rd</sup> Authority meeting held on 30.05.2023. In view of the above, SEIAA accepts the decision of SEAC and decided to request the Member Secretary to grant rejection letter to the proponent as per the 376<sup>th</sup> Meeting of SEAC held on 05.05.2023. Hence, this file may be closed and recorded.

4. The salient features of the proposal are as follows:

File No	10469 / 2023	Category	B2 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru. R. Vijayakumaran Nair, S/o. Raghavan Pillai, P Kamal T C 36/890, Perumthanni Vallakadavu Post, Thiruvananthapuram, Kerala – 695 008.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel
3	S.F Nos. of the quarry site with area break-up	:	38/1A1B(P)
4	Village in which situated	:	Pappakudi Part -1
5	Taluk in which situated	:	Cheranmahadevi
6	District in which situated	:	Tirunelveli

  
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7	Extent of quarry (in ha.)	:	1.34.42 Ha			
8	Latitude & Longitude of all corners of the quarry site	:	08°47'38.1382"N to 08°47'39.4448"N 77°30'58.4782"E to 77°30'50.7083"E			
9	Topo Sheet No.	:	58 – H/9			
10	Type of mining	:	Opencast Mechanized Mining			
11	Life of Project	:	5 years			
	Lease Period	:	5 years			
	Mining Plan Period	:	5 years			
12	Mining Plan Details	:	As per approved Mining Plan		As modified by SEAC	
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
		:	4,01,130 m <sup>3</sup>	26,74 2 m <sup>3</sup>	-	-
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
		:	1,99,970 m <sup>3</sup>	26,59 8 m <sup>3</sup>	-	-
Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Gravel	Rough Stone	Gravel	
	:	53,665 m <sup>3</sup>	14,694 m <sup>3</sup>	-	-	
Ultimate Depth in meters	:	34m below ground level		-		
13	Depth of water table	:	55m below ground level			
14	Man Power requirement per day:	:	18 Nos.			
15	Water requirement:	:	1.9 KLD			
	1. Drinking water	:	0.9 KLD			
	2. Utilized water	:	-			

  
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	3. Dust suppression 4. Green belt	0.5 KLD 0.5 KLD														
16	Power requirement	: 1,64,409 Liters of HSD														
17	Precise area communication approved by Joint Director / Assistant Director (i/c), Department of G&M	: Rc.No.M2/36808/2020, Dated:07.08.2023														
18	Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M	: Rc.No.M2/36808/2020, Dated:18.08.2023														
19	Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter	: Rc.No.M2/36808/2020, Dated:31.01.2023														
20	VAO Certificate Regarding Structures within 300m Radius	: Letter dated 23.02.2023														
21	Project Cost (excluding EMP cost)	: Rs. 46,60,000/-														
22	EC Recommendation	<table border="1"> <tr> <td rowspan="2">: Validity</td> <td colspan="2">30 years subject to the following upper limits.</td> </tr> <tr> <td>Rough Stone</td> <td>Gravel</td> </tr> <tr> <td>: Max Total RoM in m<sup>3</sup></td> <td>1,99,97 0 m<sup>3</sup></td> <td>26,598 m<sup>3</sup></td> </tr> <tr> <td>: Annual Max RoM in m<sup>3</sup></td> <td>53,665 m<sup>3</sup></td> <td>14,694 m<sup>3</sup></td> </tr> <tr> <td>: Max Depth in mtrs</td> <td colspan="2">34m below ground level</td> </tr> </table>	: Validity	30 years subject to the following upper limits.		Rough Stone	Gravel	: Max Total RoM in m <sup>3</sup>	1,99,97 0 m <sup>3</sup>	26,598 m <sup>3</sup>	: Annual Max RoM in m <sup>3</sup>	53,665 m <sup>3</sup>	14,694 m <sup>3</sup>	: Max Depth in mtrs	34m below ground level	
: Validity	30 years subject to the following upper limits.															
	Rough Stone	Gravel														
: Max Total RoM in m <sup>3</sup>	1,99,97 0 m <sup>3</sup>	26,598 m <sup>3</sup>														
: Annual Max RoM in m <sup>3</sup>	53,665 m <sup>3</sup>	14,694 m <sup>3</sup>														
: Max Depth in mtrs	34m below ground level															
23	EMP cost (in Rs. Lakh).	: Capital Cost – Rs. 12,54,800/- Recurring Cost – Rs. 5,78,660/-														



