

## STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of 307<sup>th</sup> Meeting of the State Expert Appraisal Committee (SEAC) held on 26th August 2022 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects.

Agenda No: 307-1

(File No: 7601/2022)

Proposed Laterite and Pebbles quarry lease area over an extent of 1.58.0 Ha at S.F.Nos. 145/3(P), 152/1(P), 152/3(P), 152/4(P) and 183/6 of Vilangalpattu Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu by Thiru.A.John Peter - For Environmental Clearance.(SIA/TN/MIN/ 150051/2020, dated: 11.06.2020).

Earlier, this proposal was placed in this 269<sup>th</sup> SEAC Meeting held on 5.5.2022. 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/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation & documents furnished, the Committee directed the proponent to submit the following additional details for further processing the proposal.

1. The composition/component of the minerals proposed to be quarried shall be tested in any of the laboratories authorized by the Dept of Geology & Mining as directed in the above Judgment.
2. The proponent shall produce a certificate from the Dept of Geology & Mining stating that the composition/component of the minerals proposed to be quarried does not contain sand based on the above laboratory results.
3. The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment.

On the receipt of the above documents, the proposal was again been placed in 307<sup>th</sup> Meeting of SEAC held on 26.08.2022.


  
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The SEAC noted the following:

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

Sl. No.	Details of the proposal	Data Furnished
1.	Name of the Owner / Firm	Thiru.A.John Peter No.2/80, Madha Kovil Street Sembanoor Village Karaikudi Taluk Sivagangai District - 630 313
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Laterite and Pebbles quarry
3.	S.F No. of the quarry site with area break-up	S. F. No. 145/3(P), 152/1(P), 152/3(P), 152/4(P) and 183/6
4.	Village in which situated	Vilangalpattu Village
5.	Taluk in which situated	Cuddalore Taluk
6.	District in which situated	Cuddalore District
7.	Extent of Quarry (in ha.)	1.58.0 Ha
8.	Period of Quarrying proposed	Two years
9.	Type of Mining	Opencast Mechanized Mining
10.	Production (Quantity in m <sup>3</sup> )	As per the mining plan, the lease period is for two year. The production for one year not to exceed - 26,106.3 m <sup>3</sup> of Gravel, 2,900.7 m <sup>3</sup> of Bebbles and 11,130 m <sup>3</sup> of Laterite with proposed depth of 5m (BGL). (3m above ground level + 2m below ground level)
11.	Latitude & Longitude of all corners of the quarry site	11°43'27.42"N to 11°43'31.30"N 79°39'30.96"E to 79°39'39.25"E

  
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12.	Topo sheet No.	58 - M/10
13.	Man power requirement per day:	9 Employees
14.	Precise Area Communication approved by the District Collector	Rc.No.139/Mines/2017, Dated: 29.08.2019
15.	Mining plan approved by the Deputy Director of Geology and Mining with date	Rc.No.139/Mines/2017, Dated: 06.01.2020
16.	500mts letter approved by the Deputy Director of Geology and Mining with date	Rc.No.139/Mines/2017, Dated: 21.02.2020
17.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression 3. Green Belt (in KLD)	5.2KLD 0.3KLD 1.9KLD 3.0KLD Source : From existing, bore wells and drinking water will be sourced from Approved water vendors.
18.	Power requirement: a. Domestic purpose b. Machinery works	TNEB 6690 liters of HSD will be utilized for entire project life.
19.	Depth of Mining	5m (3m above ground level + 2m below ground level)
20.	Depth of Water table	20m - 15m (20 m in Rainy Seasons and 15 m in Summer Season)
21.	Whether any habitation within 300m distance	No
22.	Project cost	Rs. 28.599 Lakhs
23.	EMP cost	Rs. 1,50,000/-
24.	CER cost	RS.2 lakhs
25.	VAO letter dated	Nil


Based on the presentation and documents furnished, SEAC decided to recommend the proposal for the grant of Environmental Clearance for **26,106.3 m<sup>3</sup> of Gravel, 2,900.7 m<sup>3</sup> of Bebbles and 11,130 m<sup>3</sup> of Laterite** with proposed depth of 5m (BGL) for the period of 2 years, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the

  
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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 the competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The proponent shall mandatorily appoint the statutory Mines Manager and the Mining Engineer in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 respectively.
3. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
5. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, dump management, dump mining, mineral transportation mode, ultimate depth of mining etc.) shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
6. 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.

  
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7. 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.
8. 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.
9. 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. 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.
10. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
11. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
12. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarries assured in the Environmental Management Plan & the approved Mine Closure Plan.
13. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.

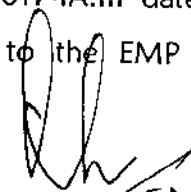
  
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14. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures 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.
15. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
16. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
17. 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.
18. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
19. 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.
20. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
21. 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.
22. 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.
23. 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.
24. 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.
25. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. The Project Proponent shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines (IBM) from time to time.
26. 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.
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. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

  
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29.As accepted by the Project Proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the committed activities as committed before obtaining CTO from TNPCB.

**Agenda No: 307-02**

**(File No: 7896/2020)**

**Proposed "Upgradation of Existing R&D facility into intermediates for API Manufacturing Unit" at S.F.No.27, Vandaloor Kelambakkam Road, Keelakottaiyur Village, Melakottaiyur Post, Kancheepuram (Now Chengalpattu) District, Tamil Nadu by M/s. Solara Active Pharma Sciences Limited - For Environmental clearance (SIA/TN/IND2/175529/2020, dated 28.1.2021)**

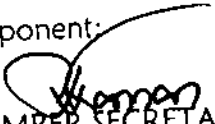
The proposal was placed in this 307<sup>th</sup> SEAC meeting held on 26.08.2022. The details of the project furnished by the proponent are available on the website (parivesh.nic.in).

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

1. The Project Proponent, M/s. Solara Active Pharma Sciences Limited has applied seeking Environmental Clearance for the proposed "Upgradation of Existing R&D facility into intermediates for API manufacturing unit" at S.F.No.27, Vandaloor Kelambakkam Road, Keelakottaiyur Village, Melakottaiyur Post, Kancheepuram (Now Chengalpattu) District, Tamil Nadu.
2. Further, the application was submitted by the Proponent as Per the Office Memorandum issued by MoEF & CC vides F.No.F.No.22-25/2)20-IA.II dated: 13.04.2020 and as per S.O. 1223(E) dated: 27.03.2020 for the projects or activities in respect of 5 (f) Active Pharmaceutical Ingredients (API) to appraise as Category 'B2' Projects.
3. Hence, the project/activity is covered under Category "B2" of Item 5(f) "Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)" of the Schedule to the EIA Notification, 2006.

Earlier, it was placed for appraisal in the 196<sup>th</sup> meeting of SEAC held on 29.01.2021 and based on the presentation made and documents furnished by the Project proponent, SEAC decided to seek the following additional details from the

Proponent:

  
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1. Proponent shall clarify whether the unit is already into commercial production of the products listed or newly proposed.
2. Physical, Chemical and Physiological properties of the products shall be furnished.
3. Production details shall only be furnished in Tonnes Per Annum.
4. Certified compliance report from TNPCB for the existing facility.
5. The proponent shall furnish the Stoichiometric material balance for all the reactions to assess the quantum of pollutant emission from the proposed project.
6. The proponent shall furnish the details of the material and source of fuel used for boilers.
7. The project proponent shall furnish the Raw materials used for the individual product along with its storage details.
8. The Project proponent shall furnish details of all the products with chemical name and formula and the reaction kinetics including the list of intermediate products.
9. The Proponent shall propose the scientific mode of disposal of spent solvents and detailed proposal for solvent recovery which is going to be exposed to atmosphere shall be furnished by the project proponent.
10. The project proponent shall submit the expected characteristics of the Effluent generated during the processes and the design of the treatment plant based on those characteristics.
11. The proponent shall submit the proposal for treatment of sewage and design of the STP.
12. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modeling for the VOC Emissions and model the same.
13. Height of the stack for the process emission and the DG Sets should be recalculated by considering the nearest tallest building as per the CPCB guidelines.
14. Status of Agitated Thin Film Dryer provided at the unit shall be furnished.

  
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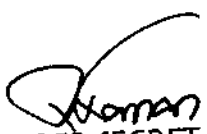
15. The proponent shall carry out the Risk Assessment Study based on the MSDS of the individual chemicals during handling/Solvent storage/Storage of chemicals.
16. The proponent shall submit the Health hazard management and industrial hygiene assessment report carried out for the employees at the existing plant.
17. The project proponent shall obtain necessary permission from Competent Authority for the extraction of Ground water.
18. The Proponent shall ensure that the Solvent storage area is not located near the boiler and the proponent shall submit the safety measures undertaken in this regard.
19. The project proponent shall furnish the detailed study report on industrial Hygienic Survey and furnish the detailed report on Occupational Health and Safety Management for the employees.
20. The Environmental Management Plan (EMP) for the proposed project shall be revised considering the above points and same shall be submitted.
21. As per the MoEF&CC Office Memorandum F.No. 22-55/2017-IA.III dated: 30.01.2020 and 20.10.2020 the proponent shall furnish the detailed EMP mentioning all the activities as proposed in the CER.

On submission of the above details, SEAC decided that an on the spot inspection shall be carried out by the subcommittee constituted by the SEAC to assess the present status of the site as this is an expansion project. Based on the inspection report by the Proponent, SEAC would further deliberate on this project and decide the further course of action.

The sub-committee constituted by the SEAC, the Sub-committee visited the site on 10.03.2021. The sub-committee submitted inspection report to SEAC on 23.06.2021.

The sub-committee inspection report was placed in this 214<sup>th</sup> SEAC meeting held on 23.06.2021. The following details were observed during the site inspection,

1. The sub-committee visited the R&D area, Effluent treatment plant, Multiple Effect Evaporator and sewage treatment plant in the unit premises.
2. The unit is functioning as an R&D unit with scale up area and has obtained Consent from TNPCB for its R&D Activities and have not obtained Environmental clearance.

  
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3. Project Proponent planning to convert their R& D facility into intermediates for API manufacturing unit within the existing premises and the same needs to be clarified by the project proponent and shall submit revised proposal for the same if any change.
4. The unit having lab facility of maximum 100 litre vessel capacity (reactor)
5. At the time of inspection STP of capacity 40 KLD and ETP of 60 KLD operating at the site
6. The flow measurement at both STP and ETP are of electronic flow meter in nature and at the time of inspection receiving flow of 10 KLD and 15 KLD respectively
7. In the STP, the aeration tank of 3m height with diffused air aeration system with recirculation sludge facility designed as extended ASP
8. The MLSS concentration in the aeration tank at the time of inspection around 2500 mg/l which needs to be build up to 3500-4000 mg/l to maintain F/M = 0.4 for effective functioning of ASP
9. The MLSS concentration in the ETP is also around 2300 mg/l needs to be build up to 3500-4000 mg/l for effective functioning of aeration system
10. The project Proponent to furnish all the reactions with stoichiometrically balanced showing molecular formula and structure clearly showing reactant and products details indicating mass balance.
11. The project proponent to furnish performance evaluation reports of STP and ETP for the last 6 months
12. The Project proponent to furnish details and the characteristics of raw influent and treated effluent for both STP and ETP along with flow measurement records for the last 6 months
13. The facilities available for checking of quality control of chemicals handled by the project proponent to be furnished
14. Details of solid and hazardous waste generated and their management to be furnished by project proponent
15. Distance between the Boiler and solvent storage tank around 750m and to relocate the solvent storage tank to possible maximum distance to avoid any risks in the future


  
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16. Salt recovered from the MEE/ATFD shall be computed and to be furnished  
17. Project proponent shall furnish Risk Assessment for 1.) In case of Hazardous 2.)

In case of Fire accidents

18. Project proponent shall submit the Ground water clearance for its proposed project form the Competent Authority
19. Report on occupational risk assessment shall be furnished: Risk ranking of chemical used based on the toxicity and exposure assessment for the hazardous chemicals (TWA or STEL measurements based on the exposure situation);
20. Health surveillance plan (Industrial Hygiene assessments) and exposure assessment specific to API exposure to be furnished from an industrial hygiene laboratory
21. Ambient and workplace VOCs signatures and level to be furnished. Bulk sample analysis to be performed
22. Water analysis of API in open well and bore well to be furnished
23. Hydrocarbon analysis from DG stack to furnished in addition to the routine parameters as per the CPCB standards
24. Height of DG stack to be in accordance to the regulation.
- Based on the inspection report and the documents furnished by the Proponent, the SEAC decided to direct the proponent to furnish the following additional particulars.
1. Project Proponent planning to convert their R& D facility into intermediates for API manufacturing unit within the existing premises and the same needs to be clarified by the project proponent and shall submit revised Form-1 for the same if any change.
  2. The project Proponent to furnish all the reactions with stoichiometrically balanced showing molecular formula and structure clearly showing reactant and products details indicating mass balance.
  3. The project proponent to furnish performance evaluation reports of STP and ETP for the last 6 months.
  4. Project proponent shall furnish Risk Assessment for 1.) In case of Hazardous 2.)  
In case of Fire accidents.

