

**STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU**

Minutes of 334<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 2.12.2022 (Friday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects.

Agenda No: 334 – 01


(File No: 3000/2022)

Existing Limestone quarry lease over an extent of 26.14.5 Ha at S.F.Nos. 1,3,4 (P)& 137, 141, 143-146, 153, 154 of Karuppur Senapathy & Kilapaluvur Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu by M/s Chettinad Cement Corporation Ltd – For Extension of validity of Environmental Clearance. (SIA/TN/MIN/293440/2022, dated: 31.10.2022)

The proposal was placed in this 334<sup>th</sup> meeting of SEAC held on 02.12.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The project proponent gave detailed presentation. SEAC noted the following:

1. The Proponent, M/s Chettinad Cement Corporation Ltd has applied seeking Extension of validity of Environmental Clearance for the Existing Limestone quarry lease over an extent of 26.14.5 Ha at S.F.Nos. 1,3,4 (P)& 137, 141, 143-146, 153, 154 of Karuppur Senapathy & Kilapaluvur Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR issued in MoEF&CC vide Lr No. J-11015/77/2013-IA. II (M) Dated: 24.07.2013.
4. EC issued vide Lr No. SEIAA-TN/F.No.3000/2013/EC-40/1(a)/ARY/2016 dated:27.04.2016 and its validity expires on 26.04.2023.
5. **Mining Lease** for Limestone & Marl over an extent of 26.14.5 Ha of patta and Poramboke lands in Karuppur Senapathy & Kilapaluvur Village, Ariyalur Taluk and District has been accorded sanction for a period of 50 years by the Industries (MMA.2) Department, Govt of Tamil Nadu vide G.O (Ms) No. 133, dated. 17.10.2016 as per sub-section (2) of section 8A of the MMDR


  
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Amendment Act, 2015 after the acceptance of the recommendations of the District Collector, Ariyalur and the Commissioner of Geology & Mining.

6. No conventional Drilling & Blasting operation has been carried out in the mine as they practice non-conventional breakage methodologies using the rock breakers (or) rippers ensuring the eco-friendly mining operation.
7. Garland drainage has been created along the periphery of the mine boundary with adequate dimensions ensuring the proper flow of surface water precipitated before it is let off into the surrounding areas.
8. Green belt has been developed along the safety barrier of the mine and also along the haul roads apart from the backfilled dump areas fulfilling the number of tree plantation as specified in the previous EC.
9. The haul roads have been constructed with adequate gradient as per the DGMS norms and provided with adequate dust control measures through water sprinklers.
10. Proper CTO has been obtained as per the EP Act, 1986 which is valid until 31.03.2024.
11. Due to non-availability of NBWL clearance, the mining operations have started only in 2019 even though the EC was granted in 2015 which was then executed on 27.04.2016.
12. The mine is located about 7.3 kms away from the Eco Sensitive Zone boundary of the Karaivetti Birds Sancturay and hence it does not require wildlife Clearance from the Standing Committee of NBWL. as per the MoEF & CC Notification S.O. 1909 (E), dated. 31.05.2019
13. Past Production for the period from 2019-2020 to 2021-2022 for which the permit issued details have been issued by the concerned AD (Geology & Mining), Ariyalur, vide letter No. Rc.No. 2659/G&M/2008, dated. 19.07.2022.
14. Review of Mining Plan along with Progressive Mine Closure Plan prepared under Rule 23 of MCDR'2017 which was approved by the competent authority has been furnished detailing the existing land use patterns during the Modified Mining Plan period including the conservation of top soil, utilization of waste for back filling, etc.

  
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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 Extension of validity of Environmental Clearance for quantity of 1.355 million tonnes of Limestone and 0.71 million tonnes of Marl maintaining an ultimate depth of 18m BGL, 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 validity of prior Environmental Clearance granted for this mining project shall be effective 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 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.
3. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate bank account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
4. As a part of fulfilling the CER, the proponent shall deposit Rs.10 Lakhs in consultation with the DFO, Ariyalur for the Karaivetti Bird Sanctuary towards its environmental conservation measures.
5. The proponent shall provide toilet facilities with adequate maintenance to schools as identified by the PP.

**Agenda No. 334 - 02.**

**File No.3864/2022**

Extension of Environmental Clearance issued for the Rough stone quarry over an extent of 1.29.5Ha at SF.No. 1{p}, bit-7 Kondamanaickenpatti Village, Namakkal Taluk, Namakkal District, Tamil Nadu by Thiru P Palanisamy – Extension of Environmental Clearance. (SIA/TN/MIN/293204/2022, dt:20.10.2022).

  
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The proposal was placed in this 334<sup>th</sup> meeting of SEAC held on 02.12.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The project proponent gave detailed presentation. SEAC noted the following:

1. The Proponent, Thiru P Palanisamyhas applied seeking Extension of validity of Environmental Clearance for the Existing Rough stone quarry over an extent of 1.29.5 Ha at SF.No. 1{p}, bit-7 Kondamanaickenpatti Village, Namakkal Taluk, Namakkal District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. EC issued vide Lr. No.SEIAA-TN/F.no.3864/1(a)/EC.No.3165/2015 dated 11.03.2016.

During the meeting the PP has not turned up ~~the~~ the meeting. Therefore SEAC decided to defer the proposal.

**Agenda No. 334 - 03.**

**File No.6742/2022**

**Amendment of Environmental Clearance for the proposed Black Granite Quarry over an extent of 30.10.5 Ha at SF.No.1, Sudanur village, Palacode Taluk, Dharmapuri District, Tamil Nadu by M/s. TamilNadu Minerals Limited– Environmental Clearance. (SIA/TN/MIN/283002/2022, dt:12.07.2022).**

The proposal was placed in the 334<sup>th</sup> SEAC Meeting held on 02.12.2022. The details of the minutes are available in the website (Parivesh.nic.in).

1. The project/activity is covered under category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The project proponent M/s. Tamil Nadu Minerals Limited has obtained Environmental Clearance vide Lr. No. SEIAA-TN/F.No.6742/EC/1(a)/5012/2020, dt: 09.03.2022 for the proposed Black Granite Quarry over an extent of 30.10.5 Ha at SF.No.1, Sudanur village, Palacode Taluk, Dharmapuri District for the production of 79,004m<sup>3</sup> of ROM Black Granite per Annum and 3,950m<sup>3</sup> of recoverable production of granite for a period of 5 years and ultimate depth is 30m.

3. Now, the project proponent (PP) M/s. TamilNadu Minerals Limited has

  
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applied for **amendment** of Environmental Clearance vide Online proposal No. SIA/TN/MIN/283002/2022 dated:12.07.2022 and requested for the **amendment** of Environmental Clearance for the following vide covering Ir. Dt:13.07.2022 for the reasons stated therein.

Production Quantity as per EC	Amendment Sought
RoM: 79,004m <sup>3</sup> per Annum Black Granite: 3950m <sup>3</sup> per Annum (5% of recovery) EC period: 5 Years.	RoM: 79,004m <sup>3</sup> per Annum Black Granite: 15800 m <sup>3</sup> per Annum (20% of recovery). EC period: 30 Years (or) life of mine whichever is earlier.

Based on the presentation made and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of amendment of Environmental Clearance for the validity period of 30 Years (or) life of mine whichever is earlier and the production quantity of RoM is 79,004m<sup>3</sup> per Annum & 15800 m<sup>3</sup> of Black Granite per Annum (20% of recovery) subject to all the conditions stipulated vide EC Lr. No. SEIAA-TN/F.No.6742/EC/1(a)/5012/2020, dt: 09.03.2022.

**Agenda No: 334-04**

**(File No: 6975/2021)**

**Proposed Rough Stone, jelly and gravel quarry lease area over an extent of 3.92.70Ha at S.F.No192(p) Kasthuriengapuram Part-II Village, Thisayanvilai Taluk, Tirunelveli District by Thiru. C.Sugu - For Environmental Clearance. (SIA/TN/MIN/59850/2019, dated: 13.01.2021).**

The proposal was earlier placed in 234<sup>th</sup> meeting of SEAC held on 22.9.2021 and subsequently in the 260<sup>th</sup> meeting of SEAC held on 01.04.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru.C.Sugu has applied for Environmental Clearance for the Rough Stone, jelly and gravel quarry lease area over an extent of 3.92.70 Ha at S.F.No 192(p) Kasthuriengapuram Part-II Village, Thisayanvilai Taluk, Tirunelveli District, Tamil Nadu.

2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as

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amended.

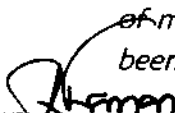
3. As per the mining plan, the lease period is for 5 years. The production for first 5 years not to exceed 9,63,820 m<sup>3</sup> of Rough stone and 1,31,704 m<sup>3</sup> of Weathered Rock and 34,776 m<sup>3</sup> of gravel. The Annual peak production as per mining plan is 1,94,270 m<sup>3</sup> of Rough stone (5<sup>th</sup> year), 1,31,704 m<sup>3</sup> of Weathered Rock (1<sup>st</sup> year) and 34,776 m<sup>3</sup> of gravel (1<sup>st</sup> year) with proposed depth of 65m(BGL).
4. ToR was issued by SEIAA-TN vide Lr. No. SEIAA-TN/F.No .6975/ SEAC/ToR-678/2019 dated 11.12.2019.
5. Public hearing conducted on 15.12.2020. The Minutes of the public hearing received from TNPCB vide dated: 05.01.2021

Earlier, this proposal was placed in the 234<sup>th</sup> meeting of SEAC held on 22.9.2021. (Ref. minutes of 234<sup>th</sup> meeting of SEAC vide item no. 234-16). SEAC recommended the proposal for grant of Environmental Clearance under violation subject to the certain conditions stated therein. Subsequently the subject was placed before the 504<sup>th</sup> Authority meeting held on 05.05.2022. The Authority noted that the following:

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

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

*"The Project proponent has furnished the above said detail to SEIAA-TN on 19.03.2021 and SEAC observed that the AD(Mine)reported excess quarrying of minerals beyond the approved quantity and a fine of Rs.13,83,976 has been levied for the same vide District Collector's Notice No. M2/35490-*

  
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*2/209 dated: 19.08.2020. In this regard, the proponent has remitted the said fine vide challan no.50 Dt: 24.08.2020 (Submitted receipt of fine remitted)."*

- iv) Also, it was observed that as per MoEF&CC Notifications dated 14.03.2017 and 08.03.2018, the application of the project proponent does not fall within the Window period (or) prior to the window period.
- v) The Hon'ble Madurai Bench of Madras High Court (Special original Jurisdiction) in the WP(MD) No.11757 of 2021 and WMP(MD) No. 9241 of 2021 vide order Dt: 15.07.2021 has issued interim stay for the office memorandum (O.M) Dt: 07.07.2021 (SoP for Identification and handling of Violation cases under EIA 2006 in compliance to order of Hon'ble NGT in O.A. No.34/2020). Further, O.M Dt: 28.01.2022 states that final decision may have been taken in accordance with the Orders/Rules prevailing prior to 07<sup>th</sup> July 2021.

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

SEAC observed the following:


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

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

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

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

Proponent furnished his reply vide letter dated 26.09.2022. Hence the subject was placed in the 319<sup>th</sup> meeting of SEAC held on 12.10.2022. The Committee noted that

  
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the proponent has not turned up for the meeting and the EIA Coordinator requested for time. Hence, the Committee decided to defer the proposal.

