

STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of the Meeting of 283rd State Expert Appraisal Committee (SEAC) held on 9th June 2022 (Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for Appraisal of Building and Construction Projects, Townships and Area Development Projects & Mining projects through online and offline mode.

Agenda No: 283-01

(File No: 8988/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 2.47.50 Ha at S.F.No. 53/1B, 53/2A, 53/2B, 53/2C & 53/2D of Aladipatti Village, Aruppukottai Taluk, Viruthunagar District, Tamil Nadu by Thiru.R.Senthilkumar Raju - for Environmental Clearance.

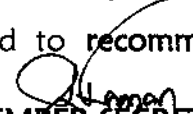
(SIA/ TN/ MIN/ 255164/2022 dated 05.02.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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.R.Senthilkumar Raju has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 2.47.50 Ha at S.F.No. 53/1B, 53/2A, 53/2B, 53/2C & 53/2D of Aladipatti Village, Aruppukottai Taluk, Viruthunagar 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 mining plan, the the lease period is for 5 years, total quantity of recoverable should not exceed 2,68,666 cu.m. of rough stone and 1,11,000 cu.m. of gravel with the ultimate depth of pit bottom of the proposed quarry is fixed at 46m below ground level, and the annual peak production as per mining plan is 54,650cu.m of rough stone & 56,200cu.m of gravel.

Based on the presentation and document furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance,


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subject to the standard conditions as per the **Annexure** 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.
2. The PP shall furnish slope stability action plan for the planned working/ultimate benches as the depth of the proposed quarry is exceeding 40 m, before obtaining CTO from TNPCB.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
4. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 Nos of holes per round with maintaining maximum charge per delay of not exceeding 0.400 kg/round using jack hammer drilled holes (32-34 mm dia & 1.5 m length) to ensure the environmentally acceptable blasting operation. The PP shall also ensure an interval of atleast 30 minutes is maintained between these rounds of blast.
5. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 40 m, by involving a reputed Research and Academic Institution such as NIRM, IITs, NITs, Anna University, and any CSIR Laboratories etc. 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.
6. 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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7. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Govt. Higher Sec. School, Muthuramalingapuram Village before obtaining CTO from TNPCB.

Agenda No: 283-02

(File No: 8989/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 4.52.0 Ha at S.F.No. 1547, 1548/2, 1548/3, 1550/1C, 1550/2A and 1550/2B of Melmangalam Bit-II Village, Periyakulam Taluk, Theni District, Tamil Nadu by Thiru.V.Aadimoolam- for Environmental Clearance.

(SIA/ TN/ MIN/ 255302/2022 dated 05.02.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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.V.Aadimoolam has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 4.52.0 Ha at S.F.No. 1547, 1548/2, 1548/3, 1550/1C, 1550/2A and 1550/2B of Melmangalam Bit-II Village, Periyakulam Taluk, Theni 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 document furnished by the project proponent, SEAC noted that, SEIAA has not scrutinized the present application appropriately. The same project with file no.7427 (online No.142008 dated 10.02.2020) was already appraised in 209th SEAC meeting held on 09.04.2021 and 239th SEAC meeting held on 22.10.2021 and the project was not recommended by the SEAC committee. Further, it was also placed in 444th SEIAA meeting held on 07.05.2021 and the Authority unanimously accepted the recommendation of SEAC. Now the proponent has withdrawn the earlier application and filed a new application with file no.8989 (online No.255302 dated 05.02.2022) and thereby attempting to circumvent the earlier decision of SEAC and SEIAA. The EIA Coordinator ECO Tech has also disclosed


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the history of the case and hidden the facts. SEAC, therefore, decided to send the proposal back to SEIAA with the following observations.

1. To examine the system of initial scrutiny at SEIAA office and streamline the procedures.
2. SEIAA may call for the explanation of the EIA coordinator for hiding the facts.

Agenda No: 283-03

(File No: 9000/2022)

Proposed Rough Stone quarry lease over an extent of 2.00.0 Ha at S.F.No. 1(Part-3) of Kolamanjunur Village, Thandrapattu Taluk, Tiruvannamalai District, Tamil Nadu by Thiru.R.Balachandar - for Environmental Clearance.

(SIA/ TN/ MIN/ 255774/2022 dated 09.02.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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.R.Balachandar has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 2.00.0 Ha at S.F.No.1(Part-3) of Kolamanjunur Village, Thandrapattu Taluk, Tiruvannamalai 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 project proponent, SEAC noted that in G.O(MS) No. 295 dated 03.11.2021 the Government in Industries Department has notified the following Rules specifying certain conditions for permitting mining activities near ecologically sensitive areas.

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


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corridors and Reserve Forests”.

The Committee noted that the Ponnaiyur Reserve Forest is located at a distance of 400m from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, **decided not to recommend the proposal.**

Agenda No: 283-04

(File No: 9013/2022)

Proposed Gravel quarry lease over an extent of 2.02.5 Ha at S.F.No. 73/7, 75/2, 3A, 3B, 3C, 3D, 6A, 6B, 6C, 6D, 6E, 6F,7, 9A, 9B & 9C of Kattukottaipatti Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Thiru.P.Sithanathan - for Environmental Clearance.