  
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5. Report on occupational risk assessment shall be furnished: Risk ranking of chemical used based on the toxicity and exposure assessment for the hazardous chemicals (TWA or STEL measurements based on the exposure situation);
6. Health surveillance plan (Industrial Hygiene assessments) and exposure assessment specific to API exposure to be furnished from an industrial hygiene laboratory.

Based on the receipt of the proponent's reply this proposal was again placed in 276<sup>th</sup> SEAC meeting held on 21.5.2022 and SEAC noted that the Aringar Anna Zoological Park, Vandaloor is located very near to the project site and hence the PP shall obtain NOC/ opinion from the Director, Aringar Anna Zoological Park, Vandaloor. The EIA Coordinator shall also submit a detailed report on the implications of setting up this unit on the Zoological Park. On receipt of these details SEAC will examine the proposal further.

The project proponent has submitted the details on 04.07.2022 to SEIAA.

Now the proposal was placed in this 307<sup>th</sup> SEAC meeting held on 26.08.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to seek the following additional details from the Proponent:

1. The proponent shall submit, in a matrix form, details of raw materials used per batch/day /month and their conversion into the final product, by product and waste generated, etc. Further, the details of the process flow diagram including the quantity of various items, the effluents, air emissions, hazardous waste generated including the quantity and their characteristics, appropriate pollution control measures contemplated for controlling each category of pollution, and the pollutants getting discharged into the environment should be furnished.
2. The details furnished in wastewater generation are not matching with presentation and Form I submitted, which need to be rectified. Even after the upgradation, the total effluent and sewage generation were found to be within the consented quantity of TNPCB. This needs to be confirmed.
3. Historical data from the electronic flow meter of STP & ETP for the past 3 years shall be furnished.

  
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4. The existing effluent generation for the R & D facility with the maximum scale of operation 100 liters, generates effluent of 10 kLD. Now, it is proposed to upgrade the existing R & D facility into intermediates for API manufacturing unit to produce 0.2975 MTPM of products and proposed to generate 12.25 kLD ( 2.25 kLD only after upgradation) of effluent only. This may be justified with a flow diagram.
5. After the upgradation, it is reported that total effluent generation will be 12.25 kLD, which will be treated in the already provided primary & secondary treatment plant followed by RO (70 kLD) and MEE ( 24 kLD). The operation methodology of the RO and MEE shall be detailed with respect to the efficiency of working. Similarly, Sewage generation will be 9.5 kLD, which will be treated through 40 kLD STP already provided. A detail of the operational methodology of STP shall be furnished.
6. The detail of disposal of waste/discarded products from the existing R&D products shall be furnished.
7. The project proponent shall have dependable water source instead of relying on groundwater.
8. Details of the discarded products in the upgradation facility shall be included in hazardous waste details. Methodology for handling the process waste, storage, and disposal shall be furnished.

On receipt of these details, SEAC will examine the proposal further.

**Agenda No: 307-03**

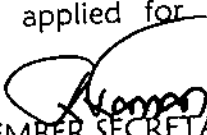
**(File No: 8698/2021)**

**Proposed Expansion of API Manufacturing facility at S.F.No: 155Pt, Plot No C-29B, SIPCOT Industrial Complex, Cheyyar Phase-II of Mathur Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by M/s.Global Pharma Health Care Private Limited- For Environmental Clearance.(SIA/TN/IND2/223559/2021 Dt. 09.02.2022)**

The proposal was placed in 307<sup>th</sup> SEAC meeting held on 26.08.2022. 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, M/s.Global Pharma Health Care Private Limited has applied for Environmental Clearance for the proposed expansion of API

  
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Manufacturing facility at S.F.No: 155Pt, Plot No C-29B, SIPCOT Industrial Complex, Cheyyar Phase-II of Mathur Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 5(f) "synthetic organic chemicals" of the Schedule to the EIA Notification, 2006.
3. As per S.O.2859(E) dated 16.07.2021, "*All proposals for projects or activities in respect of Active Pharmaceutical Ingredients(API), received from 16<sup>th</sup> July, 2021 to 31<sup>st</sup> December, 2021, shall be appraised, as Category 'B2' projects, provided that any subsequent amendment or expansion or change in product mix, after the 31<sup>st</sup> December, 2021, shall be considered as per the provisions in force at that time.*"
4. Earlier the proposal was placed in 254<sup>th</sup> SEAC meeting held on 17.03.2022. Based on the presentation and document furnished by the project proponent SEAC decided that, the project proponent shall conduct public consultation and shall submit a fresh EIA study report. On receipt of the above documents along with public hearing report and EIA study report, the committee would further deliberate on this project and decide the further course of action.

Subsequently, the proposal was placed in the 307<sup>th</sup> SEAC meeting held on 26.08.2022. The PP requested time to furnish the additional details called for in the 254<sup>th</sup> SEAC meeting held on 17.03.2022. SEAC, therefore, decided to defer the proposal.


Agenda No: 307-04

(File No: 8524/2021)

Proposed Expansion in Manufacturing of Synthetic Organic Chemicals at S.F.No.237/1 part of SIDCO Pharmaceutical Complex, Alathur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu by M/s. Pure Organic Industries- For amendment in Terms of Reference (SIA/TN/IND3/259232/2022 Dt. 02.03.2022)

Earlier, the proposal was placed for appraisal in 215<sup>th</sup> meeting of SEAC held on 29.06.2021, 449<sup>th</sup> SEIAA meeting held on 24.07.2021 and 241 SEAC meeting held on 03.11.2021. The details of the minutes are given on the website (Parivesh.nic.in).

The SEAC noted the following:

  
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1. The project proponent, M/s. Pure Organic Industries, has applied for Terms of Reference for the proposed expansion in manufacturing unit of various synthetic organic chemicals production capacity of 605000kg/month to 860800kg/month by M/s. Pure Organic Industries located at Plot No.18, SIDCO Pharmaceutical complex, S.F.No. 237/1 Part of Alathur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 5(f) "Synthetic Organic Chemicals Industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)" of the Schedule to the EIA Notification, 2006.

It was noted for this project Auto-ToR has been issued on 28.06.2021. This would have happened under the following conditions as per MoEF notification, OM dated 17<sup>th</sup> Feb2020.

- (i) No ToR has been issued by MS-SEIAA within 7days of receipt of application and there are no other environmental issues that have been emphasized.
- (ii) The file has not been transferred to SEAC by the SEIAA office for the appraisal and issue of ToR within 30 days.

The committee felt that the initial scrutiny SEIAA office should be more vigil on these particular aspects so that this kind of lapse will not occur in future.

It was noted that as per rule, Auto ToR was granted to the proponent, hence the committee has not taken up the file for appraisal to issue the ToR.

In the 449<sup>th</sup> Authority Meeting, after detailed discussions, the Authority noted the following:

1. The project is a Synthetic Organic Chemical production Industry located at Plot No.18, SIDCO Pharmaceutical complex, S.F.No. 237/1 Part of Alathur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 5(f) "Synthetic Organic Chemicals Industry.

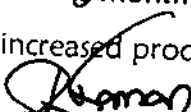


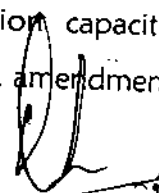
3. In the 215<sup>th</sup> meeting of SEAC held on 29.06.2021, the SEAC has reported that as per rule Auto ToR was granted, hence the committee has not taken up the file for appraisal in order to issue the ToR.
4. As para 7(II), clause (iv) of EIA Notification, 2006 as amended, The Standard Terms of References shall be issued to the following projects or activities through online mode, on acceptance of application within 7 working days, without referring to EAC or SEAC by the Ministry or SEIAA, as the case may be:
  - a. (All Highway projects in Border States covered under entry (i) and (ii) of column (3) and (4) against item 7(f) of the Schedule;
  - b. All projects or activities proposed to be located in industrial estates or parks (item 7(c) of the Schedule) approved by the concerned authorities, and which are not disallowed in such approvals; and
  - c. All expansion proposals of existing projects having earlier Prior Environmental Clearance;
  - d. Provided that EAC or SEAC may recommend additional specific Terms of Reference in addition to the Standard ToR, if found necessary, for a project or activity, within 30 days from the date of acceptance of application.
5. In this case, the Auto Terms of Reference is prescribed with public consultation through online dated 23.06.2021, while moving the proposal to SEAC through online and has been sent online to the project proponent.

In view of the above, the Authority decided to request the MS-SEIAA to refer back the proposal to SEAC with a request to furnish additional specific Terms of Reference in addition to the Standard ToR, if found necessary and send the recommendation to Authority so as to take further course of action.

The proposal was again placed for appraisal in the 241<sup>st</sup> meeting of SEAC held on 03.11.2021. SEAC after detailed deliberations decided that based on the recommendation of SEIAA, the proponent may be called for presentation for issue of additional ToR in addition to the auto standard ToR granted with public consultation.

Meanwhile, the proponent decided to increase the production capacity to 960800kg/month and hence submitted a revised application for ToR amendment for the increased production quantity.

  
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In view of this, the proposal was again placed in 307<sup>th</sup> SEAC meeting held on 26.08.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Terms of Reference subject to the following specific conditions in addition to normal conditions stipulated by MOEF&CC

1. The process flow diagram should include quantity of various items, the effluents air emissions / hazardous waste generated including the quantity and their characteristics, appropriate pollution control measures contemplated for controlling each category of pollution, the pollutants getting discharged into the environment including the quantity as well as the characteristics.
2. The EIA should cover the possible impacts starting from unloading of chemicals, storage, process and finally letting into the environment.
3. The EIA should concentrate on specific pollutants emanated from the industry in addition to the normal pollutants which are dealt with in EIA study. The project proponent should focus and concentrate on the Volatile Organic Compounds (VOC) since it is one of the primary pollutants from the industry.
4. The occupational safety and health should be detailed to include the threat from the VOC exposure. In the same way, the exposure likely to be in the Gummidipoondi Village also to be studied.
5. Green belt development and CSR activities should be as per norms.
6. The odour from the fugitive emissions will be a major problem. The project proponent should formulate measures to monitor and control the odour appropriately.
7. Details on how the reactors are cleaned and how the residues are collected and disposed shall be elaborated.
8. Any washing of reactor with water is done such waste water shall be considered as effluent and the same shall be sent to proposed ETP. Accordingly, the project proponent shall design the ETP.
9. Hazardous waste generated shall be clearly identified and shall be disposed to TNPCB authorized recyclers. The project proponent shall furnish the proposal for Hazardous waste management.
10. EIA shall contain material balance indicating any by products, solid waste, etc
11. Fugitive emissions generated from the other activities shall be collected through adequate ducting system and provided with wet scrubbers.

12. A detailed health assessment study report for the staff working in the unit and for the people living in surrounding areas shall be furnished in the EIA.
13. Details of the procedures adopted for the regular health check-ups for the staff shall be furnished.
14. Details of extra safety standards against anticipated exhaust and exposures by the project proponent to be furnished and its impact on workers including disorders and disabilities to be listed.
15. Will exposures have any impact on workers? Can it cause disorders and disabilities?
16. Impact of anticipated vapours on the migratory birds and other bio-diversity and its harmful effect.
17. Can anticipated seepages if any, cause disturbances to soil, micro flora and to plantations including agriculture and bio-diversity.
18. Proper disaster management plan considering the worst case scenario shall be furnished.
19. The physical and chemical characteristics of all the chemicals shall be listed in the EIA report

**Agenda No: 307-05**

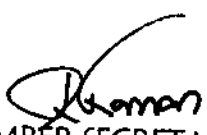
**(File No: 8211/2021)**

**Proposed Red Soil quarry lease over an extent of 1.52.0Ha at S.F.Nos. 228/1 of Iruveli Village, Kadaladi Taluk, Ramanathapuram District, Tamil Nadu by Thiru.T. Selvalingam - For Environmental Clearance (SIA/TN/MIN/191179/2021, dated: 04.01.2021)**

Earlier, this proposal was placed for appraisal in 232<sup>nd</sup> meeting of SEAC held on 15.09.2021. 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.T.Selvalingam, has applied for Environmental Clearance for the proposed Red Soil quarry lease over an extent of 1.52.0Ha at S.F.Nos. 228/1 of Iruveli Village, Kadaladi Taluk, Ramanathapuram 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.

  
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Based on the documents furnished and presentation made by the Proponent, the SEAC noted that there is an uncertainty of mining mineral in the proposed mining site whether it is Red Earth or Gravel. After detailed discussion the committee noted that the Hon'ble Madurai Bench of Madras High Court in WP (MD) No 20903 of 2016 in its order dated 12/02/2021 has ordered the following.


~~There shall not be any grant of quarry lease with~~  
composition/component of the minerals and without obtaining a report from authorized lab. The Department of Geology and Mining shall establish a lab on its own or shall authorize any lab in this regard.