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

After detailed discussions, the SEAC decided to take up the subject for further deliberations subject to the outcome of the court case filed before the Hon'ble High Court of Madras (Madurai Bench) vide *W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India challenging the SoP for violation proposals dated 07<sup>th</sup> July 2021* and in the meanwhile, to call for the following additional particulars from the Proponent.

1. Supplementary EIA Report & EMP for stipulating appropriate (i) Damage assessment (II) Remedial Plan and (iii) Community Augmentation Plan.
2. Project Proponent shall remit the penalty imposed by the Department of Geology & Mining and furnish the NoC/Past Production details for the quarry operated.
3. The original approval letter obtained from the competent authority for the Modified Mining Plan submitted for the proposed quarry.

**Agenda No: 334-05**

**(File No: 7908/2022)**

**Proposed Rough Stone quarry Lease over an extent of 1.00.0 Ha at S.F.No. 135 (Part-2) in Iynkunam Village, Kilpennathur Taluk, Tiruvannamalai District, Tamilnadu by Tvl.City Blue Metal- For Environmental Clearance. (SIA/TN/MIN/57120/2020 dated 09.03.2022)**

The proposal was placed in 334<sup>th</sup> meeting of SEAC held on 02.12.2022. The details of the project are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, **Tvl.City Blue Metal** has applied for Environmental Clearance for the proposed Rough Stone quarry Lease over an extent of 1.00.0 Ha at S.F.No. 135 (Part-2) in Iynkunam Village, Kilpennathur Taluk, Tiruvannamalai District, Tamilnadu.
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. The salient features of the project are as follows:

  
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S. No	Details of the Proposal	
1	Name of the Owner/Firm	Tvl.City Blue Metal, Managing Partner, Thiru.Alaudeen Batcha S/o.Dhasthagir, Iynkunam, Kilpennathur Taluk, Tiruvannamalai District - 606 611.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone Quarry
3	S.F No. Of the quarry site	135 (Part- 2)
4	Village in which situated	Iynkunam
5	Taluk in which situated	Kilpennathur
6	District in which situated	Tiruvannamalai
7	Extent of quarry (in ha.)	1.00.0Ha (Govt. Poramboke land)
8	Period of quarrying proposed	5 years
9	Type of mining	Opencast Mechanized Mining
10	Production (Quantity in m <sup>3</sup> )	3,18,600cu.m of Rough stone & 7623cu.m of Topsoil
11	Latitude & Longitude of all corners of the quarry site	12°15'51.01"N to 12°15'55.63"N 79°09'43.30"E to 79°09'48.20"E
12	Top Sheet No.	57 P/03
13	Man Power requirement per day:	30 Nos.
14	Precise area communication approved by the District Collector with date	Na.Ka.En.50/Kanimam/2020, dated:04.03.2020
15	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	Roc. No.50/Kanimam/2020, dated:15.07.2020
16	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression 3. Green Belt	6.5 KLD 0.9 KLD 3.1 KLD 2.5 KLD
17	Power requirement	2,58,390 Liters of HSD for entire project life
18	Depth of quarrying	71m (46m AGL + 25m BGL)
19	Depth of water table	56m-52m
20	Project Cost (excluding EMP cost)	Rs.62,30,000/-
21	EMP cost	Capital Cost: Rs. 17,02,000 /- Recurring Cost: Rs.19,38,110/-
22	500m cluster letter issued by Assistant Director, Dept. of Geology and Mining with date	Roc. No.50/Kanimam/2020, dated: 15.07.2020
23	VAO certificate regarding habitations in 300m radius	Letter dated 04.07.2020

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24	ToR issued details	Lr.No.SEIAA-TN/F.No.7908/SEAC/ToR-871/2020 dated:12.03.2021.
25	Public hearing conducted on	11.12.2021
26	EIA report submitted on	28.03.2022

4. As per the mining plan, the lease period is for 5 years. The mining plan is for the period of Five years. The total production for 5 years not to exceed **3,18,600m<sup>3</sup> of Rough stone & 7623m<sup>3</sup> of Topsoil** with an ultimate depth of 71m (46m above ground level and 25m below ground level).

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity as stipulated in the following table, 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:

Details	Original Reserves as per Approved Mining plan (Mineable Reserves & Year wise productions)	Depth and Reserves as approved by SEAC
Depth in mts	76m (1m top soil+70m rough stone) (46m agl + 25m bgl)	71m (1m top soil+70m rough stone) (46m agl + 25m bgl)
Rough stone	3,21,400	3,18,600m <sup>3</sup>

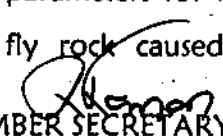
1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and

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Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.

4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall use the area of excavation shown in section along X1-Y1 & C-D in the 'Year wise Production Plan' of the Mining Plan for the construction of ramp accessibility in the proposed quarry following the DGMS Haul Road guidelines provided under MMR 1961 without deviation.
7. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
8. Since a temple is located at a distance of 120 m, the PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
10. Since few habitations are situated at a distance range of 300 m to 700 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate

  
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controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – 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.

11. 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.
12. 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.
13. 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.
14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
17. 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 (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-CEG Campus, 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 without any deviation.

18. 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.

19. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent towards the Government Higher Secondary School, Iynkunam, Kilpennathur Taluk, Tiruvannamalai District for the following activities as committed, before obtaining CTO from TNPCB.

S.No	Description	CER Cost (In Rs.)
1	Renovation of existing toilets.	3,50,000/-
2	Providing Incinerator to girls toilet.	15,000/-
3	Providing Environment related books.	30,000/-
4	Tree Plantation in and around school (300 nos.).	80,000/-
5	Installation of R.O unit for drinking purposes.	25,000/-
	Total	5,00,000/-

**Agenda No: 334- 06.**

**(File No.8289/2021)**

**Proposed Earth Quarry lease over an extent of 2.46.5Ha at SF.No. 52/1(P), 52/2(P), 52/6(P), 53/4A(P), 53/4B(P), 53/12(P), 53/13(P), 53/14(P), 53/16(P), 53/17(P), 53/18(P), 54/21(P)& 55/9(P) of Mandaikadu Village, Kalkulam Taluk, Kanniyakumari District, Tamil Nadu by Thiru.S.Britto Santhakumar - for Environmental Clearance. (SIA/TN/MIN/196284/2021, dt: 05.02.2021)**

The proposal was placed in this 334<sup>th</sup> Meeting of SEAC held on 02.12.2022. 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.S.Britto Santhakumar applied for Environmental Clearance for the Proposed Earth Quarry lease over an extent of 2.46.5Ha at SF.No. 52/1(P), 52/2(P), 52/6(P), 53/4A(P), 53/4B(P), 53/12(P), 53/13(P), 53/14(P), 53/16(P), 53/17(P), 53/18(P), 54/21(P)& 55/9(P) of Mandaikadu Village, Kalkulam Taluk, Kanniyakumari District, Tamil Nadu.

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2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the precise area communication the lease period is 2 years. The mining plan is for the period of Two Years and the production quantity is 18238 m<sup>3</sup> of Earth & the annual production should not exceed 9119 m<sup>3</sup> of Earth and the depth of mining upto 5m AGL.

Based on the documents presentation made by the proponent, SEAC after detailed discussions decided not to recommend this project proposal considering that the site is located in an ecologically rich area with rich vegetation and depletion of fertile topsoil will lead to environmental degradation to flora and fauna in and around the area.

Agenda No: 334-07  
(File No: 8676/2020)

Proposed Brick Earth quarry lease over an extent of 1.22.4 Ha at S.F.No. 86, 87/1B & 87/2B of Athangikavanur Village, Uthukkottai Taluk, Thiruvallur District, Tamil Nadu by Thiru.P.Jayakumar- for Environmental Clearance. (SIA/TN/MIN/187205/2020 dated 09.12.2020)

The proposal was earlier placed in the 288<sup>th</sup> meeting of SEAC held on 23.6.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.P.Jayakumar has applied seeking Environmental Clearance for the proposed Brick Earth quarry lease over an extent of 1.22.4 Ha at S.F.No. 86, 87/1B & 87/2B of Athangikavanur Village, Uthukkottai Taluk, Thiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. As per mining plan, the lease period is for 1 year, the total quantity of recoverable should not exceed 8,364 cu.m of Brick Earth with an ultimate depth of mining is 1m below ground level.

Based on the presentation and document furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for producing the total quantity of not exceeding 8,364 cu.m of Brick Earth for one

  
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year by maintaining an ultimate depth of 1m below ground level, 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. 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.
2. The PP shall install brick kiln in situ (within the proposed site itself) and transport of material outside the project site is not permitted.
3. As accepted by the Project Proponent the CER cost is Rs. 1 lakh and the amount shall be spent to the committed activities for Government Higher secondary School, Athangikavanur Village before obtaining CTO from TNPCB.

Subsequently, the subject was placed in the 533<sup>rd</sup> meeting of SEIAA held on 18.07.2022. After detailed deliberation, the Authority decided to refer back the proposal to SEAC for the following reasons:

1. Details pertaining to the fire wood to be used in the in-situ brick kiln such as type fire wood, quantity, where it is sourced from etc shall be furnished.
2. Study report on impact of Brick kiln on the surrounding area and impact on livelihood.
3. The EMP cost shall include the cost of restoration of the project site in full.
4. Quantum of Brick that can be made from the mined Brick Earth.

The proposal was placed for reappraisal in the 305<sup>th</sup> meeting of SEAC held on 23.08.2022. Proponent stated that the quarried earth will be used for the brick kiln owned by him which is located nearby and submitted the license issued by the competent authority. The Committee directed the Proponent to furnish the copy of valid license for operating the Brick Kiln owned by him, since the validity has expired. On receipt of the details sought, the Committee will deliberate further.

The Proponent furnished the details sought vide letter dated 07.09.2022 and hence the subject was placed before the Committee in its 316<sup>th</sup> meeting held on 30.09.2022.

Based on the presentation and document furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the excavation not exceeding 8,364 cu.m of Brick Earth to an ultimate depth of 1m BGL

  
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subject to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the specific conditions stated therein.

Subsequently, the subject was placed in the 562nd meeting of SEIAA held on 25.10.2022 & 26.10.2022. The Authority noted that the subject was placed in the 316<sup>th</sup> meeting of SEAC held on 30.09.2022 and that the committee has furnished its recommendation for the grant of Environmental Clearance for the project subject to the conditions stated therein.

After detailed deliberation, the Authority decided to refer back the subject to SEAC stating that, the revenue records pertaining to the project site reveal that the nature of land is "Najai Land".

Now, the proposal was placed in this 334<sup>th</sup> meeting of SEAC held on 02.12.2022. The SEAC noted that the nature of land is classified as "Nanjai land" which means it shall be utilized for the agriculture activities only and industrial activities are not permitted. Mining earth up to a depth of 2m will erode the precious top soil and will be detrimental to the proposed site as well as to the nearby agricultural lands. The Committee, therefore, decided to withdraw the recommendations already made in the in the 288<sup>th</sup> and 316<sup>th</sup> meeting and to not recommend project proposal for environmental clearance.

**Agenda No: 334-08**


**(File No: 8686/2021)**

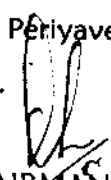
**proposed of Rough stone & Gravel Quarry lease over an extent of 2.50.0Ha in S.F.Nos. 180/4, 180/5, 180/8, 180/9, 180/10 & 180/11 of Periyavenmani Village, Maduranthagam Taluk, Kanchipuram District, Tamil Nadu by Thiru.S.Raju - for Environmental Clearance. (SIA/TN/MIN/401729/2022 Dated 29.09.2022)**

The proposal was placed in this 334<sup>th</sup> Meeting of SEAC held on 02.12.2022. The details of the project furnished by the proponent are available in the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)).