(SIA/ TN/ MIN/ 257405/2022 dated 19.02.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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.P.Sithanathan has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 2.02.5 Ha at S.F.No. 73/7, 75/2, 3A, 3B, 3C, 3D, 6A, 6B, 6C, 6D, 6E, 6F., 7, 9A, 9B & 9C of Kattukottaipatti Village, Kulathur Taluk, Pudukkottai 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 document furnished by the project proponent, SEAC noted that, mining plan was approved for 2 years but the mining plan submitted by project proponent is for 3 years. Hence the project proponent shall furnish revised mining plan.

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


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Agenda No: 283-05

(File No: 9024/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.74.0 Ha at S.F.No. 319/5B2 & 319/6A2 of Akilandapuram Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu by Tmt.S.Ramalakshmi - for Environmental Clearance.

(SIA/ TN/ MIN/ 257718/2022 dated 21.02.2022)

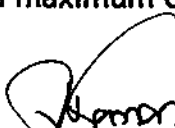
The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tmt.S.Ramalakshmi has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 1.74.0 Ha at S.F.No. 319/5B2, 319/6A2 of Akilandapuram Village, Kayathar Taluk, Thoothukudi 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 mining plan, the the lease period is for 5 years, the total quantity of recoverable should not exceed 67305 cu.m of rough Stone and 21390 cu.m of gravel with the ultimate depth of pit bottom of the proposed quarry is fixed at 28m below ground level and the annual peak production is 15,055cu.m of rough stone & 6,270cu.m of gravel.

Based on the presentation and document furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance**, subject to the standard conditions as per the **Annexure** 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.


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2. The PP shall furnish slope stability action plan incorporating the haul road ramp keeping the benches intact for the proposed quarry before obtaining CTO from TNPCB.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
4. The PP shall carry 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 20 m from the blast site.
5. 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.
6. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Government Adi Dravidar Higher Secondary School, Karisalkulam & T.D.T.A Primary School, before obtaining CTO from TNPCB.

Agenda No: 283-06

(File No: 9084/2022)


Proposed Silica Sand Quarry lease over an extent of 4.38.5Ha at S.F.No. 187/1, 200/1A of Thambikkottai Vadakadu Village, Pattukottai Taluk, Thanjavur District, Tamil Nadu by Thiru. A. Muthukumar- for Environmental Clearance.

(SIA/ TN/ MIN/ 260479/2022 dated 05.02.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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. A. Muthukumar has applied for Environmental Clearance for the proposed Silica Sand Quarry lease over an extent of 4.38.5Ha


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at S.F.No. 187/1, 200/1A of Thambikkottai Vadakadu Village, Pattukottai Taluk, Thanjavur 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 document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.

- (i) The project proponent shall furnish documentary evidence from the DFO, Thiruvavur showing the distance between the nearest R.F [Point Calimere (A) Sanctuary] and the proposed quarry site.
- (ii) As there is a railway track nearby, NOC from the Railway Authorities.

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

Agenda No: 283-07

(File No: 9086/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 2.32.0 Ha at S.F.No. 631/2, 632 (P) & 649 (P) of Madukkarai Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by Thiru. D.Jayakumar - for Environmental Clearance.

(SIA/ TN/ MIN/ 261380/2022 dated 12.03.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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. D.Jayakumar has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 2.32.0 Ha at S.F.No. 631/2, 632 (P) & 649 (P) of Madukkarai Village, Madukkarai Taluk, Coimbatore 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 document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.


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- (i) The project proponent shall furnish documentary evidence from the concerned District Forest Officer showing the distance between the nearest R.F and the proposed quarry site.

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

Agenda No: 283-08

(File No: 9088/2022)

Proposed Gravel quarry lease over an extent of 2.50.0 Ha at S.F.No. 202/3 (Part) of Jeyamkondanilai Village, Singampunari Taluk, Sivagangai District, Tamil Nadu by Thiru. D. Ragupandiyar- for Environmental Clearance.

(SIA/ TN/ MIN/ 261283/2022 dated 11.03.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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. D. Ragupandiyar has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 2.50.0 Ha at S.F.No. 202/3 (Part) of Jeyamkondanilai Village, Singampunari Taluk, Sivagangai 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 document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.

The project proponent shall furnish soil analysis report obtained from **anyone of the following test laboratories** authorized by the Director of Geology and Mining.

1.	Regional Testing Laboratory, Mellur, Industrial Estate, K. Pudur, Madurai – 625020.
2.	Department of Civil Engineering, National Institute of Technology, Trichy – 620015.
3.	Department of Civil Engineering, Govt College of Engineering, Karuppur, Salem – 636011.


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

Agenda No: 283-09

(File No: 9090/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 2.13.0 Ha at S.F.No. 795 (P) of Manakadavu Village, Dharapuram Taluk, Tiruppur District, Tamil Nadu by Thiru. R.Vasudevan- for Environmental Clearance.