~~There shall not be any quarry operation~~  
colloquial terms/local terms and any lease shall be in accordance with minerals notified under Section 3 of the MMDR Act.

~~A High Level committee has to be constituted~~  
and Experts in the said field and eminent Officers from WRO, PWD, to conduct a detailed study/survey on the possibility or the availability of the rivers and on the adjacent patta lands to the rivers and those places, where sand is available, have to be notified and declared as protected zones and there cannot be any quarry operation other than by the Government, in those notified areas.

~~The Department of Geology and Mining, to~~  
savudu quarries granted so far, in the State of Tamil Nadu, to this Court, within a period of eight weeks from the date of receipt of a copy of this order.

~~The details of all the savudu quarries shall also be furnished to the High~~  
Level Committee and the High Level Committee shall inspect those quarries to ascertain the availability of sand in those quarries. In the event of the High Level Committee ascertaining the availability of sand in the quarries, the same shall be reported to the Commissioner of Geology and Mining, marking a copy to this Court and the Commissioner shall take necessary action as against the officials, who have granted quarry permits without ascertaining the composition of minerals.

  
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~~Any quarry operations shall be permitted only as per Article 299 (1) of the Constitution of India.~~

~~The Government shall either adopt the Rules, 2017, framed by the Central Government or frame a separate Rule, as directed by the Hon'ble Supreme Court in Deepa Kumar's case, within a period of six months from the date of receipt of a copy of this order.~~

~~Whenever, SEIAA clearance is required, it shall be issued only after inspection by deputing an officer attached to SEIAA and depending upon the report, further proceedings may take place in accordance with law and there must be a mechanism to ensure the conditions of SEIAA are strictly complied with.~~

Further, amendments made to the Tamil Nadu Minor Mineral Concession Rules, 1959 vide G.O. Ms. No.213, Industries (MMC.1), Dt: 03.09.2021 state as follows;

**"44. Removal of earth for betterment of agricultural lands (1)** Notwithstanding anything contained in rule 18 and sub-rule (2) of rule 19, extraction or removal of earth in ryotwari lands manually for improvement of agricultural lands or lands that are not suitable for cultivation purpose, for an optimum depth based on the topographical condition to be specified by the Assistant Director of Geology and Mining or Deputy Director of Geology and Mining, as the case may be, **not exceeding one-and-a-half metres shall not be treated as mining activity:**

*Provided that such extraction of earth shall be carried out under a permit issued for a period not exceeding three months by the District Collector concerned:*

*Provided further that the soil excavated approximately upto 1 feet depth from the top may be used/replaced for improving the soil structure or fertility of lands where continuous cultivation is under taken for several decades without using organic manures and where soil nutrients got depleted which resulted in lesser yield:*

*Provided further that the soil extracted or removed beneath one feet depth not exceeding one-and-a-half metres may also be used for brick kilns, bedding material for soils that were disturbed by natural calamities including floods, etc., so that vegetation in those areas can be re-established:*

  
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*Provided further that if the brick earth removed is transported to a registered brick kiln unit, the permit holder shall pay due seigniorage fee for the quantum of brick earth removed from the permitted area at the rate fixed in Appendix-II to these rules:*

*Provided further that the permit holder may use the earth so removed for own consumption, for betterment of his own land or for any other purpose:*

*Provided also that the permit holder shall not remove earth after expiry of the permit period."*

Hence, SEAC requested SEIAA to decide on the applicability of the said Govt. Notification dt: 03.09.2021. If not applicable for the said activity of the proponent, the SEIAA shall direct the proponent to furnish clarification from AD, Geology & Mining whether it is red soil or any other (sand) based on the report on the composition of minerals for entire depth of mining issued by the laboratory established under department of Geology and Mining or laboratory authorized by department of Geology and Mining as per the above Court verdict pronounced.

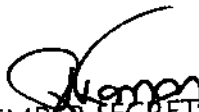
The proposal was again placed for appraisal in the 270<sup>th</sup> meeting of SEAC held on 06.05.2022. SEAC noted that, there is no note/communication received from SEIAA regarding the applicability of the said Govt. Notification dt: 03.09.2021. Besides it has been noted that the SEIAA vide letter No.SEIAA/TN/F.No.8211/2021 dated 27.10.2021 had already requested AD, Geology & Mining whether it is red soil or any other (sand) but reply was yet due. Hence the Committee decided that SEIAA shall obtain clarification from AD, Geology & Mining and then forward the matter to SEAC.

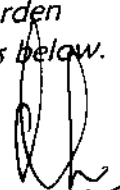
Email received from DFO, Ramanathapuram dated 02.08.2022 enclosing with letter vide C.No.2388/2022/AD dated 01.08.2022.

The proposal was placed in this 307<sup>th</sup> SEAC meeting held on 26.08.2022. Based on the presentation and documents furnished by the project proponent, SEAC noted as follows:

1. Letter received from Tamil Nadu Forest Department vide C.No.2388/2022/AD dated 01.08.2022 informing the following:

*"In this regard, distance details have been obtained from the Wildlife Warden Ramanathapuram & the Forest Range Officer, Sayalkudi, and furnished as below.*

  
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SF No. and location of the proposed quarry	GPS Co-ordinates	Distance of nearest Reserved Forest/ Sanctuaries/ National Park up to a radius of 25 Km	Distance of nearest Protected area/Eco sensitive zone of the nearest Sanctuaries/ National Park up to a radius of 25 Km
SF. Nos. 228/1 of Iruveli Village, Kadaladi Taluk, Ramnad District	N-09.17218 E-078.41722	Mookalyur Reserved Forest-07.00 Km	
		Mela-Keela Selvanoor Bird Sanctuary 15.17 Km	ESZ of Mela-Keela Selvanoor Bird Sanctuary 13.13 Km
		Gulf of Mannar Marine: National Park 10.90 Km	ESZ of Gulf of Mannar Marine National Park 06.33 Km

2. The project proponent submitted letter dated 22.08.2022 received from Geology and mining department, Ramanathapuram District.

Sl. No.	Details of the proposal	
1.	Name of the Owner / Firm	Thiru.T.Selvalingam No.4/15, Nagar Theru, Sayalkudi Kadalai Taluk Ramanathapuram District
2.	Type of quarrying	Red Soil
3.	S.F No. of the quarry site with area break-up	228/1
4.	Village in which situated	Iruveli Village
5.	Taluk in which situated	Kadaladi Taluk
6.	District in which situated	Ramanathapuram District
7.	Extent of Quarry (in ha.)	1.52.0 Ha
8.	Period of Quarrying proposed	one years
9.	Type of Mining	Opencast mining without drilling and blasting.
10.	Production (Quantity in m <sup>3</sup> )	As per the mining plan, the lease period is for 1 years & mining plan is for 1 years. 11,523m <sup>3</sup> of Red Soil with an ultimate depth of mining 1.0m
11.	Latitude & Longitude of all corners of the quarry site	09°10'21.79"N to 78°25'01.82"E
12.	Topo sheet No.	58 - K/8
13.	Precise Area Communication	Rc.No.792/(G&M.2)/2016, Dated:

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	approved by the District Collector	14.12.2020
14.	Mining plan approved by the Deputy Director of Geology and Mining with date	Rc.No.792/(G&M.2)/2016, Dated: 15.12.2020
15.	500mts letter approved by the Deputy Director of Geology and Mining with date	Rc.No.792/(G&M.2)/2016, Dated: 15.12.2020
16.	Depth of Mining	1.0m
17.	Project cost	Rs. 13.21 Lakhs
18.	EMP cost	Rs. 1,00,000 -/-
19.	CER cost	RS.2 lakhs

Based on the presentation and document furnished by the project proponent. After detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for 11,523 cu.m of Red soil with an ultimate depth of mining is 1 m 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. 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 the competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The proponent shall mandatorily appoint the statutory Mines Manager and the Mining Engineer in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 respectively.
3. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.

  
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5. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, dump management, dump mining, mineral transportation mode, ultimate depth of mining etc.) shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
6. 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.
7. 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.
8. 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.
9. 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. 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.
10. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The

proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.

11. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
12. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarries assured in the Environmental Management Plan & the approved Mine Closure Plan.
13. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
14. 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.
15. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
16. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
17. 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.

18. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
19. 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.
20. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
21. 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.
22. 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.
23. 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.
24. 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.

  
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25. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.

26. 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.

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. 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 revised EMP as committed.

29. As accepted by the Project Proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the committed activities for Government Primary School, vannikudi village before obtaining CTO from TNPCB.

**Agenda No: 307-06**


**(File No: 8745/2021)**

**Proposed construction of Multiplex Commercial Complex at S.F. Nos. 542/2A, 542/2B & 543/2 Thirukachoor Village, Chengalpattu Taluk, Chengalpattu District, Tamil Nadu by M/s. A.V.R.N. Hotels Private Limited - For Environmental Clearance. (SIA/TN/MIN/226411/2021 Dt. 26.08.2021)**

The proposal was placed in this 307<sup>th</sup> SEAC Meeting held on 26.08.2022. The project proponent gave a 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/activity is covered under Category "B" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.

  
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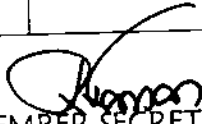
  
CHAIRMAN  
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S. No	Description																									
1.	Name of the Project	Proposed construction of Multiplex Commercial Complex- "Vijay Radha Mall" by M/s. A.V.R.N. Hotels Private Limited																								
2.	Location	S.F.Nos. 542/2A, 542/2B & 543/2 Thirukachoor Village, Chengalpattu Taluk, Chengalpattu District, Tamil Nadu																								
3.	Type of Project	Building and Construction Projects Schedule 8 (a), Category "B"																								
4.	Latitude & Longitude	<table border="1"> <thead> <tr> <th>S.No</th><th>Latitude</th><th>Longitude</th></tr> </thead> <tbody> <tr> <td>1</td><td>12°46'18.63"N</td><td>80°00'30.29"E</td></tr> <tr> <td>2</td><td>12°46'16.61"N</td><td>80°00'37.10"E</td></tr> <tr> <td>3</td><td>12°46'15.58"N</td><td>80°00'37.40"E</td></tr> <tr> <td>4</td><td>12°46'14.77"N</td><td>80°00'37.29"E</td></tr> <tr> <td>5</td><td>12°46'17.16"N</td><td>80°00'29.58"E</td></tr> </tbody> </table>	S.No	Latitude	Longitude	1	12°46'18.63"N	80°00'30.29"E	2	12°46'16.61"N	80°00'37.10"E	3	12°46'15.58"N	80°00'37.40"E	4	12°46'14.77"N	80°00'37.29"E	5	12°46'17.16"N	80°00'29.58"E						
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4	12°46'14.77"N	80°00'37.29"E																								
5	12°46'17.16"N	80°00'29.58"E																								
5.	Total Plot/land Area (in sq. m)	Total Plot Area – 11,400 Sq.m																								
6.	Built up area	Proposed total built-up area – 39,548.98 Sq.m																								
7.	Cost of Project	Rs. 74.40 crores																								
8.	Total Built up area	<p>The total built up area – 39,548.98 Sq.m</p> <p><b>Detailed Built Up Area Statement</b></p> <table border="1"> <thead> <tr> <th>S. No</th><th>Details</th><th>Total built up area (Sq.m)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Basement</td><td>5,649.85</td></tr> <tr> <td>2</td><td>Stilt Floor</td><td>5,649.86</td></tr> <tr> <td>3</td><td>First Floor</td><td>5,649.85</td></tr> <tr> <td>4</td><td>Second Floor</td><td>5,649.86</td></tr> <tr> <td>5</td><td>Fourth Floor</td><td>5,649.86</td></tr> <tr> <td>6</td><td>Fifth Floor</td><td>5,649.84</td></tr> <tr> <td></td><td><b>Total Area , Sqm</b></td><td><b>39,548.98</b></td></tr> </tbody> </table>	S. No	Details	Total built up area (Sq.m)	1	Basement	5,649.85	2	Stilt Floor	5,649.86	3	First Floor	5,649.85	4	Second Floor	5,649.86	5	Fourth Floor	5,649.86	6	Fifth Floor	5,649.84		<b>Total Area , Sqm</b>	<b>39,548.98</b>
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9.	Land Break up	S.No	Description	Area										
				Sqm	Percentage %									
		1	Total Land Area	11,400	100									
		2	Total Ground Coverage Area of Buildings	4,496	39									
		3	Roads and Pavements Area	3,818	34									
		4	STP, Solid Waste Disposal & Other utilities area	200	2									
		5	Greenbelt Area (excluding OSR)	1,744	15									
		6	OSR area	1,142	10									
10.	a) Water requirement KLD (After expansion)	Total water requirement – 84 kLD Fresh requirement – 34 kLD Treated Water requirement – 50 kLD												
11.	Quantity of Sewage KLD	Sewage Generation – 77 KLD												
12.	Mode of Disposal of treated sewage with quantity	Toilet Flushing – 50 KLD Greenbelt development – 10 KLD												
13.	Quantity of Solid Waste generated per day , Mode of treatment and Disposal of Solid Waste	<table><tr><th>Description</th><th>Quantity</th><th>Mode of Disposal</th></tr><tr><td>Bio degradable solid waste</td><td>389 Kg / day</td><td>Converted into manure using Organic Waste Converter &amp; utilized for greenbelt development</td></tr><tr><td>Non-Biodegradable solid waste @ 60%</td><td>583 Kg/day</td><td>Sent to Authorized recyclers</td></tr></table>				Description	Quantity	Mode of Disposal	Bio degradable solid waste	389 Kg / day	Converted into manure using Organic Waste Converter & utilized for greenbelt development	Non-Biodegradable solid waste @ 60%	583 Kg/day	Sent to Authorized recyclers
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Non-Biodegradable solid waste @ 60%	583 Kg/day	Sent to Authorized recyclers												