**The SEAC noted the following:**

1. The Project Proponent, Thiru.S.Raju has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 2.50.0 Ha at S.F.Nos.180/4, 180/5, 180/8, 180/9, 180/10 & 180/11 of Periyavenmani Village, Maduranthagam Taluk, Kanchipuram District, Tamil Nadu.

  
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2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR was issued - Lr. No. SEIAA-TN/F.No.8686/SEAC/ToR-1045/2022 Dated: 27.01.2022
4. Public hearing was conducted on Dated: 14.06.2022.

The SEAC noted that the EIA Coordinator was not available, hence the committee decided to defer the proposal.

**Agenda no: 334 – 09**

**File No: 8689/2021**

**Proposed Rough Stone quarry lease over an extent of 0.67.50 Ha at S.F.No.301/1A, 301/1B and 301/1C of Ariyur Village, Vellore Taluk, Vellore District, Tamil Nadu by Thiru.P.Boopalan for Environmental Clearance. (SIA/TN/MIN/222830/2021 dated: 02.08.2021)**

The proposal was placed in this 334<sup>th</sup> Meeting of SEAC held on 02.12.2022. 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.Boopalan has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 0.67.50Ha at S.F.No. 301/1A, 301/1B and 301/1C of Ariyur Village, Vellore Taluk, Vellore 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 lease period is for 5 years. The total quantity of recoverable should not exceed 49,835 cu.m of Rough Stone with an ultimate depth of mining is 31m below ground level. The Annual peak production as per mining plan is 10070m<sup>3</sup> of Rough stone (5<sup>th</sup> Year).
4. The area has been quarrying operation earlier and EC issued vide SEIAA. Lr.No.SEIAA-TN/F.No.3097/EC/1(a)/2351/2014 dated: 15.09.2015 for the production 29628 m<sup>3</sup> of Rough stone to depth of 12m BGL for a period of 5 years. the existing pit is 11m BGL.
5. Earlier, this proposal was placed for appraisal in the 288<sup>th</sup> meeting of SEAC

  
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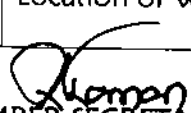
  
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held on 23.06.2022. Based on the presentation made by the proponent, the SEAC decided to call for the following details from the PP.

- The PP shall furnish the certified compliance report obtained from MoEF&CC/TNPCB on the existing EC issued.

6. Again, this proposal was placed in the 318<sup>th</sup> Meeting of SEAC held on 07.10.2022. 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.

Sl. No	Details of the Proposal	
1.	Name of the Owner / Firm	Thiru.P.Boopalan S/o.Palani No.22/14, Murugan Kovil Street Chitteri Vellore Taluk Vellore District
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough Stone Quarry
3.	S.F No. of the quarry site with area break-up	301/1A, 301/1B and 301/1C
4.	Village in which situated	Ariyur
5.	Taluk in which situated	Vellore
6.	District in which situated	Vellore
7.	Extent of Quarry (in ha.)	0.67.5 Ha (Patta Land)
8.	Period of Quarrying proposed	5 years
9.	Type of Mining	Opencast Semi mechanized mining
10.	Production (Quantity in m <sup>3</sup> )	49835 m <sup>3</sup> of Rough Stone
11.	Annual Peak	10070m <sup>3</sup> of Rough stone (5 <sup>th</sup> Year)
12.	Latitude & Longitude of all corners of the quarry site	12° 51' 41.31" N to 12° 51' 45.48" N 79° 06' 43.31" E to 78° 06' 46.40" E
13.	Topo sheet No.	57-P/01
14.	Man power requirement per day:	16 Employees
15.	Precise Area Communication approved by the Assistant Director, Geology & Mining,.	Rc. No. 102/2020(Mines) dated 20.01.2021
16.	Mining plan approved by the Assistant Director, Geology & Mining	Rc. No. 102/2020(Mines) dated 24.02.2021
17.	500mts letter approved by the Assistant Director, Geology & Mining	Rc. No. 102/2020(Mines) dated 01.07.2021
18.	Location of Water Tank/Water body	One is located @ 30 m and another one is located @ 200 m.

  
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19.	Water requirement: 1. Drinking (in KLD) 2. Dust Suppression (in KLD) 3. Green Belt (in KLD)	1.72 KLD 0.72 KLD 0.5KLD 0.5 KLD
20.	Power requirement: a. Domestic purpose b. Machinery works	TNEB -
21.	Depth of Mining	31m BGL (including existing pit – 11m)
22.	Depth of Water table	56m BGL
23.	Project cost	Rs. 1,24,70,000/-
24.	EMP cost	Capital cost- Rs. 10,09,000/- Recurring cost/annum- Rs. 12,27,675/-
25.	CER cost	Rs.5 lakhs
26.	VAO letter dated	30.04.2022

Now, the PP had submitted the certified compliance report obtained from MoEF&CC vide E.P/12.1/2022-23/SEIAA/95/TN/933 dated: 05.09.2022 on the existing EC issued. Hence, the proposal was placed in the 334<sup>th</sup> Meeting of SEAC held on 02.12.2022. 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 total quantity of 49,835 cu.m of Rough Stone with maintaining the ultimate depth upto 31m BGL and however, the annual peak production shall not exceed 10070 cu.m of Rough Stones** 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 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.
3. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.

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4. The proponent shall construct 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/map showing the same before obtaining the CTO from TNPCB.
5. The Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) and a suitable settling/precipitation tank shall be constructed to received such run-off water.
8. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia& 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
10. No 'Deep-hole large diameter drilling and blasting' shall be carried out in the proposed quarry.
11. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP

shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

12. Since few habitations are situated at a distance range of 1 km from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in the cluster by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, 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.
13. The PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
14. 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.
15. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
16. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
17. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and

should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.

20. 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.

21. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government Higher Secondary School, Pennathur village as committed, before obtaining CTO from TNPCB.

**Agenda No: 334-10**

**(File No: 8790/2020)**

**Proposed Rough Stone quarry Lease over an extent of 2.22.1 Ha at S.F.No. 1061/4B(P), 1062/1A(P), 1B(P) & 2B(P) in Thiyanadurgam Village, Shoolagiri Taluk, Krishnagiri District, Tamilnadu by Thiru.V.Jayaprakash– For Environmental Clearance. (SIA/TN/MIN/229415/2021 dated 15.09.2021)**

The proposal was placed in 334<sup>th</sup> meeting of SEAC held on 02.12.2022. The details of the project are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru.V.Jayaprakash has applied for Environmental Clearance for the proposed Rough Stone quarry Lease over an extent of 2.22.1 Ha at S.F.No. 1061/4B(P), 1062/1A(P), 1B(P) & 2B(P) in Thiyanadurgam Village, Shoolagiri Taluk, Krishnagiri District, Tamilnadu.
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.

During the meeting, the proponent was not present for the meeting, and hence SEAC after discussions, decided to defer the proposal.

**Agenda No: 334-11**

**(File No: 8839/2021)**

**Proposed Rough Stone and gravel quarry Lease over an extent of 1.20.0 Ha at S.F.No. 151/2A3 in Bogampatti Village, Suler Taluk, Coimbatore District, Tamilnadu by Thiru.A.Velusamy– For Environmental Clearance.**

  
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(SIA/TN/MIN/233396/2021 dated 08.10.2021)

The proposal was placed in 334<sup>th</sup> meeting of SEAC held on 02.12.2022. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru.A.Velusamy** has applied for Environmental Clearance for the proposed Rough Stone and gravel quarry Lease over an extent of 1.20.0 Ha at S.F.No. 151/2A3 in Bogampatti Village, Sulur Taluk, Coimbatore District, Tamilnadu.
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 project are as follows:

S. No	Details of the Proposal	
1	Name of the Owner/Firm	Thiru.A.Velusamy S/o.Arunachala Gounder No.1/7, Trichy Road Kangeyampalayam, Sulur Taluk, Coimbatore District-641401
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone & Gravel
3	S.F No. Of the quarry site	151/2A3
4	Village in which situated	Bogampatti
5	Taluk in which situated	Sulur
6	District in which situated	Coimbatore
7	Extent of quarry (in ha.)	1.20.0Ha
8	Period of quarrying proposed	5 years
9	Type of mining	Opencast Mechanized Method of Mining
10	Production (Quantity in m <sup>3</sup> )	18,320m <sup>3</sup> of Rough stone
11	Latitude & Longitude of all corners of the quarry site	10°54'40.07"N to 10°54'45.21"N 77°06'09.08"E to 77°06'13.88"E
12	Top Sheet No.	58 – F/01
13	Man Power requirement per day:	14 Nos.
14	Precise area communication issued by the District Collector with date	Rc.No.636/mines/2017 dated:21.08.2017
15	Mining Plan approved by the Asst. Director, Dept. of Geology and Mining with date	Rc.No.636/mines/2017, Dated:28.12.2020
16	Water requirement: 1. Drinking & domestic purposes	3.2 KLD 0.7 KLD

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	2. Dust suppression	1.5 KLD
	3. Green Belt	1.0 KLD
17	Power requirement	14,656 Liters of HSD for entire project life
18	Depth of quarrying	32m (2m Gravel + 30 m Rough Stone)
19	Depth of water table	70-65m
20	Project Cost (excluding EMP cost)	Rs. 26,51,000/-
21	EMP cost	Capital cost : 15,84,000/- Recurring cost:11,18,917/-
22	500m cluster letter issued by Asst. Director, Dept of Geology and Mining with date	Rc.No.636/mines/2017, Dated:28.12.2020
23	VAO certificate regarding habitations in 300m radius	Letter dated 01.09.2021

Based on the presentation and documents furnished by the project proponent, **considering the safety aspect** SEAC decided to recommend the proposal for the grant of Environmental Clearance by restricting the production quantity & operations as given in the following table, for a period of 5 years, 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:

Sanctioned Quantity as per the Mining Plan		Quantity approved by the SEAC
Total Production Quantity	18,320m <sup>3</sup> of Rough stone	16,795 cu.m of rough stone
Ultimate Pit Depth	32 m	27

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 inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the

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4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
7. Since the habitations are located at a distance of 320 m, the PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
8. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – 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.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.

  
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10. 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.
11. 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.
12. 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.
13. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
16. 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.
17. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent towards the Panchayat Union Middle School, Bogampatti, for the following activities as committed, before obtaining CTO from TNPCB.

S.No	Description	CER Cost INR
1	Construction of two classrooms and compound wall.	Rs. 5,00,000/-
2	Painting for classrooms & providing printer & wardrobes.	
3	Providing Environmental related books to school library.	
4	Plantation along the school boundary (100 nos.).	
5	Renovation of existing toilets.	