(SIA/ TN/ MIN/ 260444/2022 dated 08.03.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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.R.Vasudevan has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 2.13.0 Ha at S.F.No. 795 (P) of Manakadavu Village, Dharapuram Taluk, Tiruppur 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 mining plan the the lease period is for 5 years. The production for the five years states that the total quantity of recoverable should not exceed 2,36,460 cu.m of Rough Stone and 25,920 cu.m of Gravel with the ultimate depth of pit bottom of the proposed quarry is fixed at 47m (2m Gravel + 45m Rough stone). The Annual peak production as per mining plan is 48,360cu.m of rough stone & 11,040cu.m of gravel.


Based on the presentation and document furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance**, subject to the standard conditions as per the **Annexure** of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The PP shall furnish slope stability action plan incorporating the haul road ramp accessibility keeping the benches intact for the planned quarry working as the depth of the proposed quarry is exceeding 40 m, before obtaining CTO from TNPCB.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
4. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 Nos of holes per round with maintaining maximum charge per delay of not exceeding 0.375 kg/round using jack hammer drilled holes (32-34 mm dia & 1.5 m length) to ensure the environmentally acceptable blasting operation. The PP shall also provide an interval of atleast 30 minutes between these rounds of blast.
5. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 40 m, by involving a reputed Research and Academic Institution such as NIRM, IITs, NITs, Anna University, and any CSIR Laboratories etc. 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.
6. 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.
7. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Government Higher Secondary School, Therpatti, Tiruppur before obtaining CTO from TNPCB.


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Agenda No: 283-10

(File No: 9093/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 4.50.0 Ha at S.F.No. 299,300 & 301 of Keelavallanadu Village, Srivaikundam Taluk, Thoothukudi District, Tamil Nadu by TVL.V.V.Minerals - for Environmental Clearance.

(SIA/ TN/ MIN/ 261642/2022 dated 16.03.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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, TVL.V.V.Minerals has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 4.50.0 Ha at S.F.No. 299,300 & 301 of Keelavallanadu Village, Srivaikundam Taluk, Thoothukudi 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.

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: 283-11

(File No: 9095/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 2.65.18 Ha at S.F.No. 789/1B of Kulathur Village, Srirangam Taluk, Tiruchirappalli District, Tamil Nadu by Thiru. S.Vijayakumar - for Environmental Clearance.

(SIA/ TN/ MIN/260219/2022 dated 15.03.2022).

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


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The SEAC noted the following:

1. The Project Proponent, Thiru. S.Vijayakumar has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 2.65.18 Ha at S.F.No. 789/1B of Kulathur Village, Srirangam Taluk, Tiruchirappalli 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 mining plan the the lease period is for 5 years. The production for the five years states that the total quantity of recoverable should not exceed 366028 cu.m. of Rough Stone and 12852 cu.m. of Gravel with the ultimate depth of pit bottom of the proposed quarry is fixed at 23m below ground level. The Annual peak production as per mining plan is 7,50,10 cu.m of rough stone & 4998cu.m of gravel.

Based on the presentation and documents furnished by the project proponent, SEAC noted that the Precise Area Communication Letter contained a condition that for first 3 years only gravel must be mined, which was not reflected in the mining plan. SEAC, therefore, decided to direct the PP to get either a revised Precise Area Communication Letter or a revised Mining Plan revised. On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.

Agenda No: 283-12


(File No: 9096/2022)

Proposed Rough Stone quarry lease over an extent of 1.62.0 Ha at S.F.No. 770/1 & 770/2 of Nathathahalli Village, Nallampalli Taluk, Dharmapuri District, Tamil Nadu by Thiru. G.Murugesan - For Environmental Clearance.

(SIA/ TN/ MIN/ 261734/2022 dated 15.03.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:


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

Based on the presentation and documents furnished by the project proponent, SEAC noted that in G.O(MS) No. 295 dated 03.11.2021 the Government in Industries Department has notified the following Rules specifying certain conditions for permitting mining activities near ecologically sensitive areas.

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

The Committee noted that the Nathathahalli Reserve Forest is located at a distance of 76m from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, **decided not to recommend the proposal.**

Agenda No: 283-13

(File No: 9097/2022)

Proposed Earth quarry lease over an extent of 2.08.0 Ha at S.F.No. 91/7 & 92/1 of Keezhaiyur Village, Sirkali Taluk, Mayiladuthurai District, Tamil Nadu by Thiru. K.Muralitharan - For Environmental Clearance.

(SIA/ TN/ MIN/ 260003 /2022 dated 05.02.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The Project Proponent, Thiru. K.Muralitharan has applied for Environmental Clearance for the proposed Earth quarry lease over an extent of 2.08.0 Ha at S.F.No. 91/7&92/1 of Keezhaiyur Village, Sirkali Taluk, Mayiladuthurai 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 mining plan the the lease period is for 2 years. The production for the two years states that the total quantity of recoverable should not exceed 19,056 cu.m of Earth with an ultimate depth of mining is 2m below ground level. The Annual peak production as per mining plan is 10,576cu.m of Ordinary Earth.