  
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		STP Sludge	7Kg/day	Dried & used as manure for greenbelt development																											
14.	Power requirement	3650KVA from Tamil Nadu Generation & Distribution Corporation 2Nos. of 2000 KVA																													
15.	Details of D.G. set with Capacity	DG set of 4nos.of 1010KVA will be installed																													
16.	Details of Green Belt Area	1743.93 sq.m																													
17.	Details of Parking Area	<table><tr><th colspan="4">Parking Details</th></tr><tr><th rowspan="2">Parking location</th><th>Car parking</th><th>Two Wheeler parking</th><th rowspan="2">Parking Floor Area</th></tr><tr><th>No of car park</th><th>No of two wheeler parks</th></tr><tr><td>Stilt parking</td><td>88</td><td>272</td><td>5650</td></tr><tr><td>Basement parking &amp; Terrace parking</td><td>561</td><td>335</td><td>13327</td></tr><tr><td><b>Total parking Details</b></td><td><b>649</b></td><td><b>607</b></td><td><b>18897</b></td></tr><tr><td>Total No of parking required</td><td>367</td><td>245</td><td>-</td></tr></table>				Parking Details				Parking location	Car parking	Two Wheeler parking	Parking Floor Area	No of car park	No of two wheeler parks	Stilt parking	88	272	5650	Basement parking & Terrace parking	561	335	13327	<b>Total parking Details</b>	<b>649</b>	<b>607</b>	<b>18897</b>	Total No of parking required	367	245	-
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Total No of parking required	367	245	-																												
18.	Provision for rain water harvesting	Total Rainwater Runoff – 11,089cum																													
19.	EMP Cost (Rs.)	Capital Expenses- 177.6 lakhs Annual operational Expenses- 57.65 Lakhs																													
20.	CER activities with the specific allocation of funds	Rs. 37.02 lakhs																													

Earlier, this proposal was placed in the 271<sup>st</sup> SEAC Meeting held on 12.5.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following additional details from the project proponent.

1. The PP shall furnish the commitment letter from competent authority/local body for fresh water supply and disposal of excess treated sewage water.
2. The details of E waste generation and its disposal shall be provided.
3. The entire roof of the building shall be coved with solar panels and the EMP may be revised accordingly.
4. The proponent company shall adopt 'Environment Policy' to be approved by the Board of the company and shall also create an Environment Management Cell to implement the Policy.
5. The PP has proposed surface car parking involving concretising large area of ground. Instead, the PP shall install a Multi-Level Car Parking (MLCP) and the space released shall be utilised for establishing additional green cover.
6. The revised EMP shall include construction of 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, (2) as a flood control measure and (3) as a device which was crucial to the overall eco-system.

Now, the proponent has furnished the reply vide letter dt: 28.07.2022. Hence, the proposal was placed for reappraisal in this 307<sup>th</sup> SEAC meeting held on 26.08.2022. 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 standard conditions stipulated by MOEF &CC:

1. The building shall conform to minimum of IGBC Gold green building norms and shall obtain IGBC certificate in this regard before obtaining CTO from TNPCB.

  
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2. The project proponent shall provide STP with a capacity 80 KLD and treated water shall be utilized for flushing, green belt and avenue plantation after obtaining necessary permission from competent Authority.
3. The treated/untreated sewage water shall not be let-out from the unit premises without obtaining necessary permission.
4. The proponent shall provide adequate organic waste disposal facility such as organic waste convertor within the project site as committed and non- bio-degradable waste to should be sent to authorized recyclers as committed.
5. The height of the stacks of DG sets shall be provided as per the CPCB norms.
6. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc, to TNPCB before obtaining CTO.
7. 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.
8. 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.
9. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
10. 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 State Forest and Horticulture Departments. 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.
11. 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.

12. The proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
13. 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.
14. 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.
15. No waste of any type to be disposed of in any other way other than as per the concerned regulations in force.
16. 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.
17. 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.
18. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring of the health of construction workers during COVID and post-COVID period.
19. The project proponent shall measure the criteria air pollutants data (including CO) due to vehicular traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
20. Generation of the solar/renewable energy should not be less than 50% of total energy utilization and ensure that the entire roof of the building. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
21. The grant of this E.C. is issued from the environmental angle only and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

22. 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.
23. The Project Proponent stated that an amount Rs. 37.02 lakhs shall be spent as CER and the amount shall be spent for the committed activities for (i) Government Boys High School, Nandhivaram (ii) Government Girls Higher Secondary School, Nandhivaram (iii) Government High School, Maraimalainagar (iv) Government High School, Thirukachoor before obtaining CTO from TNPCB.

**Agenda No: 307-7**

**(File No: 8761/2021)**

**Proposed rough stone and gravel quarry lease area over an extent of 0.94.5 Ha at S.F. Nos. 95/22, 94/23 & 95/24 Chithannavasal Village, Illuppur Taluk, Pudukkottai District, Tamil Nadu by Thiru. R. Sathiyamoorthy -For Environmental Clearance amendment (SIA/TN/MIN/226014/2021 Dt: 25.08.2021)**

The proposal was placed in this 307<sup>th</sup> SEAC Meeting held on 26.08.2022. 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. R. Sathiyamoorthy has applied for the Environmental Clearance for proposed rough stone and gravel quarry lease area over an extent of 0.94.5 Ha at S.F. Nos. 95/22, 94/23 & 95/24 Chithannavasal Village, Illuppur Taluk, Pudukkottai 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 5 years. The production for 5 years not to exceed 30335 m<sup>3</sup> of rough stone. The annual peak production as per mining plan is 6445m<sup>3</sup> of rough stone (2<sup>nd</sup> year) with ultimate depth of 22m BGL
4. Earlier the proposal was placed in the 271<sup>st</sup> SEAC Meeting held on 12.5.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following details from the


  
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project proponent. The project proponent shall furnish a NOC from Archaeological Survey of India, since the Chithannavasal Archaeological site is located in the vicinity of the proposed site.

On the receipt of the reply it was placed in 307<sup>th</sup> SEAC Meeting held on 26.08.2022 & SEAC noted that the AD mines has issued the letter in this regard and the same was accepted by the SEAC.

Sl. No	Details of the proposal	
1.	Name of the Owner/Firm	: Thiru.R.Sathiyamoorthy S/o.Ramasamy Ellaiyapatti, Mathiyanallur Illuppur Pudukkottai District-622102
2.	Type of quarrying	: Rough stone
3.	S.F No. Of the quarry site with area break-up	: 95/22, 95/23, & 95/24
4.	Village in which situated	: Chithannavasal
5.	Taluk in which situated	: Illuppur
6.	District in which situated	: Pudukkottai
7.	Extent of quarry (in ha.)	: 0.94.5Ha
8.	Period of quarrying proposed	: 5 years
9.	Type of mining	: Opencast semi Mechanized mining
10.	Production (Quantity in m <sup>3</sup> )	: 27,780 m <sup>3</sup> Rough stone
11.	Depth of quarrying	: Section X1Y1-AB upto 12m BGL Section X2Y2-AB upto 17m BGL and Section X3Y3-AB upto 12m BGL (Existing – 7m and proposed – 5m)
12.	Latitude & Longitude of all corners of the quarry site	: 10°27'14.98"N to 10°27'13.78"N 78°44'02.67"E to 78°43'58.98"E
13.	Top Sheet No.	: 58 J/11
14.	Man Power requirement	: 18 Nos.
15.	Precise area District Collector with date	: Rc.No. 152/2020(G&M), Dated: 04.02.2021
16.	Mining Plan approved by Assistant Director, Department of G&M Mines with date	: Rc.No. 152/2020 (G&M), Dated: 24.03.2021
17.	Deputy Director, Department of G&M Mines with date 500m cluster letter	: Rc.No. 152/2020 (G&M), Dated: 21.04.2021

  
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18.	Water requirement: 1. Drinking & Domestic Purpose 2. Dust suppression 3. Green Belt (in KLD)	:	5.0 KLD 1.25 KLD 1.75 KLD 2.0 KLD
19.	Power requirement a. Domestic Purpose b. Industrial Purpose	:	24,256 Liters of HSD for the entire period of life
20.	Depth of water table	:	35m
21.	EMP cost	:	Capital cost : Rs. 13,08,400 Recurring cost : Rs. 4,98,000
22.	CER cost	:	Rs. 5,00,000
23.	Total Project Cost (Excluding EMP)	:	Rs. 12,00,000
24.	VAO certificate regarding habitation within 300m radius	:	Letter Dated:12.04.2021

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for quantity of 27,780m<sup>3</sup> of Rough Stone and for an annual peak production of 6,445m<sup>3</sup> of Rough Stone (2<sup>nd</sup> Year) by restricting the depth considering the safety aspect in Section X1Y1-AB upto 12m BGL, Section X2Y2-AB upto 17m BGL and Section X3Y3-AB upto 12m BGL (Existing – 7m and proposed – 5m), 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 No. S.O. 1807(E) Dt12.4.2022.
2. The PP shall send the 'Notice of Opening' of the Quarry & commencement of mining operations to the Asst Director (Mines), DEE/TNPCB and DMS, Chennai Region before obtaining the CTO.
3. The PP shall develop the Greenbelt by planting suitable species as cited by the SEAC in the safety zone to be left statutorily around the quarry limit for a width of 7.5 m / 10 m as per the approved Mining Plan.
4. The mine manager and other statutory competent persons such as blaster (or)

  
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mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.

5. The PP shall ensure that the blasting operations are carried out under the supervision of the statutory competent person – Blaster (or) Mine Mate (or) Mine Foreman under the provisions of MMR 1961, employed directly by him.
6. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
7. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Government Higher Secondary School, Mathiyannallur Village before obtaining CTO from TNPCB.

Agenda No: 307-08

(File No: 8802/2021)

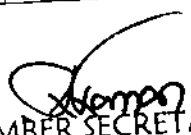
Proposal seeking EC for the Proposed Modernization of Hospital at S.F.Nos : 240/6, 240/7B, 240/8B, 240/8C, 240/9A, 240/9B, 240/10, 242/3A, 242/5A, 243/1, 243/2, 243/3, 243/4, 243/5, 245/1, 245/2, 245/3, 245/4A, 245/4B, 245/5A, 245/5B, 245/5C, 245/5D, 245/6A, 245/6B, 245/6D, 252/5A, 252/5B, 252/5C, 252/5D, 252/5E, 252/5F, 252/6D, 255/1A, 255/2A1, 255/2B2, 255/2C, 255/2D1, 256, 257/1A, 257/1B, 257/1C, 257/1D, 257/1E, 232/5 & 232/6A, in Irungalur Village, Manachanallur Taluk, Tiruchirapalli district, Tamil Nadu by M/s. SRM Institute of Science & Technology (Hospital)- For Environmental Clearance (SIA/TN/MIS/229424/2021, dated 18.09.2021).