24	CER cost (in Rs. Lakh).	: Rs. 5,00,000/-
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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 annual peak production capacity of not exceeding 53,665 m<sup>3</sup> of Rough Stone (5<sup>th</sup> year) & 14,694 m<sup>3</sup> of Gravel (1<sup>st</sup> year) by maintaining the ultimate depth of mining upto 34m below ground level and 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:

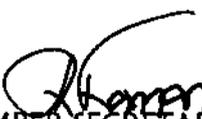
- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall provide tall sheet metal fencing along the quarry boundary in the direction where the solar panel power plant (renewable energy) is located, before obtaining the CTO from TNPCB.
1. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
2. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
3. **Since the structures including solar panels are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months** from the commencement of quarrying operations after obtaining the prior permission from the DMS/Chennai, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock

  
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- from the blasting operations carried out in the 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. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
  5. As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' near the Solar Panel structure at a distance of 300m, & 500m through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
  6. 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 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - 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.

  
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7. The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
8. The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
9. The PP shall ensure that the transportation of minerals shall not be carried out through the village road passing near the school premises.
10. The PP shall appoint a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 before executing the lease and a copy of such appointment shall be sent to the DMS/Chennai Region atleast 30 days before the commencement of the mining operations without fail.
11. The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
12. Considering the Solar Panel structures are located within 500m from the lease boundary, the PP shall carry out the small scale controlled blasting involving 30 to 40 holes using the muffling & line drilling/prespilting techniques. in a round at a time with keeping the total aggregate explosive charge/round is limited to 2 kg only in accordance with the provisions of MMR 1961.
13. The PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
14. Considering the solar panel structures are located nearby, the Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points

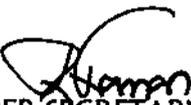
  
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should also have efficient dust control arrangements. These should be properly maintained and operated.

15. The PP shall plant the trees in three rows around the mine lease boundary directing towards the solar panel structure to enable the arresting of the dust particles to propagate the transmission towards the structures. Site specific eco restoration plan shall be implemented.
16. The PP shall furnish the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, to the concerned AD (Mines) at the time of lease execution.
17. The PP shall not employ any external agency for carrying out the blasting operation in the proposed quarry other than by statutory Blaster / Mine Mate and he shall also install the temporary (or) permanent magazine approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
18. The PP shall appoint a First Class/Second Class Mine Manager for managing the quarrying operations before the execution of lease and a copy of the appointment shall be sent to the Director of Mines Safety, Chennai Region along with Notice of Opening of the Mine under the provisions of MMR 1961.
19. All the conditions stipulated in the Consent for establishment / operation issued, if applicable by the Tamil Nadu State Pollution Control Board should be effectively implemented.
20. No quarrying shall be undertaken outside the area specified in this environmental clearance letter. This EC is valid for location mentioned above only. Any change in the location and modification in mining plan shall be undertaken only with the fresh approval and environmental clearance issued thereafter.
21. Waste rock shall be stacked appropriately in such a way that it does not obstruct the solar panel structures and shall be used for backfilling of mined out pits consequently.

  
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22. 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 earplugs / muffs.
23. Regular monitoring of ground water level and quality shall be carried out in and around the project by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Integrated Regional Office, Chennai.
24. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government School, Pappakudi, Tirunelveli District, before obtaining CTO from TNPCB.

**Agenda No: 429 - 15.**

**(File No: 10456/2023)**

**Existing Rough stone Quarry over an Extent of 2.00.0Ha (Govet. Poramboke Land) in S.F. No:383/2B (Part-2) at Erumapalayam Village of Salem Taluk, Salem District, Tamil Nadu by Thiru. B. Pandidurai - For Environmental Clearance. (DEIAA Re-appraisal (SIA/TN/MIN/431163/2023, Dt.27/05/2023)**

The proposal was placed in 429<sup>th</sup> SEAC Meeting held on 13.12.2023. The project proponent gave 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. Earlier, the PP has obtained EC through DEIAA vide Lr.No. Dt:19.05.2018 valid upto 18.05.2024 (including Covid relaxation as per MoEF&CC notification Dt:18.01.2023) for over an extent of 2.00 ha, Rough Stone - 260315 m<sup>3</sup>, & Depth - 66m.
2. MoEF&CC OM Dt:28.04.2023.
3. Now, the project proponent, Thiru.B.Pandidurai has applied for Environmental

  
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Clearance for the Proposed Rough stone Quarry over an Extent of 2.00.0Ha in S.F.No:383/2B (Part-2) at Erumapalayam Village of Salem Taluk, Salem District, Tamil Nadu.

4. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.