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Agenda No: 334-12

(File No: 8855/2021)

Proposed rough stone and gravel quarry lease area over an extent of 2.12.5 Ha at S.F.No.532/2C, 533/1,533/2, 533/3,533, Gopalapuram Village Vembakottai Taluk Virudhunagar District, Tamil Nadu by Thiru.A.Seethakumar- For Environmental Clearance. (SIA/TN/MIN/233636/2021 Dt. 19.10.2021)

Earlier, this proposal was placed in 272<sup>nd</sup> SEAC Meeting held on 13.5.2022. 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, Thiru.A.Seethakumar has applied for Environmental Clearance for the proposed rough stone and gravel quarry lease area over an extent of 2.12.5 Ha at S.F.No.532/2C, 533/1,533/2, 533/3,533, Gopalapuram Village Vembakottai Taluk Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 10 years. The production as per mining plan for 10 years not to exceed – 229000m<sup>3</sup> of rough stone and 58725 m<sup>3</sup> of gravel. The annual peak production as per mining plan is 23600m<sup>3</sup> of Rough stone (1<sup>st</sup> year) & 10875m<sup>3</sup> of gravel (1<sup>st</sup> year) with ultimate depth of 40.6m BGL.

Sl. No.	Details of the Proposal	
1	Name of the Owner/Firm	: Thiru. A. Seethakumar, S/o. Arumugam, D.No.543, Mappillai Subbaiah Street, Rajapalayam Town & Taluk, Virudhunagar District - 626 117.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone and Gravel
3	S.F No. of the quarry site with area break-up	: 532/2C, 533/1, 533/2, 533/3, 533/4
4	Village in which situated	: Gopalapuram
5	Taluk in which situated	: Vembakottai

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6	District in which situated	: Virudhunagar
7	Extent of quarry (in ha.)	: 2.12.5 Ha
8	Period of quarrying proposed	: 10 years
9	Type of mining	: Opencast Semi Mechanized Mining
10	Production (Quantity in m <sup>3</sup> )	: 170275 m <sup>3</sup> of Rough Stone and 58725 m <sup>3</sup> of Gravel
11	Latitude & Longitude of all corners of the quarry site	: 09°21'12.9"N to 09°21'18.7"N 77°37'14.6"E to 77°37'20.5"E
12	Topo Sheet No.	: 58-G/11
13	Man Power requirement per day:	: 12 Nos
14	Precise area communication approved by Deputy Director, Department of Geology and Mining with date	: Na.Ka.En: KV1/638/2020-Kanimam, dated:02.02.2021
15	Mining Plan approved by Deputy Director, Department of Geology and Mining with date	: Roc.No: KV1/638/2020, dated:31.03.2021
16	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression (in KLD) 3. Green Belt (in KLD)	: 2.50 KLD 0.50 KLD 1.50 KLD 0.50 KLD
17	Power requirement a. Domestic Purpose	: TNEB
18	Depth of quarrying	: 40.6m bgl
19	Depth of water table	: 45m-50m bgl
20	Whether any habitation within 300m distance	: No
21	Project Cost (excluding EMP cost)	: Rs. 1,97,43,992/-
22	EMP cost	: Rs. 6,00,000/-
23	CER cost	: Rs. 5,00,000/-
24	Assistant Director, mines 500m cluster letter	: Roc.No: KV1/638/2020, dated:31.03.2021
25	VAO certificate regarding 300m radius cluster	: Letter dated: 22.02.2021

Based on the presentation and documents furnished by the project proponent, SEAC noted that a complaint has been received stating that there are several existing & proposed quarries located within 500m radius of the proposed project but has not been taken in to account. If the allegation is found correct, then the proposal will become B1 category instead of B2. SEAC, therefore, decided to request SEIAA to get the remarks of Joint Director / Assistant Director, Department of Geology & Mining Virudhunagar on the complaint, before proceeding further in the matter.

Based on the DD mines clarification

The DD vide Lr No.NKV1/638/2020 Dt. 29.09.2022 has stated the following

இந்தியில் பார்வை 2-ல் கண்ட ஆய்வுப்பத்திரின் கடிதம் மற்றும் திரு.V.ராஜமோகன் என்பவரது ஊக்குமுலம் மற்றும் தொடர்புடைய கோப்பு ஆவணங்களை பரிசீலனை செய்தில் திரு.ஆ.சீதாக்குமார் என்பவருக்கு இவ்வலுவலகம் பார்வை 1-ல் கண்டவாறு வழங்கிய குறிப்பாணையின்படி ஆய்வுப்பம் 82 Category-ல் பரிசீலனை செய்து திரு.ஆ.சீதாக்குமார் என்பவருக்கு இசைவு வழங்கலாம் என பரிந்துரை செய்கிறேன் என பரிந்துரை செய்கிறேன்.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for 1702750m<sup>3</sup> of rough stone and 58725 m<sup>3</sup> of gravel. The annual peak production as per mining plan is 23400m<sup>3</sup> of Rough stone & 10875m<sup>3</sup> of gravel with ultimate depth of 40.6m BGL.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 vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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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5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
7. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 50 to 60 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
8. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – 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.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
10. 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.
11. 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.
12. 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.
  13. 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 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG Campus 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 without any deviation.
  14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
  15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
  16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
  17. 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.
  18. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent towards the Gopalapuram Government Middle school., for the following activities as committed, before obtaining CTO from TNPCB.

S.No.	Description	CER Cost INR
1	Renovation of existing school old building.	Rs. 5,00,000/-

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	comprising RCC roofing, flooring, Provision of Sanitation and drinking water facilities, Library books with rack facility for Gopalapuram Government Middle school.	
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**Agenda No: 334 – 13**

**(File No: 8959/2021)**

**Proposed Rough stone & gravel quarry lease over an extent of 4.85.0Ha at S.F.No.557/1, 558/1, 558/2, 559, 574 & 557/2, Gopalapuram Village, Vembakkottai Taluk, Viruthunagar District, Tamil Nadu by Thiru.V.Rajmohan –For Environmental Clearance. (SIA/TN/MIN/70376/2021 Dt. 11.08.2022)**

The proposal was placed for appraisal in 324<sup>th</sup> SEAC meeting held on 21.10.2022. The details of the minutes are given in the website(parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru.V.Rajmohan has applied for Environmental Clearance for the Rough stone & gravel quarry lease over an extent of 4.85.0Ha at S.F.No. 557/1, 558/1, 558/2, 559, 574 & 557/2, Gopalapuram Village, Vembakkottai Taluk, Viruthunagar 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. Tor Issued letter No. SEIAA-TN/F. No.8953/SEAC/ToR-1129/2021 Dated: 25.03.2022.
4. Minutes of Public hearing Conducted on 06.07.2022.

Sl. No	Details of the Proposal	
1	Name of the Owner/Firm	: Thiru. V. Rajmohan, Managing Partner, M/s.Lakshmi Blue Metals, No.540/B, Gopalapuram Main Road, Nallamanaikanpatti Post, Rajapalayam Taluk, Viruthunagar District - 626 102.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone & Gravel

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3	S.F No. Of the quarry site with area break-up	: 557/1, 558/1, 558/2, 559, 574 & 557/2
4	Village in which situated	: Gopalapuram
5	Taluk in which situated	: Vembakottai
6	District in which situated	: Virudhunagar
7	Extent of quarry (in ha.)	: 4.85.0 Ha
8	Latitude & Longitude of all corners of the quarry site	: 9°21'12.93"N to 9°21'18.32"N 77°36'49.18"E to 77°37'04.41"E
9	Topo Sheet No.	: 58 - G/11
10	Type of mining	: Opencast Semi Mechanized Mining
11	Period of quarrying proposed	: 10 years
12	Production (Quantity in m³)	: 664265m³ of rough stone, 158417m³ of gravel
13	Depth of quarrying	: 34m below ground level
14	Depth of water table	: 40m-50m BGL
15	Man Power requirement per day:	: 18 Nos.
16	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression (in KLD) 3. Green Belt (in KLD)	: 15 KLD 1.0 KLD 12.0 KLD 2.0 KLD
17	Power requirement a. Domestic Purpose	: TNEB
18	Whether any habitation within 300m distance	: No
19	Precise area communication approved by Assistant Director, Department of Geology and Mining with date	: Na.Ka.En: KV1/232/2021-Kanimam, Dated: 08.10.2021
20	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Roc.No: KV1/232/2021, Dated:21.10.2021
21	Assistant Director, mines 500m cluster letter	: Roc.No: KV1/232/2021, Dated:21.10.2021
22	VAO certificate regarding 300m radius cluster	: Letter dated: 08.10.2021
23	Project Cost (excluding EMP cost)	: Rs.1,23,14,635/-
24	EMP cost	: Rs.331
25	CER cost	: Rs.6,00,000/-

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 total excavation quantity of 664265cu.m of Rough Stone & 158417 Cu.m of

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Gravel the ultimate depth of mining upto 34m BGL with the annual peak production shall not exceed 85822cu.m of Rough Stone & 29925Cu.m of Gravel subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF & CC, in addition to the following specific conditions:

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 inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
7. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 50 to 60 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

8. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – 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.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
10. 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.
11. 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.
12. 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.
13. 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 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of

  
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Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal and Anna University – CEG Campus 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 without any deviation.

14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
17. 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.
18. As accepted by the Project proponent the CER cost is Rs. 6 lakhs and the Rs 5 lakhs amount shall be spent for the Government Middle School, Gopalapuram as committed, before obtaining CTO from TNPCB and Rs 1 lakhs shall be spent for issuing Tricycles for Physically challenged persons.

**Proposed CER activities - Government Middle School, Gopalapuram.**

Tree plantation (50 Nos.), Water supply for toilet, Provision of treated drinking water facility, Provision of desk, benches, chair, Table, Steel Cupboard, Ceiling fan, Smart Class, for students, Provision of Library rack with books

**Agenda No: 334- 14**

**(File No.8919/2021)**

**Proposed Rough Stone and Gravel quarry lease over an extent of 1.08.0 Ha in S.F.Nos. 40/6D, 42/1A, 42/7A, 42/8A1, 42/8B, 42/7B and 42/8A2, 40/5C, 40/6B & 42/1B of Sembattur Village, Pudukkotti Taluk, Pudukkottai District, Tamil Nadu by Thiru M. Bharathi for Environmental Clearance.(SIA/TN/MIN/202492/2021 Dated 09.03.2021)**

  
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Earlier, this proposal was placed in this 278<sup>th</sup> Meeting of SEAC held on 27.05.2022. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

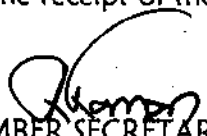
The SEAC noted the following:

1. The Project Proponent, Thiru M. Bharathi has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 1.08.0 Ha in S.F.Nos. 40/6D, 42/1A, 42/7A, 42/8A1, 42/8B, 42/7B and 42/8A2, 40/5C, 40/6B & ~~42/1B~~ of Sembattur Village, Pudukkotti Taluk, Pudukkottai District, Tamil Nadu
2. The proposed quarry/activity would fall 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 32,862 cu.m. of Rough Stone and 6,282 cu.m. of Top soil . The annual peak production 7670 cu.m. of Rough Stone(1<sup>st</sup> year) & 3720 cu.m. of Top Soil (2<sup>nd</sup> year). The ultimate depth – 32m BGL.
4. As per modified mining plan, the lease period is 5 years. The modified mining plan is for the period of five years & the production should not exceed 6868 cu.m. of Rough Stone and 2774 cu.m. of Top soil/Weathered Rock. The annual peak production shall not exceed 1436 cu.m. of Rough Stone (1<sup>st</sup> year). The ultimate depth – 14m BGL.

Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following details from the PP.

1. The PP shall furnish the certified compliance report on the existing EC issued from MOEF&CC/TNPCB.
2. The PP shall revise the mining plan as (1) the mining plan does not provide adequate buffer for the water course adjoining the site and (2) the mining plan has failed to recognize the fact that the PP has quarried the poramboke land abutting the site.