The proposal was earlier placed in 258<sup>th</sup>, 262<sup>nd</sup> and 271<sup>st</sup> meetings of SEAC. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following


1. The proposed quarry/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.

Details of the Proposal		
S.No.		
1.	Name of the Project	Proposed Modernization of Hospital by M/s. SRM Institute of Science & Technology (Hospital)

  
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2.	Location	Existing	Proposed	After Bed Increase
		S.F.Nos : 240/6, 240/7B, 240/8B, 240/8C, 240/9A, 240/9B, 240/10, 242/3A, 242/5A, 243/1, 243/2, 243/3, 243/4, 243/5, 245/1, 245/2, 245/3, 245/4A, 245/4B, 245/5A, 245/5B, 245/5C, 245/5D, 245/6A, 245/6B, 245/6D, 252/5A, 252/5B, 252/5C, 252/5D, 252/5E, 252/5F, 252/6D, 255/1A, 255/2A1, 255/2B2, 255/2C, 255/2D1, 256, 257/1A, 257/1B, 257/1C, 257/1D, 257/1E, 232/5 & 232/6A, in Irungalur Village, Manachanallur Taluk, Tiruchirapalli District, Tamil Nadu	S.F.Nos : 240/6, 240/7B, 240/8B, 240/8C, 240/9A, 240/9B, 240/10, 242/3A, 242/5A, 243/1, 243/2, 243/3, 243/4, 243/5, 245/1, 245/2, 245/3, 245/4A, 245/4B, 245/5A, 245/5B, 245/5C, 245/5D, 245/6A, 245/6B, 245/6D, 252/5A, 252/5B, 252/5C, 252/5D, 252/5E, 252/5F, 252/6D, 255/1A, 255/2A1, 255/2B2, 255/2C, 255/2D1, 256, 257/1A, 257/1B, 257/1C, 257/1D, 257/1E, 232/5 & 232/6A, in Irungalur Village, Manachanallur Taluk, Tiruchirapalli District, Tamil Nadu	No Change
3.	Type of Project	Building and Construction projects Schedule 8 (a)		
4.	Brief Description of the project	Existing	Proposed	After Bed Increase
		Project consists of Hospital Block - 1 no (Ground Floor, First Floor, Second Floor, Third Floor, Fourth Floor, Fifth Floor and Sixth Floor each), Power Room 1 (Ground Floor)		No Change

  
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5.	Total land Area (in sq. m)	<table><tr><th rowspan="2">S.No</th><th rowspan="2">Details</th><th colspan="2">Existing</th><th>Proposed</th><th>After Bed Increase</th></tr><tr><th>Area in (Sq.m)</th><th>Percentage (%)</th><th>Area in (Sq.m)</th><th>--</th></tr><tr><td>1</td><td>Ground Coverage area</td><td>18,276.18</td><td>20.15</td><td>--</td><td rowspan="6">No Change</td></tr><tr><td>2</td><td>Parking area</td><td>12,550.00</td><td>13.84</td><td>--</td></tr><tr><td>3</td><td>Green Belt Area</td><td>33,600.00</td><td>37.05</td><td></td></tr><tr><td>4</td><td>OSR Area</td><td>9,070.00</td><td>10</td><td>--</td></tr><tr><td>5</td><td>Roads &amp; Pavements Area</td><td>16,350.00</td><td>18.03</td><td>--</td></tr><tr><td>6</td><td>Others/Vacant Area</td><td>8,53.82</td><td>0.94</td><td></td></tr><tr><td colspan="2">Total</td><td>90,700.00</td><td>100</td><td></td><td></td></tr></table>						S.No	Details	Existing		Proposed	After Bed Increase	Area in (Sq.m)	Percentage (%)	Area in (Sq.m)	--	1	Ground Coverage area	18,276.18	20.15	--	No Change	2	Parking area	12,550.00	13.84	--	3	Green Belt Area	33,600.00	37.05		4	OSR Area	9,070.00	10	--	5	Roads & Pavements Area	16,350.00	18.03	--	6	Others/Vacant Area	8,53.82	0.94		Total		90,700.00	100		
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			--	120 KLD -Sent to STP for further treatment.	120 KLD -Sent to STP for further treatment.																								
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16.	Quantity of Solid Waste generated per day, Mode of treatment and Disposal of Solid Waste	<table><tr><th rowspan="2">Description</th><th colspan="3">Quantity (in Kg/day)</th><th rowspan="2">Method of Disposal</th></tr><tr><th>Existing</th><th>Proposed</th><th>After Bed Increase</th></tr><tr><td>Sludge form STP</td><td>55</td><td>5</td><td>60</td><td>Used as manure</td></tr><tr><td>Sludge form ETP</td><td>--</td><td>56.37</td><td>56.38</td><td>Disposed through Authorized Recycler</td></tr><tr><td>Used/ spent oil</td><td>160 ltr/A</td><td>--</td><td>160 ltr/A</td><td>Disposed through Authorized Recycler</td></tr></table>					Description	Quantity (in Kg/day)			Method of Disposal	Existing	Proposed	After Bed Increase	Sludge form STP	55	5	60	Used as manure	Sludge form ETP	--	56.37	56.38	Disposed through Authorized Recycler	Used/ spent oil	160 ltr/A	--	160 ltr/A	Disposed through Authorized Recycler
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17.	Biomedical waste		Quantity (in Kg/day)			Method of Disposal
		Description	Existing	Proposed	After Bed Increase	
		Biomedical waste	338	1237	1575	Disposed through M/s. Medicare Enviro Systems.
18.	Power requirement	1000 KVA Source-TANGEDCO				
19.	Details of D.G. set with Capacity and Stack Height		Existing	Proposed	After Bed Increase	
		725 - 2 nos	--	725 - 2 nos		
20.	Details of Greenbelt Area		Existing	Proposed	After Bed Increase	
		33600.00 Sq.m	33600.00 Sq.m	33600.00 Sq.m		
21.	Details of Parking Area Two-Wheeler: Four -Wheeler:		Existing	Proposed	After Bed Increase	
		12,550.00 Sq.m (425 Cars)	--	12,550.00 Sq.m (950 Cars and Two Wheeler - 350 nos)		
22.	Provision for Rain water harvesting		Existing	Proposed	After Bed Increase	
		12,550.00 Sq.m (425 Cars)	--	12,550.00 Sq.m (950 Cars and Two Wheeler - 350 nos)		
23.	Details of Solar Energy harnessing	Attached				
24.	EMP Cost (Rs.)	Capital cost -145.0 Lakh Operation cost - 10 Lakh/ annum				
25.	CER activities with the specific allocation of funds	Rs.106.32Lakh				

Based on the presentation made and documents furnished by the project proponent, SEAC decided to call for the additional and PP reply is as follows

S.No	Query	Reply
1	The project proponent shall furnish the certified compliance report from regional office of MoEF&CC/TNPCB for the earlier EC.	The certified compliance report from regional office of MoEF&CC/TNPCB has been obtained..
2	Details of organisation's Environment policy and Environment Management Cell	Environmental policy and Environment Management Cell attached
3	Green cover should be increased by constructing Multi level car parking (MLCP) instead of open parking as proposed.	We have added area for greenbelt development. Details attached
4	The revised water balance shall be furnished.	The revised water balance has been attached
5	The PP shall furnish commitment letter from competent authority for fresh water supply and disposal of excess treated sewage water.	The commitment letter from competent authority for fresh water supply has been attached The commitment letter from competent authority/land details for disposal of excess treated sewage water has been attached
6	Floor wise number of beds and per bed space/area and whether it meets the norms set by the National Medical Commission.	Floor wise number of beds and per bed space/area has been attached
7	PP has stated that the existing capacity STP & ETP will take care of proposed expansion. PP shall provide detailed supporting calculations.	We having existing 600 KLD STP in which we are going to treat (538.5 KLD of sewage and treated effluent) and we have proposed to construct 125 KLD effluent treatment plant details attached .
8	Copies for CTE and CTO obtained from TNPCB so far.	Copies for CTE and CTO obtained from TNPCB has been attached.
9	Revised EMP and CER	EMP cost and CER cost has been revised and attached

  
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On receipt of reply, the proposal was placed in this 307<sup>th</sup> Meeting of SEAC held on 27.08.2022. Based on the presentation made and documents furnished by the project proponent, SEAC decided to clarify the following points and the PP's clarification is as follows.

S.No	Query	Reply
1	List of Energy Conservations provided.	The list Energy conservation measures attached
2	Environment policy has to be placed in hospital areas.	Environmental policy will be displayed in our hospital.
3	The PP shall furnish commitment letter from competent authority for fresh water supply from Aykudi Village Panchayat.	The commitment letter from Aykudi Panchayat for fresh water supply has been attached
4	Revised Environment Management Plan & Corporate Environmental Responsibility.	EMP & CER has been revised and attached as Annexure III.
5	Construction of pond for water storage.	Water storage pond will be provided having capacity of 20 Lakh within the premises.
6	Floor wise number of beds and per bed space/area and whether it meets the norms set by the National Medical Commission.	Floor wise number of beds and per bed space/area has been attached.

Based on the presentation made, documents and clarification furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance increase in the bed capacity from 750 Nos to 1575 Nos** subject to the following specific conditions, in addition to standard conditions stipulated by MOEF &CC:


- The PP shall develop the additional Green belt area to the extent of 51111.8 Sq.m in SF.No. 254/17,20, 256/2.5,7,8,9,10,11,12,13,14,16, 257/15, 258/10,11,12B, 308/3,4,5,7,16,17,18, 354/2,3,4,5,7B,9,12, 355/2.8, Aykudi Village

  
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2. The project proponent shall provide STP with a capacity Existing 600 KLD & Proposed ETP - 125 KLD and treated water shall be utilized for flushing, green belt and avenue plantation after obtaining necessary permission from competent Authority.
3. The treated/untreated sewage water shall not be let-out from the unit premises without obtaining necessary permission.
4. The proponent shall provide adequate organic waste disposal facility such as organic waste convertor within the project site as committed and non- bio-degradable waste to should be sent to authorized recyclers as committed.
5. The height of the stacks of DG sets shall be provided as per the CPCB norms.
6. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc, to TNPCB before obtaining CTO.
7. 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.
8. 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.
9. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
10. 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 State Forest and Horticulture Departments. 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.
11. 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

  
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boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.

12. The proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
13. 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.
14. 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.
15. The PP shall comply with the Bio Medical Waste Management Rule 2016
16. No waste of any type to be disposed of in any other way other than as per the concerned regulations in force.
17. 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.
18. 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.
19. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring of the health of construction workers during COVID and post-COVID period.
20. The project proponent shall measure the criteria air pollutants data (including CO) due to vehicular traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
21. Generation of the solar/renewable energy should not be less than 50% of total energy utilization and ensure that the entire roof of the building. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
22. 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

  
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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 stated that an amount Rs. 106.32 lakhs shall be spent as CER as committed.

**Agenda No: 307-9**

**(File No: 8872/2021)**

**Proposed Gravel quarry lease over an extent of 3.16.0Ha in S.F.No: 43/1,43/3, 43/4,43/5A,47/8,47/9& 47/10 of Kariyamanikam village, Manachannallur Taluk, Thiruchirapalli District by Thiru. T. Balakrishnan- For Environment Clearance (SIA/TN/MIN/ 236616/2021 dated 12.05.2022)**

The proposal was earlier placed in the 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 on the PARIVESH web portal (parivesh.nic.in).

**The SEAC noted the following:**

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


Sl. No	Details of the proposal	
	Name of the Owner/Firm	: Thiru. T. BALAKRISHNAN S/o. Thangavel, No.43KA – 1, Manakkadu, Pullampadi Post Lalgudi Taluk, Thiruchirapalli District – 621711
	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Gravel
	S.F No. Of the quarry site with area break-up	: S.F.No: 43/1,43/3, 43/4,43/5A,47/8,47/9& 47/10
	Village	: Kariyamanikam
	Taluk	: Manachannallur
	District	: Thiruchirapalli
	Extent of quarry (in ha.)	: 3.16.0Ha (patta land)
	Period of quarrying proposed	: 3 years

  
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Type of mining	:	Open Cast Mechanized Mining
Production (Quantity in m3)	:	As per the mining plan, the lease period is for 3 years and the production for 3 years not to exceed 39024 m <sup>3</sup> of Gravel for an ultimate depth of 2m below ground level.  The Annual peak production as per mining plan is 15696 m <sup>3</sup> of Gravel (1 <sup>st</sup> year).
1. Depth of quarrying	:	2m below ground level
Latitude & Longitude of all corners of the quarry site	:	11°0'57.31"N to 11°1'7.86"N 78°44'46.83"E to 78°48'51.48"E
Topo Sheet No.	:	58 - I/12
Man Power requirement per day	:	13Nos.
Precise area communication	:	Rc.No. 572/2021/ Mines , Dated 20.10.2021
Mining Plan	:	Rc.No. 572/2021/ Mines Dated 22.10.2021
500m cluster letter	:	Rc.No. 572/2021/Mines Dated 26.10.2021
Water requirement 1. Drinking & domestic purposes (in KLD) 2. Dust suppression & Green Belt (in KLD)	:	1.64 KLD  0.64 KLD 1.0 KLD
Power requirement for domestic purpose	:	TNEB
Depth of water table	:	18m-20m
Whether any habitation within 300m distance	:	No as per the Tasildhar letter dated 29.10.2021
Project Cost (including EMP cost)	:	Rs. 16,17,300/-
EMP cost	:	Capital cost Rs. 1.30 Lakh Recurring cost – 1.31 lakh per annum
CER cost	:	Rs. 60,000
2. VAO certificate regarding habitation within 300m radius	:	Letter dated 13.05.2022

Based on the presentation and documents furnished by the project proponent, SEAC noted that the soil sample was collected by the project proponent and handed over for soil testing which is inappropriate. Hence SEAC decided that the project proponent shall do the soil analysis again through NIT, Trichy and furnish the report for further deliberations.

  
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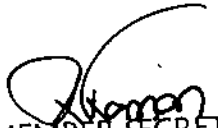
Proponent submitted the additional particulars sought vide letter dated 25.07.2022. Hence the subject was placed before the Committee in this 307th meeting of SEAC held on 27.08.2022.