During the SEAC meeting, EIA coordinator informed that Project Proponent is **ABSENT** for the meeting. Hence, the SEAC has decided not to take up this proposal for this SEAC appraisal meeting and to take up in the forthcoming SEAC meeting after obtaining reasons from PP for not attending the meeting. Also, the PP shall furnish CCR obtained from IRO(SZ), MoEF&CC & AD/DD, Dept. of G&M letter for remarks on details of quantity of mineral excavated, Existing pit dimension, & 500m radius cluster letter in regard to DEIAA EC issued.

**Agenda No: 429 - 16.**

**(File No: 10470/2023)**

**Proposed Gravel quarry over an Extent of 2.50.5ha (Patta Land) S.F.Nos.89/6, 89/7A1A, 89/7A2, 89/7B, 89/9, 90/10(P), 90/11, 90/12B2, 91/5 & 91/6 of Thirumanikuzhi Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu by Thiru.K.Selvanathan - For Environmental Clearance. (SIA/TN/MIN/447407/2023, dated: 07.10.2023)**

The proposal was placed in 429<sup>th</sup> SEAC Meeting held on 13.12.2023. The project proponent gave 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, Thiru.K.Selvanathan has applied for Environmental Clearance for the proposed Gravel quarry over an Extent of 2.50.5ha S.F.Nos.89/6, 89/7A1A, 89/7A2, 89/7B, 89/9, 90/10(P), 90/11, 90/12B2, 91/5 & 91/6 of Thirumanikuzhi Village, Cuddalore Taluk, Cuddalore 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.

  
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3. The precise area communication has been issued to grant the lease for a period of 2 Year. The approved mining plan is for the period of 2 Years with the production quantity of not to exceed 34112m<sup>3</sup> of Gravel & the annual peak production shall not exceed 20442m<sup>3</sup> of Gravel and the depth of mining is 2m AGL.
4. During presentation, the PP has admitted that they have inadvertently mentioned Udayamarthandapuram Lake Wildlife Sanctuary is at a distance of 142.40 m instead of 142.40 Km.

**Salient features of the proposed project activity:**

Sl. No	Details of the Proposal	:	Data Furnished
1.	Name of the Owner/Firm	:	Thiru. K. Selvanathan, S/o. Kasilingam, No.29, South Street, Vandikuppam, Thirumanikuzhi Village, Cuddalore Taluk, Cuddalore District - 607 401.
2.	Type of quarrying (Savudu/Rough Stone/ Sand/ Granite)	:	Gravel
3.	S.F No. Of the quarry site with area break-up	:	89/6, 89/7A1A, 89/7A2, 89/7B, 89/9, 90/10(P), 90/11, 90/12B2, 91/5 & 91/6
4.	Village in which situated	:	Thirumanikuzhi
5.	Taluk in which situated	:	Cuddalore
6.	District in which situated	:	Cuddalore
7.	Extent of quarry (in ha.)	:	2.50.5ha
8.	Latitude & Longitude of all corners of the quarry site	:	11°44'07.92"N to 11°44'13.95"N 79°41'21.82"E to 79°41'30.13"E
9.	Topo Sheet No.	:	58-M/10

  
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10.	Type of mining	Opencast method of shallow method of mining
11.	Life of Project	: 2Years
12.	Lease Period	2 Years
13.	Mining Plan Period	: 2 Years
	Mining Plan Details	: As per approved Mining Plan
	Geological Resources m <sup>3</sup> (RoM)	: 51774 m <sup>3</sup> of Gravel
	Mineable Resources m <sup>3</sup> (RoM)	: 34112 m <sup>3</sup> of Gravel
	Annual Peak Production in m <sup>3</sup>	20442 m <sup>3</sup> of Gravel
	Maximum Depth in meters	2m AGL
14.	Depth of water table	: 47m -42m
15.	Man Power requirement per day:	: 23 Nos
16.	Water requirement:	
	1. Drinking water	1.0 KLD
	2. Utilized water	: 0.2 KLD
	3. Dust suppression	0.4 KLD
	4. Green belt	0.4 KLD
17.	Power requirement	TNEB
18.	Precise area communication approved by the. Assistant Director, Department of Geology and Mining with date	: Rc.No.68/Mines/2023, Dated: 03.08.2023
19.	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.68/Mines/2022, Dt:19.09.2023

  
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20.	Assistant Director, Department of Geology and Mining 500m cluster letter	:	Rc.No.68/Mines/2022, Dt:19.09.2023
21.	Soil Test Report	:	Lr. Dt:10.08.2023 from Department of Technical Education – Tamil Nadu, Government college of Engineering – Dharmapuri, Department of Civil Engineering, Soil Mechanics Laboratory.
22.	Project Cost (excluding EMP cost)	:	Rs.28.04 Lakhs
23.	EMP cost	:	Rs.25.37 Lakhs
24.	CER cost	:	Rs.2.0 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 2 Years and the quantity shall not exceed 34112 m<sup>3</sup> of Gravel and the depth of mining up to 2m AGL for a period of two years only from the date of lease execution** subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. 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.
2. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
3. The PP shall install the tall wind sheets around the lease boundary directing the structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.