Based on the presentation and document furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance**, subject to the standard conditions as per the **Annexure** 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.**
2. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. 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.


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4. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m 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.
5. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management such that the neighbouring agricultural activities are environmentally protected.
6. The proponent shall ensure that the transportation of the quarried materials 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 earth; and transport of the material will be carried out in accordance with the IRC Guidelines in order to comply with traffic congestion and density.
7. 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.
8. As accepted by the Project Proponent the CER cost is Rs. 3 lakhs and the amount shall be spent for the committed activities for Government Higher Secondary School, Kaveryppumpattinam before obtaining CTO from TNPCB.

Agenda No: 283-14

(File No: 9098/2022)

Proposed Earth quarry lease over an extent of 0.93.75 Ha at S.F.Nos. 121/9B, 122/11A, 122/4B, 122/4C, 122/7A1, 122/8A, 122/8B1, 122/8B2, 122/11B, 122/7B & 127/1B1 of Velangipattu Village, Bhuvanagiri Taluk, Cuddalore District, Tamil Nadu by Tmt. B.Baby - For Environmental Clearance.

(SIA/ TN/ MIN/ 261903/2022 dated 15.03.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. The


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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. B.Baby has applied for Environmental Clearance for the proposed Earth quarry lease over an extent of 0.93.75 Ha at S.F.Nos. 121/9B, 122/11A, 122/4B, 122/4C, 122/7A1, 122/8A, 122/8B1, 122/8B2, 122/11B, 122/7B & 127/1B1 of Velangipattu Village, Bhuvanagiri Taluk, Cuddalore 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 mining plan the the lease period is for 2 years. The production for the two years states that the total quantity of recoverable should not exceed 6,901cu.m. of Earth with an ultimate depth of mining is fixed at 2m below ground level. The Annual peak production as per mining plan is 3885cu.m of Earth.

Based on the presentation and document furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance**, subject to the standard conditions as per the **Annexure** 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.**
2. The project proponent shall plant trees in the ratio of 1:10.
3. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
4. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and


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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.
7. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m 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.
8. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management such that the neighbouring agricultural activities are environmentally protected.
9. The proponent shall ensure that the transportation of the quarried materials 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 earth; and transport of the material will be carried out in accordance with the IRC Guidelines in order to comply with traffic congestion and density.
10. 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.
11. As accepted by the Project Proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the committed activities for Government Primary School, Athiyanallur Velangipattu Village before obtaining CTO from TNPCB.

Agenda No: 283-15

(File No: 9099/2022)


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Proposed Earth quarry lease over an extent of 1.40.84 Ha at S.F.Nos. 69/1A, 69/1B and 69/1C of Chinnakumatti Village, Bhuvanagiri Taluk, Cuddalore District, Tamil Nadu by Thiru. A. Rajaraman - For Environmental Clearance.

(SIA/ TN/ MIN/ 261673/2022 dated 14.03.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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. A. Rajaraman has applied for Environmental Clearance for the proposed Earth quarry lease over an extent of 1.40.84 Ha at S.F.Nos. 69/1A, 69/1B and 69/1C of Chinnakumatti Village, Bhuvanagiri Taluk, Cuddalore 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 mining plan the the lease period is for 2 years. The production for the two years states that the total quantity of recoverable should not exceed 18,848 cu.m of Earth with an ultimate depth of mining is 2m below ground level. The Annual peak production as per mining plan is 9768 cu.m of Earth.


Based on the presentation and document furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance**, subject to the standard conditions as per the **Annexure** 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.
2. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.


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3. 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.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
5. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m 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.
6. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management such that the neighbouring agricultural activities are environmentally protected.
7. The proponent shall ensure that the transportation of the quarried materials 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 earth; and transport of the material will be carried out in accordance with the IRC Guidelines in order to comply with traffic congestion and density.
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 to the EMP as committed.
9. As accepted by the Project Proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the committed activities for Panchayat Union Primay School, Chinnakumatti Village, Bhuvanagiri Taluk, Cuddalore before obtaining CTO from TNPCB.


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Agenda No: 283-16

(File No: 9100/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.21.5 Ha at S.F.No. 469/1B1 of Kolathupalayam Village, Dharapuram Taluk, Tiruppur District, Tamil Nadu by Thiru. R.Palanisamy - for Environmental Clearance.

(SIA/ TN/ MIN/ 260543/2022 dated 08.03.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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. R.Palanisamy has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 1.21.5 Ha at S.F.No. 469/1B1 of Kolathupalayam Village, Dharapuram Taluk, Tiruppur 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 document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.

- (i) The project proponent shall furnish documentary evidence from the concerned District Forest Officer showing the distance between the nearest R.F and the proposed quarry site.
- (ii) The project proponent shall submit slope stability plan.
- (iii) The project proponent shall furnish certified compliance report obtained from the Integrated Regional Office of MoEF &CC, Chennai (or) concerned TNPCB office.