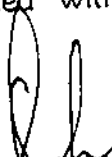
Based on the presentation and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** for the total production of **39024m<sup>3</sup> of Gravel to an ultimate depth of 2m BGL for a period of three years** with an annual peak production capacity of 15696 m<sup>3</sup> of Gravel (1<sup>st</sup> year) as per the mining plan subject to the standard conditions & 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 the competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The proponent shall mandatorily appoint the statutory Mines Manager and the Mining Engineer in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961 respectively.
3. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
5. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, dump management, dump mining, mineral transportation mode, ultimate depth of mining etc.) shall be carried out without prior approval of the Ministry of Environment, Forest and

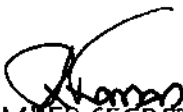
Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.

6. 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.
7. 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.
8. 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.
9. 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. 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.
10. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
11. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear

  
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- plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
12. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarries assured in the Environmental Management Plan & the approved Mine Closure Plan.
  13. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
  14. 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.
  15. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
  16. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
  17. 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.
  18. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per

  
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19. 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.
20. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
21. 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.
22. 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.
23. 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.
24. 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.
25. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. The Project Proponent shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines (IBM) from time to time.

  
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26. 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.
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. 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 furnished.
29. As accepted by the Project proponent the CER cost is **Rs. 60,000** and the amount shall be spent for the committed activities at Kariyamanickam Government School before obtaining CTO from TNPCB.

**Agenda No: 307-10**

**(File No: 8997/2022)**

**Proposed Rough stone & gravel quarry lease over an extent of 1.62.0 Ha in S.F.Nos. 319/1, 319/2, 319/3 & 319/4, Sirudamur Village, Uthiramerur Taluk Kancheepuram District, Tamil Nadu by Thiru N. Kanniyappan - For Terms of Reference. (SIA/TN/MIN/72047/2022 Dt: 07.02.2022)**

The proposal was placed in 273<sup>rd</sup> SEAC meeting held on 14.5.2022. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

SEAC noted the following:

1. The Project Proponent, Thiru N. Kanniyappan has applied for Terms for Reference for the proposed Rough stone & gravel quarry lease over an extent of 1.62.0 Ha in S.F.Nos. 319/1, 319/2, 319/3 & 319/4, Sirudamur Village, Uthiramerur Taluk Kancheepuram 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. As per the mining plan, the lease period is 10 years. The production as per

  
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mining plan for 5 years not to exceed – 98276 m3 of Rough Stone and 27084 m3 of Gravel. The Annual peak production as per mining plan is 21600 m3 of Rough Stone (4<sup>th</sup> year) and 27084 m3 of Gravel (1<sup>st</sup> year) with ultimate depth of 20m BGL.

Earlier, this proposal was placed in the 273<sup>rd</sup> SEAC meeting held on 14.5.2022. Based on the presentation and documents furnished by the project proponent, SEAC noted that as per OM No. F.No.23-43/2018-IA.III Dt. 8.8.2019, para 4(iv) "Proposals involving mining of minerals within the ESZ (or) one kilometer from the boundaries of National Parks and Sanctuaries whichever is higher is prohibited in accordance with the order of the Hon'ble Supreme Court dated 4.08.2006 in the matter of T.N. Godavarman Thirumulpad Vs. UOI in W.P.(C) No. 202 of 1995 and dated 21.4.2014 in the matter of Goa Foundation Vs. UOI in W.P.(C) No. 435 of 2012".

In the present case, the Karikili Bird sanctuary is located within 10Km and as the ESZ for the Karikili Bird sanctuary is yet to be notified. The Committee, therefore, decided to **not recommend** the proposal.

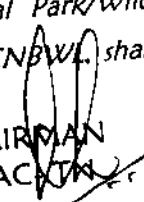
Meanwhile the Project Proponent made a request vide letter dt: 18.07.2022 and the PP has stated the following.

*"I have applied for Terms of Reference (ToR) for a Rough Stone and Gravel Quarry. The SEAC noted that Karikili Birds Sanctuary is located at a distance of 12.91km south and directed me to obtain NBWL Clearance. Since I have applied for only Terms of Reference (ToR), the same may please be granted and I will produce the NBWL Clearance, if any applicable by then, when I apply for the Environmental Clearance."*

Now, the proposal was placed for reappraisal in this 307<sup>th</sup> SEAC meeting held on 26.08.2022. Based on the presentation made by the proponent, SEAC noted that the O.M dated 06.05.2022, para 1.6 states that,

*"...Notifications of Eco Sensitive Zones(ESZ) specify the activities which are prohibited, regulated and promoted in the ESZ. Proposals for prohibited activities should not be forwarded for consideration of the SCNBWL. For taking up any activity within an ESZ, if notified, or within 10km zone of the boundary of National Park/Wildlife Sanctuaries, if ESZ has not been notified, prior approval of the NBWL/SCNBWL shall be*


  
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*required if the activity/project is listed in the schedule of the EIA Notification 2006 as amended from time to time".*

The proposal was again placed in this 307<sup>th</sup> SEAC Meeting held on 26.08.2022. Based on the presentation made by the proponent, SEAC decided to recommend grant of Terms of Reference (TOR) with Public Hearing subject to the following **additional TORs**, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proponent shall obtain NBWL Clearance as the Karikili Birds Sanctuary is located within 10 km from the proposed mining area while submitting EIA study along with minutes public hearing.
2. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
3. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, indicating the haul road with keeping the benches intact.
4. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
5. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 20 m from the blast site.
6. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.

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



be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.

13. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
14. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
15. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
16. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
17. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
18. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease,

- its land use, R&R issues, if any, should be provided.
19. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
  20. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
  21. Impact on local transport infrastructure due to the Project should be indicated.
  22. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
  23. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
  24. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
  25. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
  26. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
  27. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
  28. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the **appendix-I** in consultation with the

DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

29. 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
30. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
31. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
32. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
33. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
34. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
35. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
36. Benefits of the Project if the Project is implemented should be spelt out. The

benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.

37. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
38. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
39. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

**Agenda No: 307-11**


**(File No: 8906/2022)**

**Proposed Rough Stone quarry lease over an extent of 1.58.5 Ha (Patta Land) in S.F.No. 92/1B, Maveripatty Village, Harur Taluk, Dharmapuri District, Tamil Nadu by Thiru A. Thirumal- For Environmental Clearance (SIA/TN/MIN/250859/2022 Dated 18.01.2022)**

The proposal was placed in the 307<sup>th</sup> meeting of SEAC held on 26.08.2022. The project proponent presented the details of the proposed quarry. The details of the proposed quarry furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted of the following:**

1. The Project Proponent, Thiru A. Thirumal has applied for Environmental Clearance for the proposed Rough Stone quarry over an extent of 1.58.5 Ha (Patta Land) in S.F.No. 92/1B, Maveripatty Village, Harur Taluk, Dharmapuri District, Tamil Nadu
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 10 years and the proposed mining plan for the period of 5 years with the production should not exceed 73790 cu.m. of Rough Stone and 5580 cu.m. of Top soil. The annual peak production 16530

  
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cu.m. of Rough Stone(1<sup>st</sup> year) and 4410 cu.m. of Top soil (1<sup>st</sup> year). The ultimate depth is 30m BGL.

Earlier, this proposal was placed in the 277<sup>th</sup> meeting of SEAC held on 26.05.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain following details from the PP.

1. The PP shall furnish certified EC compliance report obtained from MOEF&CC/TNPCB.
2. The PP shall furnish the details on the completion of fencing work around the existing quarry.
3. It is found that the existing pit does not have benches. The PP shall, therefore, furnish slope stability action plan involving the realignment of benches (or) stability measures approved by the AD/Mines, DGM for the existing quarry.

Now, the proponent has furnished the EC compliance, slope stability action plan and Drone videos about the fencing around the lease area on 22.08.2022. Hence, the proposal was placed for reappraisal in this 307<sup>th</sup> meeting of SEAC held on 26.08.2022. Based on the presentation and documents furnished by the project proponent, SEAC noted that mining has been done without proper benches in the past and this aspect has not been taken into account in the mining plan and therefore decided to obtain following details from the PP.


1. The Project Proponent shall furnish the revised mining plan approved by the competent authority, incorporating the slope stability action plan by maintaining benches of appropriate geometry.

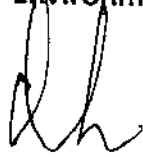
On receipt of the above details, the SEAC would further deliberate on this project and decide the further course of action.

**Agenda No: 307 - 12**

**(File No: 8926/2022)**

**Proposed Rough Stone and Gravel quarry lease over an extent of 4.60.50 Ha in S.F.Nos. 46/1, 46/2, 46/3, 46/4, 46/5, 46/6 & 47/5 Yechantha Village, Sankarankovil Taluk, Tenkasi District, Tamil Nadu by Thiru S.K. Rajkumar for Environmental Clearance (SIA/TN/MIN/247441/2021 Dated 12.01.2022)**

  
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The 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 proposed quarry/activity would fall under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Sl. No	Details of the proposal	
1	Name of the Owner/Firm	: Thiru.S.K.Rajkumar S/o.Kasipandiyan No.1/97, 160, Pillaiyar Kovil Street Naduvakurichi, Sankarankovil Taluk Tenkasi District
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone & Gravel
3	S.F No. Of the quarry site with area break-up	: 46/1,46/2,46/3,46/4,46/5,46/6 & 47/5
4	Village in which situated	: Yechantha
5	Taluk in which situated	: Sankarankovil
6	District in which situated	: Tenkasi
7	Extent of quarry (in ha.)	: 4.60.50Ha
8	Latitude & Longitude of all corners of the quarry site	: 09°04'11.8"N to 09°04'22.1"N 77°29'26.7"E to 77°29'39.1"E
9	Topo Sheet No.	: 58 - G/8
10	Type of mining	: Opencast Mechanized Method of Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m <sup>3</sup> )	: As per mining plan, the lease period is 10 years. The mining plan is for the period of 5 years & the production should not exceed 332430 Cu.m. of Rough Stone, 141324.75 Cu.m of Gravel and 60567.75 cu.m. of Earth. The annual peak production 128375 Cu.m. of Rough Stone (5 <sup>th</sup> year), 55125 Cu.m of Gravel

  
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		(4 <sup>th</sup> year) and 42525 Cu.m. of Earth (2 <sup>nd</sup> year). The ultimate depth – 35m BGL.
13	Depth of quarrying	: 35.0m below ground level
14	Depth of water table	: 40m-45m BGL
15	Man Power requirement per day:	26 Nos.
16	Source of Water Requirement	water vendors & Borewell
17	Water requirement: 3. Drinking & domestic purposes (in KLD) 4. Dust suppression, Green Belt & Wet Drilling (in KLD)	: 3.200 KLD 1.000 KLD & 1.300 KLD 0.600 KLD 0.300 KLD
18	Power requirement	TNEB
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the, District Collector, Geology and Mining with date	: Rc.No.M3/7307/2019, dt:12.10.2020
21	Mining Plan approved by Joint Director /Assistant Director (i/c), Department of Geology and Mining with date	: Rc.No.M3/7307/2019, dt: 07.01.2021
22	Joint Director /Assistant Director (i/c), Department of Geology and Mining 500m cluster letter	: Rc.No.M3/7307/2019, dt:07.01.2021
23	VAO certificate regarding 300m radius cluster	Letter dt: 30.05.2022
24	Project Cost (excluding EMP cost)	: Rs.348.53 Lakhs
25	EMP cost	: Capital - Rs.11.90Lakhs Rcuring Cost – Rs. 15.50 Lakhs
26	CER cost	Rs.7 Lakhs

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

1. As there is a temple close to the site, the PP shall furnish a letter from the Panchayat indicating the details of number of devotees who visit the temple, periodicity, seasonal festivals and whether the Panchayat has any objections to the proposed quarry from the angle of public safety.
2. The PP shall furnish the revised EMP including manpower cost for Blaster.

Mines manager, etc..

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

The proposal was placed in the 524<sup>th</sup> Authority meeting held on 22.06.2022. The authority noted that this proposal was placed for appraisal in this 278<sup>th</sup> meeting of SEAC held on 27.05.2022 and the SEAC decided to call for the following details from the PP.


1. As there is a temple close to the site, the PP shall furnish a letter from the Panchayat indicating the details of number of devotees who visit the temple, periodicity, seasonal festivals and whether the Panchayat has any objections to the proposed quarry from the angle of public safety.
2. The PP shall furnish the revised EMP including manpower cost for Blaster, Mines manager, etc..

The proponent has furnished reply vide Ir. Dt: 31.05.2022. In this connection, the proposal was again placed in this 307<sup>th</sup> SEAC Meeting held 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 considering the safety aspect the ultimate depth of mining upto 35m BGL and the quantity of 332430 Cu.m. of Rough Stone, 141324.75 Cu.m of Gravel and 60567.75 cu.m. of Earth 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 send the 'Notice of Opening' of the Quarry & commencement of mining operations to the Asst Director (Mines), DEE/TNPCB and DMS, Chennai Region before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.