  
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4. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
5. The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
6. The PP shall not carry out drilling & blasting operations in the proposed quarry.
7. The PP shall install a bio-toilet for the convenience of the workmen before obtaining the CTO from the TNPCB.
8. 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.
9. As accepted by the Project proponent the CER cost is Rs.2 Lakhs and the amount shall be spent for the Panchayat Union Middle School, Thirumanikuzhi Village, Cuddalore District as committed, before obtaining CTO from TNPCB.

**Agenda No: 429 - 17.**

**(File No: 10477/2023)**

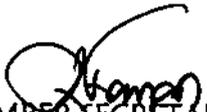
**Existing Multi Colour Granite quarry lease over an extent of 4.80.0Ha of Patta land in S.F.Nos.442/3 (Part) of K. Pitchampatti Village, Karur Taluk and District, Tamil Nadu by Thiru.R.AnupKumar Lohia – For Environmental Clearance.**

**(SIA/TN/MIN/430005/2023, Dt. 20/05/2023)**

The proposal was placed in 429<sup>th</sup> SEAC Meeting held on 13.12.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

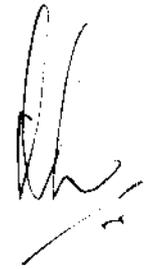
**The SEAC noted the following:**

1. Earlier, the PP has obtained EC through DEIAA vide Lr.DEIAA-DIA/TN/ MIN /17922/2018-KRR-EC.No. 123/2018/Mines, Dt:09.10.2018 valid upto 08.10.2024 (including Covid relaxation as per MoEF&CC notification Dt:18.01.2023) for over an extent of 4.80.0Ha, Rough Stone - 350350 m<sup>3</sup>, & Depth - 31.5m and the PP sated that they have achieved only 13,524m<sup>3</sup> of Multi Colour Granite also the EC Granted depth is 31.5m and the quarry attained the maximum depth of 31.5m and the details are mentioned in the Scheme of Mining plan approved for the period of 2022-23 to 2026-27.

  
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2. Certified Compliance Report (CCR) obtained from IRO(SZ); MoEF&CC vide Lr. Dt:18.05.2023.
3. MoEF&CC OM Dt:28.04.2023.
4. Now, the project proponent, Thiru.R.AnupKumar Lohia has applied for Environmental Clearance for the Proposed Multi Colour Granite quarry lease over an extent of 4.80.0Ha of Patta land in S.F.Nos.442/3 (Part) of K. Pitchampatti Village, Karur Taluk and District, Tamil Nadu.
5. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification,2006.

During the SEAC meeting, EIA coordinator informed that Project Proponent is Absent for the meeting. Hence, the SEAC has decided not to take up this proposal for this SEAC appraisal meeting and to take up in the forthcoming SEAC meeting after obtaining reasons from PP for not attending the meeting. Also, it was noted that, meanwhile the PP submitted Lr. Dt:11.12.2023 vide online informing request for withdraw of this proposal seeking Environmental Clearance stating as follows

*"I wish to bring your kind notice and records that considering the quality of the material at present market demand, Production cost and selling cost is not Economically viable since the quality of the material is poor with fissures and fractures considering the above points and also my personnel reasons, I am decided to surrender the quarry lease to the Government."*

The Committee noted that all ECs obtained from DEIAA vide letter requires re-appraisal as per MoEF&CC O.M dated.24.04.2023 and hence decided that the proponent's withdrawal request cannot be accepted now.

Hence, the proponent/consultant is directed to make the presentation before the Committee for re-appraisal. In view of the above, the Committee decided to defer the proposal in this meeting.

**Agenda No: 429-18**

**(File No: 10471/2023)**

**Proposed Rough Stone and Gravel Quarry over an extent of 2.29.5 Ha at S.F.Nos.2408/3B1, 2408/3B2, 2408/3B3 & 2408/4 of Devathanapatti Village,**

  
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**Periyakulam Taluk, Theni District, Tamil Nadu by Tmt. P.Rasathi -For Environmental Clearance. (SIA/TN/MIN/447059/2023, Dated:05.10.2023).**

The proposal was placed in the 429<sup>th</sup> Meeting of SEAC held on 13.12.2023. 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, Tmt. P.Rasathi has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 2.29.5 Ha at S.F.Nos.2408/3B1, 2408/3B2, 2408/3B3 & 2408/4 of Devathanapatti Village, Periyakulam Taluk, Theni 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.