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

Agenda No: 283-17

(File No: 9101/2022)


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Proposed Gravel quarry lease over an extent of 1.23.0 Ha at S.F.No. 213/3A of Naduveerapattu Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu by Thiru. M.Ramalingam - For Environmental Clearance.

(SIA/ TN/ MIN/ 261620/2022 dated 14.03.2022)

The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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.M.Ramalingam has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 1.23.0 Ha at S.F.No. 213/3A of Naduveerapattu Village, Cuddalore Taluk, Cuddalore 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 document furnished by the project proponent, SEAC noted that the project proponent have submitted application for depth of mining as 4m below ground level. As per MoEF OM dated 24th June 2013, *"The borrowing/excavation activity shall be restricted to a maximum depth of 2m below general ground level at the site"*. Hence the Project proponent shall submit a revised mining plan accordingly.

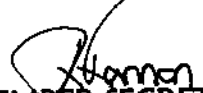
On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.

Agenda No: 283-18

(File No: 9105/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.41.0 Ha at S.F.No. 285/3A, 285/3B, 285/4 & 285/6 of Rayandapuram Village, Thandarampattu Taluk, Tiruvannamalai District, Tamil Nadu by Thiru.M.Kalaiyarasu - For Environmental Clearance.

(SIA/ TN/ MIN/ 262532/2022 dated 19.03.2022)


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The proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. 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.M.Kalaiyarasu has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 1.41.0 Ha at S.F.No. 285/3A, 285/3B, 285/4 & 285/6 of Rayandapuram Village, Thandarampattu Taluk, Tiruvannamalai 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 mining plan the the lease period is for 10 years. The production for the five years states that the total quantity of recoverable should not exceed 1,18,775 cu.m. of Rough Stone and 21,826 cu.m. of Gravel with the ultimate depth of pit bottom of the proposed quarry is fixed at 42m below ground level. The Annual peak production as per mining plan is 26,125cu.m of rough stone & 8,736cu.m of gravel.

Based on the presentation and document furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance**, subject to the standard conditions as per the **Annexure** 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.**
2. **The PP shall furnish slope stability action plan for the planned working/ultimate benches as the depth of the proposed quarry is exceeding 40 m, before obtaining CTO from TNPCB.**
3. **The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation**


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as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.

4. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 Nos of holes per round with maintaining maximum charge per delay of not exceeding 0.400 kg/round using jack hammer drilled holes (32-34 mm dia & 1.5 m length) to ensure the environmentally acceptable blasting operation. The PP shall also ensure an interval of atleast 30 minutes is maintained between these rounds of blast.
5. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 40 m, by involving a reputed Research and Academic Institution such as NIRM, IITs, NITs, Anna University, and any CSIR Laboratories etc. 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.
6. 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.
7. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the committed activities for Panchayat Union Primay School, Royandapuram Village, before obtaining CTO from TNPCB.

Agenda No: 283-TA -01


(File No: 8746/2021)

Proposed Sand quarry over an extent of 4.90.0 Ha located at S.F.No: 1 (P) Mullangudi Village, Thiruvudaimaruthur Taluk, Thanjavur District, Tamil Nadu by the Executive Engineer, PWD/WRD– For Environmental Clearance.

(SIA/TN/MIN/206481/2021 Dtt.11.8.2021)

The proposal was placed for appraisal in 262nd SEAC Meeting held on 8.4.2022. The details of the project furnished by the proponent are given in the website (parivesh. nic.in).

The SEAC noted the following:


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1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance for the Sand quarry over an extent of 4.90.0 Ha located at S.F.No: 1 (P) Mullangudi Village, Thiruvudaimaruthur Taluk, Thanjavur 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.

Based on the presentation and documents furnished by the project proponent, SEAC decided to make an on- site - spot inspection to assess the status of the site by a sub-committee to be constituted by the SEAC.

The Sub-Committee of SEAC visited the project site on 24.05.2022 to collect the factual information and took photographs of the salient features of the site to get the first-hand information of the site. The Sub-Committee inspection report was placed in this 283rd meeting of SEAC held on 09.06.2022 and the observations of the Sub-committee are as follows,

Observations Made by the Sub-Committee:

- Proposed sand quarry is located about 1.2km north of Mullangudi village, in the riverbed of the Kollidam river. It is close to the right bank of the Kollidam river.
- It was informed by the PWD officials that a temporary road with biodegradable materials will be formed along the banks of the river to transport quarried sand.
- Thick bushes of grass (probably Cyperus spp) are found in and around the proposed quarry.
- It is located approximately 3.57 km downstream of the Lower Anicut and approximately 1.87 km upstream of the first infiltration well of a series of infiltration and collection wells.
- According to the TWAD Board, the following Infiltration and Collection wells are present in the downstream of the proposed quarry.