On the receipt of the same further deliberation will be done.

  
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The proposal was placed in the 524<sup>th</sup> SEIAA meeting held on 21.06.2022. The authority decided to call for the said details from the PP as per 278<sup>th</sup> Meeting of SEAC held on 27.05.2022.

The proponent has furnished reply vide Ir. Dt: 19.10.2022. In this connection, the proposal was again placed in this 334<sup>th</sup> SEAC Meeting held on 02.12.2022.

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 ultimate depth of mining upto 14m BGL and the quantity of 6868 cu.m. of Rough Stone and 2774 cu.m. of Top soil/Weathered Rock. The annual peak production shall not exceed 1436 cu.m. of Rough Stone subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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 inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory

safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.

6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
7. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level ~~level~~ (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
8. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – 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.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
10. 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.
11. 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.

  
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12. 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.
13. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal..
16. 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.
17. As accepted by the Project proponent the CER cost is Rs. 3 lakhs and the amount shall be spent for the Government High School, Sembattur Village as committed, before obtaining CTO from TNPCB.

Government High School, Sembattur Village
<ol style="list-style-type: none"> <li>1. Developing Sanitation &amp; Library facilities.</li> <li>2. Tree Plantation in &amp; Around the School.</li> <li>3. Environmental Awareness Sign Boards.</li> </ol>

Agenda no: 334 – 15

File No: 9053/2022

Proposed Rough Stone Quarry over an area of 1.00.0 Ha at Survey Nos. 249/1 in Veppilai Village, Kadaiyampatti Taluk, Salem District, Tamil Nadu by Thiru.R.Munirathnam for Environmental Clearance. (SIA/TN/MIN/258888/2022 dt.02.03.2022)

  
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The proposal was placed in this 334<sup>th</sup> Meeting of SEAC held on 02.12.2022. 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.Munirathinam has applied for Environmental Clearance for the Rough Stone Quarry over an area of 1.00.0 Ha at Survey Nos. 249/1 in Veppilai Village, Kadaiyampatti Taluk, Salem 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 lease period is for 5 years. The total quantity of recoverable should not exceed 111829m<sup>3</sup> of Rough stone & 6203 m<sup>3</sup> of Top Soil with an ultimate 46m BGL (1m top soil + 45m rough stone).

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: 334-16**

**(File No: 9224/2022)**

**Proposed Rough Stone and gravel quarry Lease over an extent of 2.53.50 Ha at S.F.No. 351/1 & 351/2 in Athur Village, Arakkonam Taluk, Ranipet District, Tamilnadu by Thiru.R.B.Raja- For Environmental Clearance. (SIA/TN/MIN/271091/2022 dated 04.05.2022)**

The proposal was placed in 334<sup>th</sup> meeting of SEAC held on 02.12.2022. The details of the project are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, **Thiru.R.B.Raja** has applied for Environmental Clearance for the proposed Rough Stone and gravel quarry Lease over an extent of 2.53.50 Ha at S.F.No. 351/1 & 351/2 in Athur Village, Arakkonam Taluk, Ranipet District, Tamilnadu.
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.

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

- i) The proponent shall furnish replies for the queries raised in 545th authority meeting held on 26.08.2022.
- ii) The PP shall explain the variance found in the quantities of 'weathered rock' & 'rough stone'.
- iii) The proponent shall furnish a revised mine plan approval letter obtained from Director/ Asst. Director, Department of Geology.

On receipt of the above, further deliberations will be done.

**Agenda No: 334-17**

**(File No: 9301/2022)**

**Proposed Rough Stone quarry Lease over an extent of 1.00.0 Ha at S.F.No. 139/1 (Part) in Esanai Village, Perambalur Taluk, Perambalur District, Tamilnadu by Thiru.P.Kalaiselvan- For Environmental Clearance.(SIA/TN/MIN/276144/2022 dated 22.06.2021)**

The proposal was placed in 334<sup>th</sup> meeting of SEAC held on 02.12.2022. The details of the project are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru.P.Kalaiselvan has applied for Environmental Clearance for the proposed Rough Stone quarry Lease over an extent of 1.00.0 Ha at S.F.No. 139/1 (Part) in Esanai Village, Perambalur Taluk, Perambalur District, Tamilnadu.
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.

During the meeting, the proponent was not present for attending the meeting, and hence SEAC after discussions, decided to defer the proposal.

**Agenda No: 334-18**

**(File No: 9257/2022)**

**Proposed Construction of Residential Buildings in the name "RWD -One North" at S.F.No. 14/1A1A1 & 12/2b of Kathirvedu Village, Sembium-Redhills High Road, Madhavaram Taluk, Kolathur, Chennai District, Tamil Nadu by M/s. Ramky Wavoo Developers Pvt Ltd - For Environmental Clearance. (SIA/TN/MIN/267919/2022 dated 18.04.2022)**

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The proposal was earlier placed in the 303<sup>rd</sup> meeting of SEAC held on 18.08.2022. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Ramky Wavoo Developers Pvt Ltd has applied seeking Environmental Clearance for the proposed construction of Residential Buildings in the name "RWD -One North" at S.F.No. 14/1A1A1 & 12/2B of Kathirvedu Village, Sembium-Redhills High Road, Madhavaram Taluk, Kolathur, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006, as amended.

Salient Features of the Proposal			
No	Description	Details	
1.	Name of the Project	Proposed Construction of Residential Building Complex "RWD One North" by M/S. RAMKY WAVOO DEVELOPERS PVT LTD	
2.	Location	S. F. No. 14/1A1A1 & 12/2B, Kathirvedu Village, Madhavaram Taluk, Thiruvallur District, Tamil Nadu	
	Latitude & Longitude	13°8'45.18"N	80°12'19.96"E
		13°8'44.76"N	80°12'21.38"E
		13°8'41.12"N	80°12'20.91"E
		13°8'41.26"N	80°12'17.95"E
		13°8'41.98"N	80°12'16.69"E
		13°8'42.75"N	80°12'16.51"E
		13°8'42.80"N	80°12'19.45"E
3.	Type of Project	B2 Category 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006, as amended	
4.	Brief Description of the project	Proposal involves the construction of 4 Blocks namely Block-A (73 Dwelling Unit), Block B (65 Dwelling Unit) & Block C (91 Dwelling Unit) comprising of Combined Basement Floor + Stilt Floor + 13 Floors for Residential Development and	

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		Block-D comprising of Combined Basement Floor + Ground Floor + 3 Floors for Super Market, Multipurpose Hall and Indoor Games & Gym and total dwelling unit of 229 Nos. The revised Built -up area is 35084.03 Sq. m and there is no change in the plot area.																								
5.	Total Area (in sq. m)	9564 Sqm <table border="1"> <thead> <tr> <th>Details</th><th>Area(Sq.m)</th><th>%</th></tr> </thead> <tbody> <tr> <td>Total Land Area</td><td>9564.00</td><td>100</td></tr> <tr> <td>Ground coverage for proposed building</td><td>3099.28</td><td>32.40</td></tr> <tr> <td>Roads and Pavements area</td><td>2531.99</td><td>26.47</td></tr> <tr> <td>Surface parking area</td><td>822.80</td><td>8.60</td></tr> <tr> <td>STP, Solid Waste Disposal and Other Utilities Area</td><td>431.71</td><td>4.52</td></tr> <tr> <td>Green Belt Development</td><td>1721.24</td><td>18.00</td></tr> <tr> <td>OSR Area</td><td>956.48</td><td>10.00</td></tr> </tbody> </table>	Details	Area(Sq.m)	%	Total Land Area	9564.00	100	Ground coverage for proposed building	3099.28	32.40	Roads and Pavements area	2531.99	26.47	Surface parking area	822.80	8.60	STP, Solid Waste Disposal and Other Utilities Area	431.71	4.52	Green Belt Development	1721.24	18.00	OSR Area	956.48	10.00
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7.	No. of dwelling units	Dwelling Units – 229																								
8.	Cost of Project	Rs. 101 Crore																								
9.	Water requirement ( in kLD) and Source	Total water requirement – 252 KLD Fresh water – 110 kLD (Domestic water requirement - 108 kLD & Swimming Pool – 2 kLD) Source – CMWSSB  Treated water – 142 kLD Treated wastewater utilized for Gardening – 9 kLD, flushing – 57kLD, HVAC -76kLD																								
10.	Sewage Generation, Treatment and Disposal	Total Sewage generation 149 kLD STP Capacity – 160 kLD Treated Sewage – 142 kLD Treated wastewater utilized for Gardening – 9 kLD, flushing – 57kLD, HVAC -76kLD																								
11.	Details of Sewage Treatment plant	Bar Screen Chamber Equalization Tank Aeration Tank Secondary Settling Tank Sludge Holding Tank Clarified Water Tank																								

		Treated Water Tank UF Treated Water Tank																												
12.	Quantity of Solid Waste generated per day, Mode of treatment and Disposal of Solid Waste	<table><tr><th>Description</th><th>Quantity (Ton/day)</th><th colspan="3">Mode of treatment / disposal</th></tr><tr><td>Biodegradable Waste (@60% of waste generated)</td><td>0.457</td><td colspan="3">Will be treated in Organic Waste Converter within the project site. Manure generated will be used for landscaping purpose within project site</td></tr><tr><td>Non-Biodegradable waste (@40% of waste generated)</td><td>0.304</td><td colspan="3">Waste will be sold to Authorized recyclers</td></tr><tr><td>STP Sludge</td><td>15 kg/day</td><td colspan="3">Will be co composted with biodegradable waste in Organic Waste Converter and the same will used as a Manure for greenbelt development</td></tr><tr><td>E-waste</td><td>5 kg</td><td colspan="3">TNPCB authorized recyclers</td></tr></table>				Description	Quantity (Ton/day)	Mode of treatment / disposal			Biodegradable Waste (@60% of waste generated)	0.457	Will be treated in Organic Waste Converter within the project site. Manure generated will be used for landscaping purpose within project site			Non-Biodegradable waste (@40% of waste generated)	0.304	Waste will be sold to Authorized recyclers			STP Sludge	15 kg/day	Will be co composted with biodegradable waste in Organic Waste Converter and the same will used as a Manure for greenbelt development			E-waste	5 kg	TNPCB authorized recyclers		
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13.	Power requirement	1987.94 kVA, Source of power – TNEB Grid																												
14.	Details of D.G. set with Capacity and Stack Height	2 Nos. of 250 kVA Stack height -as per CPCB norms																												
15.	Details of Parking Area	<table><tr><th>Details</th><th>No. of Car parking</th><th>No of two-wheeler parking</th><th colspan="2">Area allotted (Sq.m) for parking in (Sqm)</th></tr><tr><td>Total number of parking in Basements</td><td>119</td><td>--</td><td colspan="2">1512.50</td></tr></table>				Details	No. of Car parking	No of two-wheeler parking	Area allotted (Sq.m) for parking in (Sqm)		Total number of parking in Basements	119	--	1512.50																
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		Total number of parking in Ground level (Surface parking)	49	16	822.80
		Total number of parking in Stilt Level	91	97	1137.50
		Total number of parking provided	259	113	3472.8
16.	Details of Green Belt Area	Green belt development 1721.24 sq.m (18.00%) Total no. of trees proposed for plantation – 120 Nos			
17.	Provision for rain water harvesting	Total Annual Rainfall Runoff – 5947 cu.m 76 Cum Rainwater storage tank proposed in the site (3 Nos. of 25.2 Cum) Recharge pit : 1.1 m Dia and 3m Depth (22 Nos.)			
18.	EMP Cost (Rs.)	Construction Phase: Rs. 7,80,000/- Operation Phase: <ul style="list-style-type: none"> <li>Capital cost – Rs. 67,50,000/-</li> <li>Maintenance Cost/Annum – Rs. 11,29,000/-</li> </ul>			
19.	CER activities with the specific allocation of funds	Rs. 100 Lakh			

Based on the presentation and documents furnished by the Project Proponent, the Committee decided to direct the Proponent to furnish the following additional particulars:

1. Project Proponent shall furnish legality of the power of attorney.
2. Copy of 30-year-old A-register pertaining to the project site shall be furnished.
3. History of land ownership (encumbrance certificate) details to be furnished.
4. Project Proponent shall furnish the copy of land use classification certificate obtained from the competent authority.
5. Plan of sewage treatment plant shall be revised for providing ZLD along with adequacy report.
6. Details of parking area assigned for two and four wheelers shall be provided.
7. Land area split-up with percentage land area allocated to be furnished.
8. The Project Proponent shall furnish the copy of Provisional certificate for Gold rating or above issued by Indian Green Building Council for the proposed project activity.
9. The Project Proponent shall ensure 50% of the roof area is covered with solar panels for harnessing solar energy.
10. The Project Proponent shall ensure that the air-conditioners are provided are of air-cooled type.
11. Organic waste converter shall be in-place for processing bio-degradable wastes

generated by the occupants.