During the meeting the Committee noted that the project proponent is absent during the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

**Agenda No: 429-19**

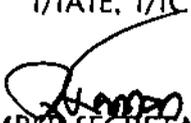
**(File No: 10222/2023)**

**Proposed Construction of Residential Building - Non-High-Rise Group Development at S.F.No.1/1A1B, 1/1A1C, 1/1A1D, 1/1A1E, 1/1C1B, 1/1C1C, 1/4A2, 1/5A, 1/39, 1/40, 1/41, 1/42A, 1/42B, 1/70, 1/71, 1/106 of Moullivakkam Village & S.F.No. 166/5 of Koluthuvanchery Village, Kundrathur Taluk, Kancheepuram District, Tamil Nadu by M/s. Casagrاند Fresh Private Limited - For Environmental Clearance. (SIA/TN/INFRA2/435637/2023, Dated:05.07.2023).**

The proposal was earlier placed in the 406<sup>th</sup> SEAC meeting held on 01.09.2023. 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. Casagrاند Fresh Private Limited has applied for Environmental Clearance under for the Proposed Construction of Residential Building - Non High Rise Group Development at S.F.No.1/1A1B, 1/1A1C, 1/1A1D, 1/1A1E, 1/1C1B, 1/1C1C, 1/4A2, 1/5A, 1/39, 1/40, 1/41, 1/42A, 1/42B, 1/70, 1/71.

  
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1/106 of Moulivakkam Village & S.F.No. 166/5 of Koluthuvanchery Village, Kundrathur Taluk, Kancheepuram 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 Project involves construction of High- Rise Residential Group Development Building Consisting of 3 Blocks with Combined Basement and Block – 1 : Ground Floor+ 5 Floors with 118 Dwelling Units & Block – 2 : Ground Floor +5 Floors With 210 Dwelling Units and club house consists of Ground Floor +4 Floors and Block – 3 : Ground Floor+ 5 Floors with 83 Dwelling Units, Totally 411 Dwelling Units.

Based on the presentation and document furnished by the proponent, SEAC decided to call for the following additional details,

- i) The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body/TWAD.
- ii) The proponent shall furnish NOC for flood inundation point of view obtained from the Competent Authority/PWD since the site is very close to Porur lake.
- iii) The PP shall furnish Geo-Technical report to analyse percentage of clay soil to ensure foundation capability.
- iv) The PP shall furnish details of soil strata viz depth of clay & depth of weathered rock to provide efficient storm water management system.
- v) The PP shall furnish details regarding parking area provided and detailed traffic congestion study.
- vi) The PP shall furnish NOC of Airport authority for Height Clearance.
- vii) The PP shall furnish structural stability certificate from the Competent Authority since the site is very close to Porur lake.
- viii) The PP shall furnish revised CER details.

Based on the Proponent's reply, the proposal was again placed in this 429<sup>th</sup> Meeting of SEAC held on 13.12.2023. During the meeting the PP has requested for additional time to produce the following details,

  
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1. The proponent shall furnish NOC for flood inundation point of view obtained from the Competent Authority/PWD since the site is very close to Porur lake.
2. The PP shall furnish drone video/photographs showing the actual site condition especially during the severe Michaung Cyclone storm on 04.12.2023 (Monday).
3. The PP shall furnish structural stability certificate from the Competent Authority since the site is very close to Porur lake.

On receipt of the above details, the SEAC would further deliberate on this project and decide the further course of action. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

**Agenda No. 429 - 20**

**(File No. 10465/2023)**

**Proposed Rough stone and Gravel Quarry lease over an extent of 3.77.5 Ha at S.F.No. 492/B3 & 493/1 (P) in Kodanthur South village, Aravakurichi Taluk, Karur District, Tamil Nadu by Tvl.Sri Vetrivelan Blue Metal - Environment Clearance. (SIA/TN/MIN/447331/2023 dt 07/10/2023)**

The proposal was placed in this 429<sup>th</sup> meeting of SEAC held on 13.12.2023. The Project Proponent made a detailed presentation on the 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, Tvl. Sri Vetrivelan Blue Metal has applied seeking Environment Clearance for the proposed Rough stone and Gravel Quarry lease for next scheme of mining over an extent of 3.77.5 Ha at S.F.No. 492/B3 & 493/1 (P) in Kodanthur South village, Aravakurichi Taluk, Karur 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, as amended.
3. DEIAA EC Lr. No. DEIAA-DIA/ TN/ MIN/ 18679/ 2018-KRR/ Ec.No.139/ 2018/ Mines, Dateds:02.11.2018.