- 5 Infiltration wells namely, Sirukattur Infiltration wells (4.5 m diameter and 11.0 m depth)


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- 1 Collection well namely, Achalpuram Collection well (6.0 m diameter and 12.0 m depth)
- 1 Collection well namely, Kuchipalayam Collection well (6.0 m diameter and 12.0 m depth)
- 5 Infiltration wells namely, Eyyalur Infiltration wells (4.5 m diameter and 11.0 m depth)
- All these wells are located on the northeast side of the proposed Mullangudi sand quarry.
- The distance between these wells and the proposed quarry is given in Table.

	Sirukattur infiltration well					Achalpuram Collection well	Kuchipalayam Collection well	Eyyalur infiltration well				
We ll No	1	2	3	4	5	1	1	1	2	3	4	5
	Approximate distance from the proposed Mullangudi Sand Quarry KM											
	1.8	1.9	2.0	2.1	2.2	3.37	4.27	4.7	4.8	4.8	4.9	5.0
	7	8	8	7	6			6	5	8	6	5

Distance between the proposed Mullangudi Sand Quarry and infiltration and collection wells located downstream of the quarry

- From these wells, drinking water is supplied to the following municipality, town Panchayats and rural households and the total number of people benefiting from this scheme is 610042.
 - 1.0 Municipality - Cuddalore
 - 2.0 Town Panchayat
 - i. Bhuvanagiri
 - ii. Parangipettai
 - 3.0 Rural habitations –
 - i) Keerapalayam union - 151 Nos
 - ii) Bhuvanagiri - 74 Nos


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- iii) Parangipettai - 138 Nos
- iv) Kurinjipadi - 120 Nos
- v) Cuddalore - 136 Nos
- vi) Kattumannarkoil - 80 Nos
- vii) Kumaratchi - 113 Nos)

- Along the proposed quarry and both upstream and downstream the bank of the Kollidam river is broad in some places and narrow in some areas. Large scale plantations of Eucalyptus and Pithecellobium dulce (Kodukapuli) are found along the bank. However, many areas are also found to be invaded by the invasive Prosopis juliflora (seemai karuvai).
- Reference to the Google map (dated 8th August 2018) indicates that a sand quarry of about 60 ha was found located close to the Sirukattur infiltration wells and Achalpuram collection well in 2018. The northern end of the quarry was located close to Sirukattur infiltration wells. This quarry is now entirely replenished with sand.
- It seems neither the Public Works Department nor the Tamil Nadu Water Supply and Drainage Development studied the impact of 2018 mines on water supply in the nearby TWAD infiltration and collection wells.

Recommendations of the Sub committee:

The SEAC sub-committee members after visiting the site recommends Environmental Clearance to the proposed mine with the following conditions:

The following recommendations of the Enforcement & Monitoring Guidelines for

Sand Mining, 2020 of the MoEFCC, Government of India (Annexure VIII Salient provision for sand mining in the state of Tamil Nadu) can be implemented.

"To monitor the groundwater level during sand quarrying operations, a network of existing wells may be established around the sand quarrying area and new piezometers must be installed at all sand quarry sites.


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Monitoring of Ground Water Quality in the vicinity (one Km radius from the sand quarrying site) shall be carried out once in two months"

In this endeavour, Groundwater Wing of the Water Resources Department of the PWD may be engaged.

Bushes of Prosopis juliflora (seemai karuvai) that encroached the bank of the Kollidam river can be removed at and near the location of the proposed sand quarry. In the Prosopis cleared places native trees, which are present in the nearby areas, can be grown.

<i>Ven maruthu</i>	<i>- Terminalia arjuna</i>
<i>Kodukkapuli</i>	<i>- Pithecellobium dulce</i>
<i>Konrai</i>	<i>- Cassia fistula</i>
<i>Nuna</i>	<i>- Morinda pubescens</i>

(Except the Kodukkapuli) all other species are there in the list of plants that are recommended by the SEAC for plantation. Since Kodakkupuli is an important plant and supports a variety of birds with its fruits, this may also be included in the list provided by the SEAC).

As per Rule 36 of the Tamil Nadu Minor Mineral Concession Rules 1959, no sand quarry should be allowed within 500 m radial distance from the location of any bridge, water supply system, infiltration well or pumping installation. The rationale for such a decision is not known. The PWD officials informed that it is only a thumb rule and it was also informed that TWAD Board officials used to request the PWD to keep the mines at least 750 m away from the infiltration and collection wells. And again, rationale behind this 750 m is also not known.

On the other hand, recharging groundwater in the river bed depends on several factors such as slope, soil type, the grain size of the sand, quantity of water flow, duration of freshwater flow etc. Hence, fixing 500 m distance between sand quarries and infiltration and collection wells needs to be


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relooked. An interdisciplinary team consisting of hydrogeologists, soil scientists, PWD engineers, TWAD Board engineers, and officials may be formed. It can conduct a scientific study to decide the distance or a range of distance that should be maintained between a sand quarry and infiltration and collection wells.