12. The Project Proponent shall comply with the provisions given under E-waste Management Rules, 2016 as amended.
13. 25% of land area shall be earmarked for Green-belt development excluding OSR area and the GPS coordinates of the same shall be furnished.

On receipt of the aforesaid additional details/documents from the Project Proponent the subject shall be placed before the Committee for appraisal.

Proponent furnished the above additional particulars/documents vide letter dated 21.10.2022 & 04.11.2022. Hence the subject was placed before the Committee in this 334<sup>th</sup> meeting held on 02.12.2022. Based on the presentation made and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** subject to the following specific conditions, in addition to normal conditions stipulated by MOEF & CC:

1. The design of the proposed development shall meet green building norms and should obtain a minimum of IGBC Gold ranking.
2. The Project Proponent shall adopt IGBC Net Zero Water System.
3. The Project Proponent shall provide STP of capacity 160 KLD (MBBR Technology) and **treated water** shall be utilized for **flushing, green belt and HVAC cooling** as committed.
4. The Project Proponent shall analyse the treated wastewater samples periodically through TNPCB.
5. The Project Proponent shall provide Organic Waste Converter and the generated manure shall be used for Green belt development as committed.
6. The height of the stacks of DG sets shall be provided as per the CPCB norms.
7. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. To TNPCB before obtaining CTO.
8. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Green belt development & OSR and no treated water be let out of the premise.
9. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.

  
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10. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
11. The proponent shall provide adequate Car/two-wheeler parking in stilt area.
12. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix, in consultation with the DFO, State Agriculture. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
13. Taller/one year old saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
14. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
15. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
16. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
17. No waste of any type to be disposed of in any other way other than the approved one.
18. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
19. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State



Government guidelines as committed for during SEAC meeting.

20. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
21. Half of the roof area shall be covered with Solar panels and utilization of the solar energy should not be less than 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
22. 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.
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 include demolishing plan & its mitigation measures in the EMP and adhere the same as committed.
24. The project proponent shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
25. As accepted by the Project Proponent, an amount of Rs. 100 Lakh shall be spent towards CER for the activities committed by the Proponent which includes expenditure for motorized tricycles to physically challenged persons - preference to be given to students - at a cost of Rs. 25 Lakh.

  
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Agenda No: 334-19

(File No: 9398/2022)

Proposed Rough stone, Jelly & Gravel Quarry lease over an extent of 0.79.50Ha in S.F.No. 1134 of Ethirkottai Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Thiru.I.Krishnasamy- for Environmental Clearance. (SIA/TN/MIN/282660/2022 Dated 11.07.2022)

The proposal was placed in this 334<sup>th</sup> Meeting of SEAC held on 02.12.2022. The details of the project furnished by the proponent are available in the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)).

The SEAC noted the following:

1. The Project Proponent, Thiru.I.Krishnasamy has applied for Environmental Clearance for the proposed Rough Stone, Jelly and Gravel quarry lease over an extent of 0.79.50 Ha at S.F.No.1134 of Ethirkottai Village, Vembakottai Taluk, Virudhunagar 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 lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 51,261.5 m<sup>3</sup> of Rough Stone and 693 m<sup>3</sup> of Gravel with an ultimate depth of mining 25m Below Ground level. The annual peak production 10,926.5m<sup>3</sup> of Rough Stone (1<sup>st</sup> year) and 693 m<sup>3</sup> of Gravel (1<sup>st</sup> year).

Sl. No	Details of the Proposal	
1.	Name of the Owner / Firm	Thiru.I. Krishnaswamy S/O. Sri. Irulandi Devar, 2/126, Chelliyapuram Ethirkottai Vembakottai Virudhunagar - 626 131
2.	Type of quarrying	Rough stone, Jelly & Gravel Quarry
3.	S.F No. of the quarry site	1134
4.	Village in which situated	Ethirkottai Village
5.	Taluk in which situated	Vembakottai Taluk
6.	District in which situated	Virudhunagar District
7.	Extent of Quarry (in ha.)	0.79.50Ha
8.	Period of Quarrying proposed	5 years

  
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9.	Type of Mining	Semi -Mechanized Open cast Method
10.	Production (Quantity in m <sup>3</sup> )	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 51,261.5 m <sup>3</sup> of Rough Stone and 693 m <sup>3</sup> of Gravel with an ultimate depth of mining 25m Below Ground level. The annual peak production 10,926.5m <sup>3</sup> of Rough Stone (1 <sup>st</sup> year) and 693 m <sup>3</sup> of Gravel (1 <sup>st</sup> year).
11.	Latitude & Longitude of all corners of the quarry site	9°23'02.2"N to 9°23'06.0"N 77°43'35.5"E to 77°43'35.9"E
12.	Topo sheet No.	58 - G/11
13.	Man power requirement per day:	9 Employees
14.	Precise Area Communication approved by the Assistant Director, Virudhunagar District	Na.Ka.No.KV1/1112/2021-Kanimam, Dated: 20.04.2022
15.	Mining plan approved by the Deputy Director, Department of Geology and Mining, Virudhunagar District	Roc.No. KV1/1112/2021, Dated: 05.05.2022
16.	500mts letter approved by the Deputy Director, Department of Geology and Mining, Virudhunagar District	Roc.No. KV1/1112/2021, Dated: 05.05.2022
17.	Water requirement: 1. Drinking & domestic purposed 2. Dust Suppression 3. Green Belt	2.5 KLD 0.5 KLD 1.5 KLD 1.0 KLD
18.	Power requirement: a. Domestic purpose b. Machinery works	TNEB No Electricity Needed for mining operation
19.	Depth of Mining	25m Below ground level
20.	Depth of Water table	45m-50m
21.	Whether any habitation within 300m distance	There is no habitation within radius of 300m
22.	Project cost	Rs. 21,97,315
23.	EMP cost	Rs.13.68 Lakhs Capital cost + Rs.11.78 Lakhs/annum – recurring cost
24.	CER cost	Rs. 5,00,000/-
25.	VAC letter dated	22.04.2022.

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### REVISED PRODUCTION DETAILS

YEAR	Depth as per mining plan @25m for 5 years		Revised depth @20m for 5 years	
	ROUGHSTONE (m <sup>3</sup> )	GRAVEL (m <sup>3</sup> )	ROUGHSTONE (m <sup>3</sup> )	GRAVEL (m <sup>3</sup> )
I	10,926.5	693	10,926.5	693
II	10,395.0	-	10,395.0	-
III	10,340.0	-	10,340.0	-
IV	9832.5	-	9832.5	-
V	9,767.5	-	6983.75	-
<b>Total</b>	<b>51261.5</b>	<b>693</b>	<b>48,477.75</b>	<b>693</b>

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 ultimate depth of mining upto 20m BGL and the quantity of 48,477.75 cu.m of Rough Stone & 693 cu.m of Gravel with the annual peak production of 10,926.5 m<sup>3</sup> of Rough Stone and 693m<sup>3</sup> of Gravel for a period of 5 years, 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 inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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

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

5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
7. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 50 to 60 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
8. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – 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.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
10. 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.

  
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11. 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.
12. 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.
13. 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 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG Campus 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 without any deviation.
14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
17. 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.

18. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Primary School, Upupatti Villageas committed, before obtaining CTO from TNPCB.

**Agenda No: 334-20**

(File No: 9461/2022)

Proposed Expansion of Tagore Medical & Dental College Campus with Hospital by M/s. Tagore Educational Trust at S.No: 83, 84 (P), 87/4, 87/7, 89/1B (P), 92/1, 92/2, 92/3, 92/4, 93/1, 93/2, 93/3A, 93/3B, 93/4, 94/1, 94/4, 94/5, 94/6, 94/7, 95/1A, 95/1B, 95/1C, 95/1D, 95/2, 97/1, 97/2, 97/3, 97/4, 97/5, 97/6, 97/7, 97/8, 97/9, 97/10, 97/11, 97/12A, 97/12B, 97/13, 126/1, 126/2A, 126/2B, 126/2C, 126/2D, 126/3, 126/4B, 126/8, 126/9B, 127/1, 127/2, 127/3, 127/4A, 127/4B, 127/5, 127/6, 127/7, 127/8, 127/9A, 127/9B, 127/10, 127/11, 127/12, 127/13, 127/14, 127/15, 127/16, 128/1, 129/1A, 129/1B, 129/1C, 129/2A, 129/2B, 129/3A, 129/3B, 130/1A, 130/1B, 130/2, 130/3, 130/4, 130/5A, 130/5B, 131/1, 131/2A, 131/2B, 131/3, 131/4, 131/5, 131/6, 132/1, 132/2, 132/3, 132/5, 132/6A, 132/7, 132/8, 132/9, 132/11, 132/12, 132/13A, 132/13B, 132/14, 132/16, 132/17, 132/18, 132/19A, 132/19B, 133/1A, 133/1B, 133/1DI, 133/1D2, 133/2A, 134/1A2A, 134/1A2B, 134/1B, 134/2, 136/1, 136/2, 136/3, 136/4, 136/5 at Rathinamangalam Village of Vandalur Taluk, Chengalpattu District, (Formerly Chengalpattu Taluk, Kanchipuram District) Tamil Nadu –for Environmental Clearance. (SIA/TN/MIS/290416/2020, dated: 27.08.2022)

The project proposal was earlier placed in 320<sup>th</sup> meeting of SEAC held on 13.10.2022. During the meeting, SEAC noted that the NABET consultant did not possess/submit valid Accreditation certificate. Hence the Committee decided to defer the subject directing the NABET consultant to furnish the valid Accreditation certificate.