  
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4. Array of Solar panels noticed at a distance of 470m from the boundary of the project site on northern side.
5. The PP has filed another application for the same project vide application no. 4341339 (File No. 10165) in PARIVESH and is pending at SEIAA for want of additional details.

Based on the presentation and documents furnished by the project proponent, SEAC directed the Project Proponent to furnish the following additional details/documents:

1. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc indicating the ownership of the building, nature of construction, age of the building, number of residents, their profession and income, etc. On receipt of the aforesaid details/documents, the Committee will further deliberate and decide on future course of action.
2. Certified compliance report from the competent authority shall be obtained for the Environmental Clearance issued to the existing quarry with the activities carried out till now & the budgetary provisions for fulfilling the compliances.
3. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc and submit the scientific study report.
4. Mitigation measures proposed to minimize the impact of the proposed mining activity on the solar panels located near the mine lease area.

On receipt of the details sought above, the subject will be taken up for further deliberations to decide on the future course of action. The proponent is advised to submit the above-mentioned details within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.

  
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**Agenda No. 429 - 21**

(File No. 10472/2023)

Proposed Rough stone Quarry lease over an extent of 1.00.0Ha of Government Poromboke Land in S.F.Nos. 219/1A (Part-3) of Kadambur Village, Gangavalli Taluk, Salem District, Tamil Nadu by Thiru.M. Koteeswaramuthu - Environment Clearance. (SIA/TN/MIN/431235/2023 dt 28/05/2023)

The proposal was placed in this 429<sup>th</sup> meeting of SEAC held on 13.12.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The SEAC noted that the project proponent has not turned up for the meeting. Hence SEAC decided to defer the subject to a later date and to call for explanation from the PP for not attending the meeting.

**Agenda No: 429 - 22**

File No: 10466/2023

Proposed multi-Colour Granite quarry lease over an extent of 4.05.3 ha in S.F. No. 676/4, 806/2, 826/1, 826/2, 826/3, 826/4 & 826/5 of Bodichipalli Village, Denkanikottal Taluk, Krishnagiri District, Tamil Nadu by Thiru. N. Sankar - For Environmental Clearance. (SIA/TN/MIN/ 447394 /2023, Dated: 07.10.2023)

The proposal was placed in this 429<sup>th</sup> SEAC meeting held on 13.12.2023. 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 project proponent gave detailed presentation.

**The SEAC noted the following:**

1. The Project Proponent, Thiru. N. Sankar has applied for Environmental Clearance for the Proposed Multi-Colour Granite quarry lease over an extent of 4.05.3 ha in S.F. No. 676/4, 806/2, 826/1, 826/2, 826/3, 826/4 & 826/5 of Bodichipalli Village, Denkanikottai Taluk, Krishnagiri 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.

Based on the presentation and documents furnished by the proponent, committee decided to call for additional details as follows

  
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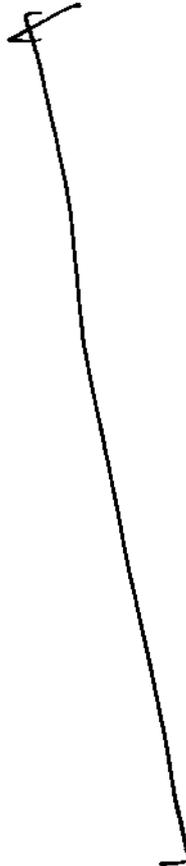


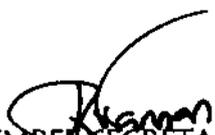


1. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
2. The proponent shall carry out a scientific study to quantify the impacts of the proposed activity with respect to the wind direction and appropriate mitigation measures shall be submitted.

On receipt of the same, further deliberations will be done. Hence, the proponent is advised to submit the details within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.

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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.

  
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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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### GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

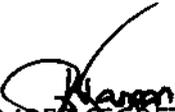
1. The proponent shall mandatorily appoint the statutory competent persons and commence the quarry operations within the purview of Mines Act 1952.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and 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.

  
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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.

  
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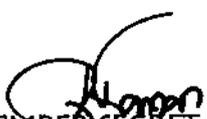
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15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions 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.