Based on the recommendations of the sub-committee and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** subject to the 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.**
2. 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 the EMP as committed.
3. As accepted by the Project Proponent the CER cost is Rs.2 Lakhs and the amount shall be spent to the committed activities for Government High school, Mullangudi Village before obtaining CTO from TNPCB.
1. The proponent shall fix flag posts at boundaries for the proposed mining area covering an extent of 4.90.0 Ha. There should be no deviation/ violation with respect to the area demarcated for quarrying.
2. The depth of sand quarrying shall be restricted to 1 m from the theoretical bed level.
3. The project proponent shall monitor the groundwater level during sand quarrying operations, a network of existing wells may be established around the sand quarrying area and new piezometers must be installed at all sand quarry sites. Monitoring of Ground Water Quality in the vicinity (one Km radius from the sand quarrying site) shall be carried out once in two months by engaging Groundwater Wing of the Water Resources Department.


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4. An interdisciplinary team consisting of hydrogeologists, soil scientists, PWD engineers, TWAD Board engineers, and officials may be formed. It can conduct a scientific study to decide the distance or a range of distance that should be maintained between a sand quarry and infiltration and collection wells.

5. Bushes of *Prosopis juliflora* (seemai karuvai) that encroached the bank of the Kollidam River can be removed near the location of the proposed sand quarry. In the cleared places native trees, which are present in the nearby areas, shall be grown.

Ven maruthu – *Terminalia arjuna*

Kodukkapuli – *Pithecellobium dulce*

Konrai – *Cassia fistula*

Nuna – *Morinda pubescens*

6. To prevent dust pollution, suitable working methodology needs to be adopted taking wind direction into consideration.

7. At no cost the impact of sand mining should interfere with the habitation and cultivation in the nearby area along the river bed.

8. The mining area must be demarcated leaving at least 50m from the river embankment on either side.


9. Contouring of the river bed has to be taken to ascertain the relative levels of sand in the river and also to suggest the depth of sand mining.

10. To ensure safety measures along the boundary of the quarry site, security guards are to be engaged during the entire period of mining operation.

11. Wherever irrigation channels take off from the river within the boundary of the mining project, the mining operation should not affect the flow of water in the irrigation channels.

12. The entire sand mining operation should be as per the guidelines for sustainable sand mining issued in 2016 by the MoEF & CC, GOI, New Delhi.

13. If the agricultural activities (or) thick greeneries are being carried out around all the sand mining projects, the mining operation should not affect the


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greeneries (or) agricultural activities as well as it should not lead to depletion of water in the open wells located nearby.

14. The approach road and loading of the sand in the vehicles, movement of the vehicle should be planned and implemented in such a way that there is no noise and dust pollution in the nearby habitation. We recommend that PWD should maintain at least a safe distance of 300m from the habitations while planning the approach road and the loading operation. Wherever necessary and near the habitation in particular dust suppression measures to be adopted. While the loaded vehicle move on the road that should be fully covered with tarpaulin.
15. The pathway used by all machineries should be properly constructed and maintained by the PWD in order to avoid pollution.
16. The mining operation should be above the ground water table.
17. Adequate statutory manpower to be deployed for complying with the provisions to use heavy machineries as per Mines Safety Regulations (MCDR, 2017 & MMR, 1961).
18. The Proponent shall provide Provision of bio-toilet to be ensured and confirmed.
19. During the sand mining work, appropriate progressive mine closure activities must be implemented to restore the river bed to its original status for ensuring the free flow.

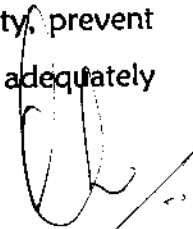

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ANNEXURE

1. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
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 i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not 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. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
6. The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.


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7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
8. The Project Proponent shall carry out slope stability study by a reputed academic/research institution such as NIRM, IIT, Anna University for evaluating the safe slope angle if the proposed dump height is more than 30 meters. The slope stability report shall be submitted to concerned Regional office of MoEF&CC, Govt. of India, Chennai as well as SEIAA, Tamilnadu.
9. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
10. 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.
11. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
12. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper escapements 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.


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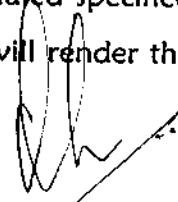

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- 13. Noise and Vibration Related:** (i) The Proponent shall carry out only the Controlled Blasting operation using NONEL shock tube initiation system during daytime. Usage of other initiation systems such as detonating cord/fuse, safety fuse, ordinary detonators, cord relays, should be avoided in the blasting operation. The mitigation measures for control of ground vibrations and to arrest fly rocks should be implemented meticulously under the supervision of statutory competent persons possessing the I / II Class Mines Manager / Foreman / Blaster certificate issued by the DGMS under MMR 1961, appointed in the quarry. No secondary blasting of boulders shall be carried out in any occasions and only the Rock Breakers (or) other suitable non-explosive techniques shall be adopted if such secondary breakage is required. The Project Proponent shall provide required number of the security sentries for guarding the danger zone of 500 m radius from the site of blasting to ensure that no human/animal is present within this danger zone and also no person is allowed to enter into (or) stay in the danger zone during the blasting. (ii) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
14. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
15. 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.
16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
17. The proponent shall ensure that the transportation of the quarried materials 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 rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

18. 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.
19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
21. 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.
22. The project proponent shall ensure that the provisions of the MMRD, 1956, 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.
23. 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.
24. 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


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Project Proponent liable for legal action in accordance with Environment and Mining Laws.