On submission of the same, the subject was taken up for appraisal in this 334<sup>th</sup> meeting of SEAC held on 02.12.2022. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

SEAC noted the following:

1. The Project Proponent, M/s. Tagore Educational Trust has applied seeking Environmental Clearance for the proposed expansion of Tagore Medical & Dental College campus with Hospital by at Survey Nos: S.No. 83, 84 (P), 87/4, 87/7, 89/1B (P), 92/1, 92/2, 92/3, 92/4, 93/1, 93/2, 93/3A, 93/3B, 93/4, 94/1, 94/4, 94/5, 94/6, 94/7, 95/1A, 95/1B, 95/1C, 95/1D, 95/2, 97/1, 97/2, 97/3, 97/4, 97/5, 97/6, 97/7, 97/8, 97/9, 97/10, 97/11, 97/12A, 97/12B, 97/13, 126/1, 126/2A, 126/2B, 126/2C, 126/2D, 126/3, 126/4B, 126/8, 126/9B, 127/1, 127/2, 127/3, 127/4A, 127/4B, 127/5, 127/6, 127/7, 127/8, 127/9A,

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127/9B, 127/10, 127/11, 127/12, 127/13, 127/14, 127/15, 127/16, 128/1, 129/1A, 129/1B, 129/1C, 129/2A, 129/2B, 129/3A, 129/3B, 130/1A, 130/1B, 130/2, 130/3, 130/4, 130/5A, 130/5B, 131/1, 131/2A, 131/2B, 131/3, 131/4, 131/5, 131/6, 132/1, 132/2, 132/3, 132/5, 132/6A, 132/7, 132/8, 132/9, 132/11, 132/12, 132/13A, 132/13B, 132/14, 132/16, 132/17, 132/18, 132/19A, 132/19B, 133/1A, 133/1B, 133/1D1, 133/1D2, 133/2A, 134/1A2A, 134/1A2B, 134/1B, 134/2, 136/1, 136/2, 136/3, 136/4, 136/5 at Rathinamangalam Village of Vandalur Taluk, Chengalpattu District, (Formerly Chengalpattu Taluk, Kanchipuram District) Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. Tagore Medical & Dental College campus with Hospital proposed to increase bed capacity from 575 no. of beds to 818 no. of beds without any additional built-up area.

Salient Features of the Proposal		
Sl. No	Description	Details
1.	Name of the Project	"Proposed Expansion of Tagore Medical & Dental College campus with Hospital" by M/s. Tagore Educational Trust
2.	Location	S.F.No: 83, 84 (P), 87/4, 87/7, 89/1B (P), 92/1, 92/2, 92/3, 92/4, 93/1, 93/2, 93/3A, 93/3B, 93/4, 94/1, 94/4, 94/5, 94/6, 94/7, 95/1A, 95/1B, 95/1C, 95/1D, 95/2, 97/1, 97/2, 97/3, 97/4, 97/5, 97/6, 97/7, 97/8, 97/9, 97/10, 97/11, 97/12A, 97/12B, 97/13, 126/1, 126/2A, 126/2B, 126/2C, 126/2D, 126/3, 126/4B, 126/8, 126/9B, 127/1, 127/2, 127/3, 127/4A, 127/4B, 127/5, 127/6, 127/7, 127/8, 127/9A, 127/9B, 127/10, 127/11, 127/12, 127/13, 127/14, 127/15, 127/16, 128/1, 129/1A, 129/1B, 129/1C, 129/2A, 129/2B, 129/3A, 129/3B, 130/1A, 130/1B, 130/2, 130/3, 130/4, 130/5A, 130/5B, 131/1, 131/2A, 131/2B, 131/3, 131/4, 131/5, 131/6, 132/1, 132/2, 132/3, 132/5, 132/6A, 132/7, 132/8, 132/9, 132/11, 132/12, 132/13A, 132/13B, 132/14, 132/16, 132/17, 132/18, 132/19A, 132/19B, 133/1A, 133/1B, 133/1D1, 133/1D2, 133/2A, 134/1A2A, 134/1A2B, 134/1B, 134/2, 136/1, 136/2, 136/3, 136/4, 136/5 at Rathinamangalam Village of Vandalur Taluk, Chengalpattu District, Tamil Nadu.

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	Latitude & Longitude	12°51'35.03"N - 80° 8'17.29"E 12°51'37.46"N - 80° 8' 5.41"E 12°51'51.29"N - 80° 8' 8.89"E 12°51'44.39"N - 80° 8'21.19"E																											
3.	Type of Project	B2 Category 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006, as amended																											
4.	Brief Description of the project	Proposed to expand (Increase in No of Beds from 575 Nos to 818 Nos) in the Hospital building without any additional construction of buildings																											
5.	Total Area (in sq. m)	<table border="1"> <thead> <tr> <th>Details</th><th>Area (Sq.m)</th><th>%</th></tr> </thead> <tbody> <tr> <td>Ground Coverage Area</td><td>29,750</td><td>27.8</td></tr> <tr> <td>Roads and Pavements Area</td><td>11,118</td><td>10.4</td></tr> <tr> <td>Surface Parking Area</td><td>13,922</td><td>13.0</td></tr> <tr> <td>Service &amp; Utilities Area (STP, ETP, ATM &amp; OWC)</td><td>1,925</td><td>1.8</td></tr> <tr> <td>Greenbelt Area and Landscaping</td><td>36,043</td><td>33.7</td></tr> <tr> <td>OSR Area</td><td>10,700</td><td>10.0</td></tr> <tr> <td>Playground</td><td>3,499</td><td>3.3</td></tr> <tr> <td>Total Plot Area</td><td>1,06,957</td><td>100</td></tr> </tbody> </table>	Details	Area (Sq.m)	%	Ground Coverage Area	29,750	27.8	Roads and Pavements Area	11,118	10.4	Surface Parking Area	13,922	13.0	Service & Utilities Area (STP, ETP, ATM & OWC)	1,925	1.8	Greenbelt Area and Landscaping	36,043	33.7	OSR Area	10,700	10.0	Playground	3,499	3.3	Total Plot Area	1,06,957	100
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Total Plot Area	1,06,957	100																											
6.	Built up Area (in sq. m)	91,595 Sq.m																											
7.	Cost of Project	EXISTING (As per EC and Consent) - Rs. 194.11 crore AFTER EXPANSION - Rs 196.72 crore																											
8.	Water requirement (in kLD) and Source	<p>EXISTING:</p> <p>Total water- 676 kLD Fresh water- 341 kLD Recycled water – 335kLD</p> <p>AFTER EXPANSION:</p> <p>Total water- 765 kLD Fresh water-395 kLD Recycled water – 370kLD</p> <p>Primary Source: Local body</p>																											

  
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		Secondary source: Treated waste water		
9.	Sewage Generation, Treatment and Disposal	AFTER EXPANSION: Sewage Generation – 496kLD STP Capacity – 525kLD Treated sewage – 480kLD (Laundry, Green belt, Toilet flushing, avenue plantation)		
10.	Details of Sewage Treatment plant	Bar Screen Chamber Collection tank Aeration Tank Settling tank Filter press Clarified water tank Pressure Sand Filter Activated Carbon Filter Treated water tank Filter Press UV Disinfection system		
11.	Effluent Treatment Plant  Details of Effluent Treatment plant	65 kLD CAPACITY  Collection Tank Neutralization Tank Settling Tank Sludge Drying Bed Pressure Sand Filter Activated Carbon Filter Sodium Hypo Dosing System Treated Water Tank RO System		
12.	Quantity of Solid Waste generated per day, Mode of treatment and Disposal of Solid Waste:			
	Description	Existing Qty (kg/day)	After Expansion Qty (kg/day)	Mode of Treatment & Disposal
	Biodegradable Waste	1349	888	Food waste and garden waste will be treated in Organic Waste Converter within the project

				site. Manure generated will be used for gardening.
	Non-Biodegradable Waste	899	1332	Waste will be disposed to recyclers
	Bio Medical Waste	259	392	Disposed to authorized CBMWTF
	Total Waste generation	2507	2612	-
	Other wastes			
	Bio Sludge	56 (kg/day)	60 (kg/day)	Used as a Manure for greenbelt development
	Hazardous Waste	0.1 TPA	0.2 TPA	Used Oil (Category 5.1, as per Schedule-I of the Rules) - from DG sets. Disposed to Authorized Recycler
	E-Waste	1.0 TPA	1.0 TPA	Disposed to TNPCB Authorized Handlers
13.	Power requirement	Total power requirement – 1680 KVA Transformer – 2 Nos (1500 KVA – 1 No and 500 KVA – 1 No).		
14.	Details of D.G. set with Capacity and Stack Height	DG sets –Existing DG sets of 500 kVA & 250 kVA – 1 No each. Proposed DG set of 500 KVA -1 No. • Existing Stack height – 25 m		
15.	Details of Parking Area	Details	No. Of Parking Required	No of Parking Provided
		Car Parking	1000 Nos	1068 Nos
		Two Wheeler Parking	960 Nos	960 Nos
16.	Details of Green Belt Area	Greenbelt Area and Landscaping - 36,043 Sq.m (33.7%) OSR Area - 10,700 Sq.m (10.0%)		
17.	Provision for rain water harvesting	Roof Area - 29,750 Sq.m Rain water harvesting Pit (Required) - 18 Nos Rain water harvesting Pit (Existing) - 20 Nos Total Volume of 20 number of rain water recharge		

  
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		pit- 16.8 kLD Total Number of existing open well -7 Nos Total volume of the rain water harvested through open well -2967.3 kLD Rainwater collection sump – 2 Nos (2000 kL – 1 Nos & 1370 kL – 1 No) -3370 kL
18.	EMP Cost (Rs.)	Operation phase: Capital Expenses - Rs. 43.7 in lakh Operational/Maintenance Expenses (Per Annum) - Rs.160.49 lakh
19.	CER activities with the specific allocation of funds	Rs.51.84 Lakh

Based on the presentation made and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** subject to the following specific conditions, in addition to normal conditions stipulated by MOEF &CC:

1. The design of the proposed development shall meet green building norms and should obtain a minimum of IGBC Gold ranking.
2. The Project Proponent shall adopt IGBC Net Zero Water System.
3. The Project Proponent shall provide STP of capacity 525 KLD (175 KLD-3 Nos.) and the treated water shall be utilized for flushing, dust suppression and green belt/avenue plantation as committed.
4. The Project Proponent shall provide ETP of capacity 65 KLD and the treated water shall be utilized for dust suppression and avenue plantation as committed.
5. No treated water shall be discharged into proposed OSR pond.
6. The Project Proponent shall analyse the treated wastewater samples periodically through TNPCB.
7. The Project Proponent shall provide Organic Waste Converter and the generated manure shall be used for Green belt development as committed.
8. The height of the stacks of DG sets shall be provided as per the CPCB norms.
9. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. To TNPCB before obtaining CTO.
10. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Dust suppression and Green belt development and no treated water be let out of the premise.

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11. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
12. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
13. The proponent shall provide adequate Car/two-wheeler parking as committed.
14. 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. 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.
15. Taller/one year old saplings raised in appropriate size of bags, preferably eco-friendly 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.
16. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
17. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
18. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
19. No waste of any type to be disposed of in any other way other than the approved one.
20. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
21. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.

  
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22. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
23. Half of the roof area shall be covered with Solar panels and utilization of the solar energy should not be less than 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
24. 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.
25. 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 include demolishing plan & its mitigation measures in the EMP and adhere the same as committed.
26. The project proponent shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
27. As accepted by the Project Proponent, an amount of Rs. 51.84 Lakh shall be spent towards CER for the activities committed by the Proponent which includes conducting special medical camp for women residing in Tamil Nadu Slum Clearance Board Housing Complexes towards Cancer & OB&G screening/treatment at a cost of Rs. 25 Lakh.