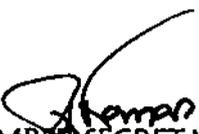
  
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### ROUGH STONE/JELLY/BLUE METAL QUARRY

- 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.

  
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- 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.

  
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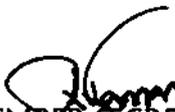

- 17) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 18) Proper barriers 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.

- 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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**SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WINDMILLS**

Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 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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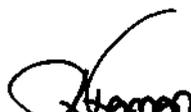


### TERMS OF REFERENCE (ToR) FOR GRANITE / ROUGH STONE QUARRY

1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:
  - (i) Original pit dimension
  - (ii) Quantity achieved Vs EC Approved Quantity
  - (iii) Balance Quantity as per Mineable Reserve calculated.
  - (iv) Mined out Depth as on date Vs EC Permitted depth
  - (v) Details of illegal/illicit mining
  - (vi) Violation in the quarry during the past working.
  - (vii) Quantity of material mined out outside the mine lease area
  - (viii) Condition of Safety zone/benches
  - (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m.
2. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.



6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - 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. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.
8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.

  
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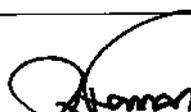
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12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
14. Quantity of minerals mined out.
  - Highest production achieved in any one year
  - Detail of approved depth of mining.
  - Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - If EC and CTO already obtained, the copy of the same shall be submitted.
  - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,
17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.

19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

  
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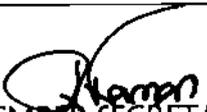
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25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
28. Impact on local transport infrastructure due to the Project should be indicated.
29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
32. 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-I in consultation with the DFO, State Agriculture University. 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.
33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted 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

34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed

  
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compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.

42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.

43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

  
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## Annexure II

### Standard Environmental Clearance Conditions prescribed by MoEF&CC for Construction Projects.

#### 1. Statutory Compliance:

1. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightning etc.
3. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
4. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
6. The project proponent shall obtain the necessary permission for drawing of ground water / surface water required for the project from the competent authority.
7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation

  
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Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.

10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

**2. Air quality monitoring and preservation:**

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.

2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.

3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.

4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.

5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.

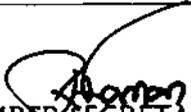
6. Wet jet shall be provided for grinding and stone cutting.



7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.
8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
11. For indoor air quality the ventilation provisions as per National Building Code of India.

**3. Water Quality Monitoring and Preservation:**

1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.
2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3. Total freshwater use shall not exceed the proposed requirement as provided in the project details.
4. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).

  
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5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
6. At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
12. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement shall

be provided. In areas where ground water recharging is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.

13. All recharges should be limited to shallow aquifer.
14. No ground water shall be used during construction phase of the project.
15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
16. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).
17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed into municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be taken to mitigate the odor problem from STP.

  
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21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

**4. Noise Monitoring and Prevention:**

1. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
2. Noise level survey shall be carried out as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of Half Yearly Compliance Report (HYCR).
3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

**5. Energy Conservation Measures:**

1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
4. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting

design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

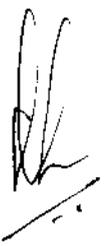
5. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.
7. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

**6. Waste Management:**

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
2. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.

  
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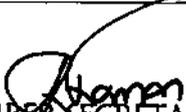
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5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.
8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
9. Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.
10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

**7. Green Cover:**

1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.

  
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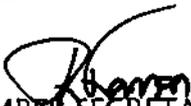
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3. Where the trees need to be cut with prior permission from the concerned local authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
5. A wide range of indigenous plant species should be planted as given in the Appendix-I, in consultation with the Government Forest/Horticulture Departments and State Agriculture University.

**8. Transport:**

1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
  - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
  - b. Traffic calming measures.
  - c. Proper design of entry and exit points.
  - d. Parking norms as per local regulation.
2. Vehicles hired to bring construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms

  
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radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

**9. Human Health Issues:**

1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
2. For indoor air quality the ventilation provisions as per National Building Code of India.
3. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
4. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
5. Occupational health surveillance of the workers shall be done on a regular basis.
6. A First Aid Room shall be provided in the project both during construction and operations of the project.

**10. Corporate Environment Responsibility:**

1. The PP shall complete the CER activities, as committed, before obtaining CTE.



2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of Half Yearly Compliance Report (HYCR).
3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Half Yearly Compliance Report (HYCR).

**11. Miscellaneous:**

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.

  
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3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit Half Yearly Compliance Reports (HYCR) on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
6. The project proponent shall inform the Authority (SEIAA) of the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also during their presentation to the State Expert Appraisal Committee.
9. No further expansion or modifications to the plant shall be carried out without prior approval of the Authority (SEIAA).
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Authority (SEIAA) may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.