25. 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.
26. 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.
27. 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.
28. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project information as shown in the **Appendix –II** of this minute.
29. The recommendation for the issue of environmental clearance is subject to the outcome of the Hon'ble NGT, Principal Bench, New Delhi in O.A.No.186 of 2016 (M.A.No.350/2016) and O.A.No.200/2016 and O.A.No.580/2016 (M.A.No.1182/2016) and O.A.No.102/2017 and O.A.No.404/2016 (M.A.No.758/2016, M.A.No.920/2016, M.A.No.1122/2016, M.A.No.12/2017 & M.A.No.843/2017) and O.A.No.405/2016 and O.A.No.520 of 2016 (M.A.No.981/2016, M.A.No.982/2016 & M.A.No.384/2017).



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Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	வில்வம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentos</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமர
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>	Pummai	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	நருவுளி.
18	<i>Creteva adansonii</i>	Mavalingum	மாவிலங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உசா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உசா
21	<i>Diospyro sebum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றாப்பூவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயிலி
27	<i>Lannea coromandelica</i>	Odhiyam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	அரம்பா, பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Minusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுணா
38	<i>Phoenix sylvestre</i>	Eachai	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்


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40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முன்னை
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	மணிப்புங்கன் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தான் கொட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia bellerica</i>	Thandri	தாண்ட்ரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வெண் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வெப்பாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பழி


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Appendix -II

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

-----கரங்கம்

கரங்கங்களில் சுவாமி செயல்பாடுகளுக்கான கற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/____, தேதி____, கற்றுச்சூழல் அனுமதி____ தேதி வரை செல்லத்தக்கதாக உள்ளது.

பலமான பகுதி வளர்ச்சி மேம்பாட்டுக்கான கரங்கத் திட்டம்	சுவாமிநாதன் எல்லையைச் சுற்றி வேலி அமைக்க வேண்டும். கரங்கப்பாளையின் ஆழம் தரைமட்டத்திலிருந்து மீட்டர்க்கு மிகமல் இருக்க வேண்டும். காற்றில் மாக ஏற்படாதவாறு கரங்க பணிகளை மேற்கொள்ள வேண்டும். வாகனங்கள் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்கு தண்ணீரை முறைமையாக தண்ணீர் லாடிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும். இரைச்சல் அளவையும் தூசி மாகபாட்டையும் குறைப்பதற்காக சுவாமிநாதன் எல்லையை சுற்றி அடர்த்தியான பசுமை பகுதியை ஏற்படுத்த வேண்டும்.
நடப்பட்டு பராமரிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை:	கரங்கத்தில் வெடி வைக்கும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறும் மற்றும் கற்கள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உன்னிப்பாக செயல்படுத்தப்பட வேண்டும். கரங்கத்தில் இருந்து ஏற்படும் இரைச்சல் அல்ல 85 டிசிபெல்ஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும். கரங்க சட்ட விதிகள் 1955ன் கீழ் கரங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு ககதாசமுள்ள வழிப்பலகை வசதிகளை செய்து தர வேண்டும். கிராமம் அல்லது பஞ்சாயத்து வட்டியாக வாகனங்கள் செல்லும் சாலைகளை தொடர்ந்து நன்கு பராமரிக்க வேண்டும். கரங்கப்பணிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் தீர்நிலைகள் பாதிக்கப்படக் கூடாது. தீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் நிலத்தடி தீர்நிலைகளை தொடர்ந்து கண்காணிக்க வேண்டும். கரங்கத்திலிருந்து கனிம பொருட்களை எடுத்துச் செல்வது கிராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் கற்றுச்சூழல் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும். கரங்கப்பணிகள் முடிக்கப்பட்டவுடன் கரங்க மூடல் திட்டத்தில் உள்ளவாறு கரங்கத்தினை மூட வேண்டும். கரங்க நடவடிக்கைகளை முடித்தபின்னர் கரங்கப் பகுதி மற்றும் கரங்க நடவடிக்கைகளால் இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்து தாவரங்கள் விவசாயிகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பசுமைப்பகுதியை உருவாக்க வேண்டும். முழுமையான நிபந்தனைகளை அறிய பாரிவேஷ் (http://parivesh.nic.in) என்கிற இணையதளத்தைப் பார்வையிடவும். மேலும் எந்தவித கற்றுச்சூழல் சார்ந்த புகார்களுக்கு சென்னையில் உள்ள கற்றுச்சூழல் மற்றும் வன அமைச்சகத்தின் ஒருங்கிணைந்த வட்டார அலுவலகம்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாக கட்டுப்பாடு வாரியத்தின் மாவட்ட கற்றுச்சூழல் பொறியாளரை அணுகவும்.

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