**Agenda No: 334 – TA1**

**(File No: 8800/2021)**

**Proposed Rough stone & gravel quarry lease over an extent of 2.48.5Ha at S.F.No.567/2A, 567/2B, & 568/1B of Gopalapuram Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. P.Arumugam - For Environmental Clearance. (SIA/TN/MIN/67659/2021 Dt. 10.08.2022)**

The proposal was placed for appraisal in 324<sup>th</sup> SEAC meeting held on 21.10.2022. The details of the minutes are given in the website (parivesh.nic.in).

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**The SEAC noted the following:**

1. The project proponent, Thiru.P.Arurnugam has applied for Environmental Clearance for the Rough stone & gravel quarry lease over an extent of 2.48.5Ha at S.F.No.567/2A, 567/2B, 568/1B of Gopalapuram Village, Vembakottai Taluk, Virudhunagar 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. **Tor Issued** letter No. SEIAA-TN/F. No.8800/SEAC/ToR-1093/2021 Dated: 17.03.2022.
4. **Minutes of Public hearing Conducted on 06.07.2022.**
5. The precise area communication was issued for the period of 5 years. The approved mining plan is for the period of five years & production should not exceed 2,35,300 cu.m of Rough Stone & 52400 Cu.m of Gravel. The annual peak production is 60,500 cu.m of Rough Stone (3<sup>rd</sup> Year), & 27480 Cu.m of Gravel (1<sup>st</sup> Year). The ultimate depth is 29.5m BGL.
6. Quarrying in this lease area was earlier carried out by during earlier lease period from 15.07.2016 to 22.07.2021. Environmental clearance was obtained from SEIAA, Tamil Nadu vide letter no Lr.No. SEIAA-TN/F.No.3279/EC/1(a)/2718/2015 dated 11.01.2016 for Rough stone blue metal & Gravel quarrying at SF no 567/2A,568/1B,568/3(P), Gopalapuram village, Vembakottai taluk, Virudhunagar District, Tamil Nadu over 2.90.0 Ha of the lease area.
7. Hence, the area was earlier quarried for 4.0 m depth producing 40927 m<sup>3</sup> of Rough stone & 500 m<sup>3</sup> of Gravel and for 6.0 m depth producing 40460 m<sup>3</sup> of Rough stone with transit permits obtained from the competent authority as per the letter reported vide AD (Geology & Mining) Roc. No: KV1/159/2021, dated. 06.09.2021.

  
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Sl. No	Details of the Proposal	
1	Name of the Owner/Firm	: Thiru.P.Arumugam M/s.Selvakumar Blue Metals No.761A/15 North Street Chatrapatti Post Rajapalayam Taluk Viruthunagar District-626102
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough stone & gravel
3	S.F No. Of the quarry site with area break-up	: 567/2A, 567/2B, 568/1B
4	Village in which situated	: Gopalapuram
5	Taluk in which situated	: Vembakottai
6	District in which situated	: Virudhunagar
7	Extent of quarry (in ha.)	: 2.48.5Ha
8	Latitude & Longitude of all corners of the quarry site	: 9°21'05.80" N to 9°21'11.60"N 77°36'51.80"E to 77°36'57.70"E
9	Topo Sheet No.	: 58- G/11
10	Type of mining	: Opencast Semi-Mechanized Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m³)	: 235300 m³ of rough stone & 52400 m³ of gravel
13	Depth of quarrying	: 29.5m
14	Depth of water table	: 40-45m BGL
15	Man Power requirement per day:	: 10 Nos.
16	Source of Water Requirement	: water vendors
17	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt &Wet Drilling (in KLD)	: 3.200 KLD 1.000 KLD 1.300 KLD 0.600 KLD
18	Power requirement	: TNEB
19	Whether any habitation within 300m distance	: No
20	Precise area communication issued AD/Mines with date	: Na.Ka.No.KV1/159/2021, dated: 02.08.2021

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21	Mining Plan approved by Assistant Director Geology and Mining Mines with date	: Roc.No.KV1/159/2021, Dated: 12.08.2021
22	500m cluster letter issued by AD/Mines	Roc.No.KV1/159/2021, Dated: 06.09.2021
23	VAO certificate regarding habitation within 300m radius	Letter dated: 09.08.2021
24	Project Cost	: Rs.76.08 Lakh
25	EMP cost	: Capital Cost - Rs 16.4 lakh Recurring Cost – Rs. 83.5 Lakhs/5Years.
26	CER cost	Rs. 5.50 Lakhs
27	ToR Issued details	Tor Issued letter No. SEIAA-TN/F. No.8800/SEAC/ToR-1093/2021 Dated: 17.03.2022.
28	Public Hearing Details	Public hearing conducted on: 06.07.2022
29	EIA Report Received	EIA received on: 26.08.2022

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 total excavation quantity of 2,35,300 cu.m of Rough Stone & 52400 Cu.m of Gravel restricting the ultimate depth of mining upto 29.5m BGL considering the safety aspects with the annual peak production shall not exceed 60,500 cu.m of Rough Stone, & 27,480 Cu.m of Gravel subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF & CC, in addition to the following specific conditions:

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 mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining

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

3. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
4. The proponent shall construct 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/map showing the same before obtaining the CTO from TNPCB.
5. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
8. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
10. In case of carrying out the 'Deep-hole large diameter drilling and blasting' in the proposed quarries, the PP shall obtain prior permission from the Director of Mines Safety, Chennai Region after the commencement of mining operations under the provisions of Reg. 106 (2) (b) of MMR 1961.

11. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
12. Since few habitations are situated at a distance range of 1 km from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies in coordination with the other quarry owners located in the cluster domain on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in the cluster by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as NIRM, IIT Madras, IIT(ISM)-Dhanbad, Anna University Chennai-Dept of Mining Engg, NIT Surathkal-Dept of Mining Engg, 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.
13. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
14. 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.
15. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

16. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
17. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
18. The PP shall remove the abandoned shed situated within 300 m from the lease boundary for the safety reasons before obtaining the CTO from the TNPCB.
19. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
20. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
21. 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.
22. As accepted by the Project proponent the CER cost is Rs. 5.50 lakhs and the amount shall be spent for the Government Middle School, Gopalapuram as committed, before obtaining CTO from TNPCB.

**Proposed CER activities - Government Middle School, Gopalapuram.**

Tree plantation (50 Nos.), Water supply for toilet, Provision of treated drinking water facility. Provision of desk, benches, chair, Table, Steel Cupboard, Ceiling fan, Smart Class, for students, Provision of Library rack with books & Tricycles for Physically challenged students.

Subsequently, the proposal was placed in the 569<sup>th</sup> Authority meeting held on 22.06.2022. The authority after detailed discussions, decided to refer back the proposal after the receipt of the following additional particulars as follows.

  
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- i. A public complaint petition was received from Thiru.A Seethakumar, Gopalapuram Village, Vembakottai Taluk, Virudhunagar District Dt:04.07.2022 regarding quarrying activity of this proposal
- ii. The Project Proponent shall furnish clarification & details of action taken/ measures for the non-Compliance reported vide CCR Dt: 14.09.2022 for previous EC conditions.
- iii. The EMP cost provided greenbelt was found to be not sufficient and incorrect. In this regard, the PP shall furnish revised EMP with capital cost & recurring cost for Greenbelt including details of no. of plantation and establishment & maintenance cost.
- iv. Photographs of fencing & Green belt

The proponent has furnished reply vide lr. Dt: 27.09.2022. In this connection, the proposal was again placed in this 334<sup>th</sup> SEAC Meeting held on 02.12.2022. The committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made in 324<sup>th</sup> Meeting of SEAC held on 21.10.2022. All other conditions stipulated in the earlier minutes will remain unaltered.


  
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## ANNEXURE-I

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 Metalliferrous 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.
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 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.

  
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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	விலவம்
2	<i>Adenanthura pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	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>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon swietenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Marjallavu	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 sebenum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
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>	Odham	ஓதிரம்
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	அரம்பா, பிசிப்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
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	நடு முன்னை
42	<i>Premna tomentosa</i>	Malapoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsipium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேன்னாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவ
47	<i>Putranjaya roxburghii</i>	Karicala	கரிசலா
48	<i>Salvadora persica</i>	Uga Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manpungan, Soapukai	மணிப்புகன் சோபுகாய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strebtus asper</i>	Pirav 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 bellerica</i>	Thandri	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	புவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காய்ப்பழி

  
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## Appendix -II

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

கரங்கம்

கரங்கத்தில் சுவாமி செல்பாடுகளுக்கான கற்றுத்தழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்படும் எனது SEAC, தேதி: \_\_\_\_\_, கற்றுத்தழல் அனுமதி \_\_\_\_\_ தேதி வரை செல்லத்தக்கதாக உள்ளது.

பகலம் பகுதி வளர்ச்சி	சுவாமிநாதர் எல்லையைச் சுற்றி வேலி அமைக்க வேண்டும்.
மேம்பாட்டுக்கான கரங்கத் திட்டம்	கரங்கப்பாளையம் ஆறும் தளமட்டத்தில் இருந்து மீட்டர்க்கு மிகாமல் இருக்க வேண்டும். காற்றில் மாக ஏற்படாதவாறு கரங்க பணிகளை மேற்கொள்ள வேண்டும். வாகனங்கள் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் லைன்களின் மூலமாக அல்லப்போது தெளிக்க வேண்டும். இனதர்சல் அளவைகளும் தூசி மாகபாட்டையும் சுகாதாரத்திற்காக சுவாமிநாதர் எல்லையை சுற்றி அடர்த்தியான பகலம் பகுதியை ஏற்படுத்த வேண்டும்.
நடப்பட்டு பராமரிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை:	கரங்கத்தில் வெடி வைக்கும்பொழுது நிலத்திற்குள் ஏற்படாதவாறும் மற்றும் கற்கள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உன்னிப்பாக செயல்படுத்தப்பட வேண்டும்.
	கரங்கத்தில் இருந்து ஏற்படும் இனதர்சல் அளவு 85 டெசிபெல்ஸ் (dB) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.
	கரங்க சட்ட விதிகள் 1986ன் கீழ் கரங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கைதாழ்மூன்ற கழிப்பறை வசதிகளை செய்ய தர வேண்டும்.
	கிராமம் அல்லது பஞ்சாயத்து வட்டியாக வாகனங்கள் செல்லும் சாலைகளை தொடர்ந்து நன்கு பராமரிக்க வேண்டும்.
	கரங்கப்பணிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் நீர்நிலைகள் பாதிக்கப்படக் கூடாது.
	நீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் நிலத்தடி நீரின் தரத்தினை தொடர்ந்து கண்காணிக்க வேண்டும்.
	கரங்கத்திலிருந்து கவிம பொருட்களை எடுத்துச் செல்வது கிராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் கற்றுத்தழல் 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 செய்ய துவரங்கள் விலங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகலம்பகுதியை உருவாக்க வேண்டும்.
	முழுமையான நிபந்தனைகளை அறிய பாதிவேஷி ( <a href="http://pariveshnic.in">http://pariveshnic.in</a> ) என்பதன் இணையதளத்தைப் பார்வையிடவும். மேலும் எந்தவித கற்றுத்தழல் சார்ந்த புகார்களுக்கு சென்னைவில் உள்ள கற்றுத்தழல் மற்றும் வன அமைச்சகத்தின் ஒருங்கிணைந்த வட்டார அலுவலகம்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாக கட்டுப்பாடு வாரியத்தின் மாவட்ட கற்றுத்தழல் பொறியாளரை அணுகவும்.

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