13. The Regional Office of the MoEF&CC Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

  
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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>Adenanthera pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாளை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentos</i>	Iruvathi	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	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூளி
18	<i>Crotova adansoni</i>	Mavalingum	மாவிலங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உசா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உசா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காலை
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகளை
23	<i>Ficus amplissima</i>	Kaifitchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயிலி
27	<i>Lanea coromandelica</i>	Odhiam	ஓதியம்
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	விலா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிரம்பா, பிசிண்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழமரம்
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

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40	<i>Premna mollissima</i>	Murnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumurnai	நறு முள்ளை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வெண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கறிபாலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மனிப்புங்கள் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strebilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாள் கொட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தான்றி
56	<i>Terminalia arjuna</i>	Ven marudhu	வென் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்கரா
60	<i>Wrightia tinctoria</i>	Veppalai	வெப்பாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்புளி

  
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Appendix -III

Display Board

(Size 6' x5' with Blue Background and White Letters)

சுரங்கம்

கரங்கங்களில் சுவாரி செயல்பாடுகளுக்கான சுற்றுத்தழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEAAV, தேதி உட்பட்டு சுற்றுத்தழல் அனுமதி தேதி வரை செல்லத்தக்கதாக உள்ளது.

பகமை பகுதி வளர்ச்சி செயல்பாட்டுக்கான கரங்கத் திட்டம்	சுவாரியின் எல்லைவாய் சுற்றி வேலி அமைக்க வேண்டும் கரங்கப்பாளையின் ஆழம் தளமட்டத்திலிருந்து மீட்டர்க்கு கிளாமல் இருக்க வேண்டும் காற்றில் மாசு ஏற்படாதவாறு கரங்க பணிகளை மேற்கொள்ள வேண்டும்.
நடப்பட்டு பராமரிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை	வாகனங்கள் செல்லும் பாதையில் மாசு ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் வாரிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும். இளைச்சல் அனைவரும் சூசி மரபாட்டையும் சூளைப்பதிகை சுவாரியின் எல்லைவாய் சுற்றி அடர்த்தியான பகமை பகுதியை ஏற்படுத்த வேண்டும்.
கரங்கத்தில் வெடி வைக்கும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறும் மற்றும் கற்கள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உன்னிப்பாக செயல்படுத்தப்பட வேண்டும்	
கரங்கத்தில் இருந்து ஏற்படும் இளைச்சல் அளவு 85 டிசிபெல்ஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.	
கரங்க சட்ட விதிகள் 1956ன் கீழ் கரங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கைதளமுள்ள கழிப்பறை வசதிகளை செய்து தர வேண்டும்.	
கிராமம் அல்லது பஞ்சாயத்து வாரியாக வாகனங்கள் செல்லும் சாலைவாயை தொடர்ந்து நன்கு பராமரிக்க வேண்டும்.	
கரங்கப்பணிகளால் அகலில் உள்ள விவசாயப் பணிகள் மற்றும் தீர்ந்தவைகள் பாதிக்கப்படக் கூடாது.	
தீர்ந்தவைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் திடத்தடி நீரின் தரத்தினை தொடர்ந்து கண்காணிக்க வேண்டும்.	
கரங்கத்திலிருந்து கவிசை பொருட்களை எடுத்துச் செல்லு கிராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுத்தழல் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும்.	
கரங்கப்பணிகள் முடிக்கப்பட்டபின் கரங்க மூடல் திட்டத்தில் உள்ளவாறு கரங்கத்தினை மூட வேண்டும்.	
கரங்க நடவடிக்கைகளை முடித்தபின்னர் கரங்கப் பகுதி மற்றும் கரங்க நடவடிக்கைகளால் இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்து தரவாய்க்க விவங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகமைப்பகுதியை உருவாக்க வேண்டும்.	
முழுமையான நிபந்தனைகளை அறிய பாரியேஷ் ( <a href="http://parish.in">http://parish.in</a> ) என்கிற இணையதளத்தைப் பார்வையிடவும் மேலும் எந்தவித சுற்றுத்தழல் சார்ந்த புகள்களுக்கு சென்னையில் உள்ள சுற்றுத்தழல் மற்றும் வன அமைச்சகத்தின் குருங்கிணைத்த வட்டார அலுவலகம்: 044 - 26222325 (அல்லது) துடுநாடு மாசு கட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுத்தழல் பொறியாளரை அணுகவும்.	

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