  
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4. The PP shall ensure that the blasting operations are carried out under the supervision of the statutory competent person – Blaster (or) Mine Mate (or) Mine Foreman under the provisions of MMR 1961, employed directly by him.
5. The PP shall develop the Greenbelt by planting suitable species as cited by the SEAC in the safety zone to be left statutorily around the quarry limit for a width of 7.5 m / 10 m as per the approved Mining Plan.
6. Within two years of the commencement of mining operations, the PP shall carry out the scientific studies on controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock, by involving a reputed Research and Academic Institution such as NIRM, 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.
7. The Project Proponent (PP) shall submit an 'Action Plan' to the AD (Mines) for carrying out the realignment of the benches in the existing quarry and shall also furnish a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from the concerned DEE / TNPCB.
8. The PP shall carry out the controlled blasting using jack hammer drilled holes (32-34 mm dia & 1.5 m length) and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation. The PP shall also ensure that the controlled blasting operation shall be carried in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. Further, the PP shall obtain prior permission to carry out aforesaid controlled blasting operation from the Director of Mines Safety (DMS), Chennai Region before obtaining the CTO.
9. The blasting activities shall be carried out safely under direct supervision of

statutory competent person such as Blaster (or) Mine Mate who are directly employed by the PP.

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

11. As accepted by the Project proponent the CER cost is Rs. 7 lakhs and the amount shall be spent for the Yechantha Panchayat Government Primary School & Panchyat Government primary school, Andarkulam village before obtaining CTO from TNPCB.

Agenda No: 307-13

(File No: 8976/2022)

Proposed Lime Kankar, Quartz & Feldspar Deposit quarry lease over an extent of 2.42.5 Ha at S.F.No.1568(Part), Pachapalayam Village, Kangayam Taluk, Tiruppur District, Tamil Nadu by M/s.Dollar Minerals Industries - For Environmental clearance. (SIA/TN/MIN/ 254439/2022 dated 01.02.2022)

The proposal was placed for appraisal in this 307<sup>th</sup> meeting of SEAC held on 26.08.2022. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

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

Sl. No.	Details of the proposal	
1.	Name of the Owner / Firm	M/s.Dollar Minerals Industries No.13,60 Feet Road Kumarananthapuram Tiruppur District-641602
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Lime Kankar, Quartz & Feldspar Deposit quarry
3.	S.F No. of the quarry site with area break-up	1568(Part)
4.	Village in which situated	Pachapalayam
5.	Taluk in which situated	Kangayam
6.	District in which situated	Tiruppur
7.	Extent of Quarry (in ha.)	2.42.5 Ha
8.	Period of Quarrying proposed	Five years
9.	Type of Mining	Opencast semi Mechanized Mining
10.	Total Production (Quantity in Ts)	Total production as per mining

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		plan is 93588 Ts of ROM, 23396 Ts of Quartz @ 25%, 70192 Ts of Feldspar @75% and limekankar is 13908 Ts.
11.	Annual peak production(Quantity in Ts)	Annual peak production as per mining plan is 19967 Ts of ROM, 4991 Ts of Quartz and 14976 Ts of Feldspar, 9578 Ts of Limekankar.
12.	Latitude & Longitude of all corners of the quarry site	10°56'27.32"N to 10°56'32.40"N 77°38'32.95"E to 77°38'39.10"E
13.	Topo sheet No.	58 - F/09
14.	Man power requirement per day:	18 Employees
15.	Precise Area Communication with date	Govt. Letter No. 7027/MMC.1/2021-1; Dated : 02.11.2021
16.	Mining plan approved by the Additional of Director, Directorate of Geology and Mining with date	Rc.No:3851/MM7/2021, dated : 03.01.2022
17.	500mts letter approved by the Assistant Director(i/c), Department of Geology and Mining with date	Rc.No:118/2021/mines, dated:27.01.2022
18.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression & Green Belt (in KLD)	2.7 KLD 0.5 KLD 1.2 KLD 1.0 LD
19.	Power requirement: a. Domestic purpose b. Machinery works	TNEB -
20.	Depth of Mining	22m
21.	Depth of Water table	55-60m
22.	Whether any habitation within 300m distance	No
23.	Project cost (including EMP cost)	139.70 Lakhs
24.	EMP cost	Capital cost- 6.80 Lakhs Recurring cost- 16.62 lakhs
25.	CER cost	5 lakhs

26.	VAO letter dated	19.01.2022
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Earlier, this proposal was placed for appraisal in this 280<sup>th</sup> meeting of SEAC held on 02.06.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.


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

(ii) The project proponent shall submit NOC from PWD, since PAP Canal is located abutting the project on the Northern side.

Now, the Proponent has furnished the NOC from DFO vide letter dt: 05.07.2022 and NOC from PWD vide letter dt: 22.06.2022. Hence, the proposal was placed for reappraisal in this 307<sup>th</sup> meeting of SEAC held 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, 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 project proponent shall operate the mines by appointing the qualified Mine Manager possessing the First Class (or) Second class mines manager's certificate of competency issued by DGMS under MMR 1961.
3. The PP shall carry out the Initial and Periodical Medical Examinations to all the persons employed in the mine including the contractual labours, as per the provisions of Mines Rules, 1955.
4. The PP shall conduct the Occupational health survey for all the persons employed in the mine including contractual labours and maintain the record indicating the status of their health condition.

  
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5. The PP shall carry out the required measures to ensure that the persons employed in the mine are comprehensively aware of the consequences of health impacts arise from working with quartz and feldspar deposits.
6. The PP shall make necessary arrangements for all the persons working in the mine are adequately trained on Prevention of Silicosis in the programme conducted by the DGMS approved Vocational Training Centre located in Trichy/Salem.
7. The PP shall carryout the Occupational Health Survey of the persons living within 1 km radius annually and maintain the record indicating the status of their health condition.
8. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
9. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Panchayath Union Primary School, Sellappagoundanvalasu Village before obtaining CTO from TNPCB.

**Agenda No.307 – 14.**

**(File No. 9017/2022)**

**Proposed Rough stone and Gravel quarry project over an extent of 4.52.0 Ha in S.F.Nos. 3/1, 3/2 & 4/1 of Viralipatti Village, Nilakkottai Taluk, Dindigul District, Tamil Nadu by Thiru Adyar Granites - For Environmental Clearance**

**(SIA/TN/MIN/254415/2022 dated: 17.02.2022)**

Earlier, this proposal was placed in this 281<sup>st</sup> Meeting of SEAC held on 03.06.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**


1. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

Sl. No	Details of the proposal	
1	Name of the Owner/Firm	: Tvl.Adyar Granites Reg Office. No.15/113-2 KBC Complex Laikkadu, Perunai Post Changanacherry, Kattiyam Kerala State-626102

  
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2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone & Gravel
3	S.F No. Of the quarry site with area break-up	:	3/1, 3/2 & 4/1
4	Village in which situated	:	Viralipatti
5	Taluk in which situated	:	Nilakottai
6	District in which situated	:	Dindigul
7	Extent of quarry (in ha.)	:	4.52.0Ha
8	Latitude & Longitude of all corners of the quarry site	:	10°07'02.42"N to 10°07'13.50"N 77°45'00.91"E to 77°45'08.34"E
9	Topo Sheet No.	:	58 - F/16
10	Type of mining	:	Opencast Mechanized Method of Mining
11	Period of quarrying proposed	:	10 years
12	Production (Quantity in m <sup>3</sup> )	:	As per mining plan, the lease period is 10 years. The mining plan is for the period of 10 years & the production should not exceed 758190 Cu.m. of Rough Stone, 50763 Cu.m of Gravel and 31995 cu.m. of Weathered Rock. The annual peak production 86610 Cu.m. of Rough Stone (4 <sup>th</sup> year), 17851.5 Cu.m of Gravel (2 <sup>nd</sup> year) and 11415 Cu.m. of Weathered Rock (2 <sup>nd</sup> year). The ultimate depth - 47.5 m BGL.
13	Depth of quarrying	:	47.5m below ground level
14	Depth of water table	:	66m-61m BGL
15	Man Power requirement per day:	:	38 Nos.
16	Source of Water Requirement	:	water vendors & Borewell
17	Water requirement: 5. Drinking & domestic purposes (in KLD) 6. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	3.3KLD 0.8 KLD 1.5 KLD 1.0 KLD
18	Power requirement a. Domestic Purpose	:	TNEB

  
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	b. Industrial Purpose		314478Liters of HSD
19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the, District Collector, Geology and Mining with date	:	Rc.No.169/2021(Kanimam), dt:11.11.2021
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Rc.No.169/2021(Mines), dt: 07.12.2021
22	Assistant Director, Department of Geology and Mining 500m cluster letter	:	Rc.No.169/2021(Mines), dt: 07.12.2021
23	VAO certificate regarding 300m radius cluster	:	Letter dt: 11.07.2022.
24	Project Cost (excluding EMP cost)	:	Rs.125.13 Lakhs
25	EMP cost	:	Capital - Rs.11.40Lakhs Rcurring Cost – Rs. 22.38 Lakhs
26	CER cost	:	Rs.5 Lakhs

Based on the presentation and document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.

1. The project proponent shall upload Mining Plan in parivesh portal website (parivesh.nic.in).
2. The project proponent shall furnish details of all the structures 300 m radial distance from the proposed quarry site.

The proponent has furnished reply vide lr. Dt: 14.07.2022. In this connection, the proposal was again placed in this 307<sup>th</sup> SEAC Meeting held 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 considering the safety aspect the ultimate depth of mining upto 47.5 m BGL and the quantity of 758190 Cu.m. of Rough Stone, 50763 Cu.m of Gravel and 31995 cu.m. of Weathered Rock 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 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. Within two years of the commencement of mining operations, the PP shall carry out the scientific studies on controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock, by involving a reputed Research and Academic Institution such as NIRM, 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 within two years of commencement of quarrying operations.
4. The Project Proponent (PP) shall submit an 'Action Plan' for carrying out the realignment of the benches in the existing quarry and shall also furnish a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease as the depth of the proposed quarry is exceeding 40 m after having approved by the concerned AD (Geology & Mines) to the DEE/TNPCB before obtaining CTO.
5. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 40 m (or) after the completion of 3 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.



6. The PP shall carry out the controlled blasting using jack hammer drilled holes (32-34 mm dia & 1.5 m length) and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation. The PP shall also ensure that the controlled blasting operation shall be carried in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. Further, the PP shall obtain prior permission to carry out aforesaid controlled blasting operation from the Director of Mines Safety (DMS), Chennai Region before obtaining the CTO.
7. The blasting activities shall be carried out safely under direct supervision of statutory competent person such as Blaster (or) Mine Mate who are directly employed by the PP.
8. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
9. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Adhidhiravidar Primary School, Viralipatti Village, Nilakottai Taluk, Dindigul as committed, before obtaining CTO from TNPCB.

**Agenda No. 307-15**

(File No. 9018/2022)

Proposed Gravel quarry lease over an extent of 3.20.0 Ha at S.F.Nos. 117/3, 117/4, 117/5 & 112 of T. Pudukkottai Village, Manamadurai Taluk, Sivagangai District, Tamil Nadu by Thiru.K.Neelamegam - For Environmental Clearance. (SIA/TN/MIN/257294/2022 dated 18.02.2022)

The proposal was placed in this 307<sup>th</sup> Meeting of SEAC held on 26.08.2022. 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/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

Sl. No.	Details of the proposal	
1.	Name of the Owner / Firm	Thiru.K.Neelamegam S/o.Karuppaiya

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		No.2/200, Vengalukurichi Vilangulathur, Muthukulathur Ramanathapuram District-623704
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Gravel Quarry
3.	S.F No. of the quarry site with area break-up	117/3, 117/4, 117/5 & 112
4.	Village in which situated	T.Pudukottai
5.	Taluk in which situated	Manamadurai
6.	District in which situated	Sivagangai
7.	Extent of Quarry (in ha.)	3.20.0 Ha
8.	Period of Quarrying proposed	One year
9.	Type of Mining	Opencast Mining of Shallow depth
10.	Production (Quantity in m <sup>3</sup> )	53784m <sup>3</sup> of Gravel
11.	Latitude & Longitude of all corners of the quarry site	09°37'17.15"N to 09°37'25.07"N 78°29'57.08"E to 78°30'07.52"E
12.	Topo sheet No.	58 - K/06&58-K/10
13.	Man power requirement per day:	8 Employees
14.	Precise Area Communication approved by Assistant Director , Department of G&M with date	Rc.No.M2/77/2019, dated:07.01.2022
15.	Mining plan approved by the Assistant Director, Department of Geology and Mining with date	Rc.No.M2/77/2019, dated:03.02.2022
16.	500mts letter approved by the Assistant Director, Department of Geology and Mining with date	Rc.No.M2/77/2019, dated:03.02.2022
17.	Water requirement: 3. Drinking & domestic purposed (in KLD) 4. Dust Suppression & Green Belt (in KLD)	2.1 KLD 0.4 KLD 1.0 KLD 0.7 KLD
18.	Power requirement: c. Domestic purpose d. Machinery works	TNEB 8960 liters of HSD for entire project life
19.	Depth of Mining	2 m BGL
20.	Depth of Water table	65-60 m
21.	Whether any habitation within 300m distance	No
22.	Project cost (including EMP cost)	20.09 Lakhs
23.	EMP cost	Capital cost INR- 4.85 lakhs Recurring cost INR- 6.46 lakhs
24.	CER cost	2.5 lakhs
25.	VAO letter dated	04.02.2022

Earlier, this proposal was placed in the 281<sup>st</sup> Meeting of SEAC held on 03.06.2022.

Based on the presentation and document furnished by the project proponent, SEAC

  
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decided to ask for the following additional details from the Project Proponent.

1. Letter from any accredited Mine Surveyor or Irrigation Department, indicating the distance from the proposed quarry site to the nearby river course.
2. The project proponent shall furnish soil analysis report obtained from **anyone of the following test laboratories** authorized by the Director of Geology and Mining.

Now, the proponent has furnished the soil analysis report vide letter dt: 13.06.2022 and mine surveyor letter dt: 29.06.2022. Hence, the proposal was placed for reappraisal in this 307<sup>th</sup> Meeting of SEAC held 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**, subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The proponent shall mandatorily appoint the statutory competent person in relevant to the proposed quarry size as per the provisions of Mines Act 1952.
3. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
5. 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.

  
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6. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
7. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
8. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. 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.
9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry as assured in the Environmental Management Plan & the approved Mine Closure Plan.
12. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.

13. 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.
14. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
15. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
16. 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.
17. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per.
18. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring health and welfare of the people working in the quarry and the surrounding habitants.
19. The project proponent shall ensure that the provisions of the 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.
20. 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.

21. 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.
22. 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.
23. 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.
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. 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.
26. 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.
27. As accepted by the Project Proponent the CER cost is Rs. 2.5 lakhs and the amount shall be spent for the committed activities for Government Higher Secondary School, Vethiyarendal village before obtaining CTO from TNPCB.

  
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Agenda No. 307-16

(File No. 9023/2022)

Proposed Brick Earth quarry lease over an extent of 1.18.5 Ha at S.F.Nos. 6/5B, 6/6A, 6/6B, 6/10A, 6/10C & 6/10G of Melparthibanur Village, Paramakudi Taluk, Ramanathapuram District, Tamil Nadu by Thiru .K. Pitchai - For Environmental clearance.(SIA/TN/MIN/256969/2022 dated 18.02.2022)

Earlier, this proposal was placed in the 281<sup>st</sup> Meeting of SEAC held on 03.06.2022.

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

The SEAC noted the following:

1. The project proponent, Thiru K. Pitchai has applied for Environmental Clearance for the proposed Brick Earth quarry lease over an extent of 1.18.5 Ha at S.F.Nos. 6/5B, 6/6A, 6/6B, 6/10A, 6/10C & 6/10G of Melparthibanur Village, Paramakudi Taluk, Ramanathapuram District, Tamil Nadu .
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

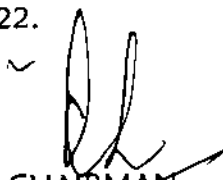
Based on the presentation and document furnished by the project proponent, SEAC has done detailed analysis with soil test report and found the sample contains silt & clay of 64%. The committee decided to ask for the following additional details from the Project Proponent.

- (i) The project proponent shall submit a revised 500m radius cluster certificate obtained from AD, Geology and Mining, since in letter submitted by the proponent the proposed quarry is mentioned as Nil.
- (ii) The proponent should produce a letter from the Department of Geology and Mining stating that the location of the quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not fall under any notified/declared protected zones in terms of Judgement issued by the Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021.

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

The project proponent submitted the detail to SEIAA on 27.06.2022.

  
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The proposal was placed in this 307th SEAC meeting held on 26.08.2022. Based on the presentation and document furnished by the project proponent, SEAC noted as follows:

1. The Assistant Director, Geology and Mining, Ramanathapuram vide Roc.No.623/G&M.1/2019 dated 17.06.2022 stating that:

*" in this connection, it is informed that the earth in the lease area predominantly contains silt & clay only and suitable for brick kiln purposes. Vaigai River is located about 320m on the NE side. No influence of this river by way of sand deposition is observed in the lease area and it does not fall within the protected area of the river. "*

2. There are 2 separate workable blocks namely Block -I & Block - II in the applied lease area with the following mineable reserves quantity.

Particular	Block -I	Block -II	Total
Surveys nos	6/10A,6/10C&6/10G	6/5B,6/6A & 6/6B	
Extent in Ha	0.70.00	0.48.50	1.18.5
Mineable reserves	1,805 Cu.m	2,716 Cu.m	4,521 Cu.m

The project proponent agreed for restricting the mining operation in Block -II , wherein 2,716 Cu.m reserves are available.

Sl. No.	Details of the proposal		
1.	Name of the Owner / Firm	Thiru. K. Pitchai Anandham Chamber Bricks Manamadurai Taluk Sivagangai District-630606	
2.	Type of quarrying	Brick Earth quarry	
3.	S.F No. of the quarry site with area break-up	6/5B, 6/6A, 6/6B, 6/10A, 6/10C & 6/10G	
4.	Village in which situated	Melaparthibanur Village	
5.	Taluk in which situated	Paramakudi Taluk	
6.	District in which situated	Ramanathapuram District	
7.	Extent of Quarry (in ha.)	1.18.5 Ha ( minable area 0.48.50 Ha- Block -II – S.F.No.6/5B,6/6A & 6/6B)	
8.	Period of Quarrying proposed	one years	
9.	Type of Mining	Opencast Semi Mechanized Mining	
10.	Production (Quantity in m <sup>3</sup> )	Particular	Block -II

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		Surveys nos	6/5B,6/6A & 6/6B
		Extent in Ha	0.48.50
		Mineable reserves	2,716 Cu.m
11.	Latitude & Longitude of all corners of the quarry site	09°37'51.11"N to 09°37'52.84"N 78°27'45."E to 78°27'49.82"E	
12.	Topo sheet No.	58 – K/6	
13.	Precise Area Communication approved by the District Collector	Rc.No.623/G&M.1/2019, Dated: 23.05.2020	
14.	Mining plan approved by the Deputy Director of Geology and Mining with date	Rc.No.623/G&M.1/2019, Dated: 10.08.2020	
15.	500mts letter approved by the Deputy Director of Geology and Mining with date	Roc.No.623/G&M.1/2019, Dated: 07.06.2022.	
16.	Depth of Mining	1.0m	
17.	Depth of Water table	14m BGL	
18.	Project cost	Rs. 11,44,500 -/-	
19.	EMP cost	Rs. 4.85 lakhs (capital cost) Rs.1.5 lakhs ( Recurring cost / annum)	
20.	CER cost	Rs. 2 lakhs	
21.	VAO letter dated	10.11.2021	

Based on the presentation and document furnished by the project proponent. After detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for restricting the quantity considering the safety and environment point of view of 2,716 Cu.m of Brick earth with an ultimate depth of mining is 1 m Below Ground Level only for Block -II with S.F. 6/5B,6/6A & 6/6B of 0.48.50 Ha as committed, 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 the competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The proponent shall mandatorily appoint the statutory competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952.

3. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
5. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, dump management, dump mining, mineral transportation mode, ultimate depth of mining etc.) shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
6. 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.
7. 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.
8. 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.
9. 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. 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.

10. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
11. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
12. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry as assured in the Environmental Management Plan & the approved Mine Closure Plan.
13. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
14. 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.
15. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
16. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village

Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

17. 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.
18. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
19. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring health and welfare of the people working in the mines and the surrounding habitants.
20. The project proponent shall ensure that the provisions of the 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.
21. 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.
22. 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.
23. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before

  
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starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.

24. 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.

25. 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.

26. 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.

27. 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 revised EMP as committed.

28. As accepted by the Project Proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the committed activities for Government Primary School, Sayalgudi, Kadaladi - Union, Ramanathapuram District before obtaining CTO from TNPCB.

**Agenda No. 307-17**

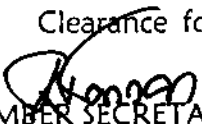
**(File No. 9027/2022)**

**Proposed Rough Stone & Gravel quarry lease over an extent of 0.80.0 Ha at S.F.No. 995/1A of Virachilai (Pit-I) Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu by Thiru R. Karuppia - For Environmental Clearance. (SIA/TN/MIN/257694/2022/dated 21.02.2022)**

The proposal was placed in this 307<sup>th</sup> Meeting of SEAC held on 26.8.22. 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. Karuppia has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an

  
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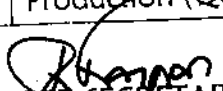
extent of 0.80.0 Ha at S.F.No.995/1A of Virachilai (Pit-I) Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier this proposal was placed in 281<sup>st</sup> SEAC meeting held on 03.06.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.

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

Now, the proposal was placed in this 307<sup>th</sup> Meeting of SEAC held on 26.8.22 and SEAC noted that

Sl. No	Details of the proposal	
1	Name of the Owner/Firm	: Thiru.R.Karuppiyah S/o.Ramathever D.No.5/33G, Arasamarathu Veethi Virachilai, Thirumayam Taluk Pudukkottai District-622412
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	: 995/1A
4	Village in which situated	: Virachilai (Pit-I)
5	Taluk in which situated	: Thirumayam
6	District in which situated	: Pudukkottai
7	Extent of quarry (in ha.)	: 0.80.0Ha
8	Latitude & Longitude of all corners of the quarry site	: 10°47'10.07"N to 10°47'13.76"N 78°43'21.50"N to 78°43'25.65" N
9	Topo Sheet No.	: 58 J/11
10	Type of mining	: Opencast Manual Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m <sup>3</sup> )	: 38,063 m <sup>3</sup> of rough stone

  
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			(5years) & 5,148 m <sup>3</sup> of gravel (3 years)
13	Depth of quarrying	:	22m BGL in section X1Y1-AB (Existing – 5m & Proposed - 17m Rough stone) and 17m BGL in Section X2Y2-AB (2m Gravel + 15m Rough stone)
14	Depth of water table	:	30m
15	Man Power requirement per day:		16 Nos.
17	Water requirement: 7. Drinking & Utilized water purposes 8. Dust suppression 9. Green Belt	:	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD
18	Power requirement a. Domestic Purposes		TNEB
20	Precise area communication approved by the, Assistant Director, with date	:	Rc.No. 148/ 2021 (G&M), dated: 03.01.2022
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Rc.No. 148/ 2021 (G&M), dated: 31.01.2022
22	Assistant Director, Department of Geology and Mining 500m cluster letter		Rc.No. 148/ 2021 (G&M), dated: 31.01.2022
23	VAO certificate regarding 300m radius cluster		Letter dated: 03.02.2022
24	Project Cost (excluding EMP cost)	:	Rs.20.50,000
25	EMP cost	:	Capital Cost - Rs.14,16,800 Recurring Cost – Rs.6,48,000
26	CER cost		5 lakhs As per SEAC Minutes

Based on the reply furnished by PP, the proposal was again placed in 307<sup>th</sup> SEAC meeting held 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 quantity of 38,063m<sup>3</sup> of Rough Stone & 5,148 m<sup>3</sup> of Gravel and for an annual peak production of 6,445m<sup>3</sup> of Rough Stone (2<sup>nd</sup> Year) & 1716 m<sup>3</sup> (1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> Year) upto a depth of 22m BGL in section X1Y1-AB and 17m

  
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**BGL in Section X2Y2-AB**, 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 No. S.O. 1807(E) Dt12.4.2022.
2. The PP shall send the 'Notice of Opening' of the Quarry & commencement of mining operations to the Asst Director (Mines), DEE/TNPCB and DMS, Chennai Region before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
4. The PP shall carry out the controlled blasting using jack hammer drilled holes (32-34 mm dia & 1.5 m length) of not more than 50 holes / round and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation. The PP shall also ensure that the controlled blasting operation shall be carried in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. Further, the PP shall obtain prior permission to carry out aforesaid controlled blasting operation from the Director of Mines Safety (DMS), Chennai Region before obtaining the CTO.
5. The blasting activities shall be carried out safely under direct supervision of statutory competent person such as Blaster (or) Mine Mate who are directly employed by the PP.
6. The PP shall develop the Greenbelt by planting suitable species as cited by the SEAC in the safety zone to be left statutorily around the quarry limit for a width of 7.5 m / 10 m as per the approved Mining Plan.
7. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated:

  
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30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

8. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Middle School, Virachilai Village before obtaining CTO from TNPCB.

**Agenda No: 307-18**

**(File No. 9070/2022)**

**Proposed Rough Stone & Gravel quarry over an extent of 2.85.5 Ha in S.F.Nos. 31/1A1A, 31/1A3A, 31/1A3B, 38/1B, 38/1C, 38/3A1A, 38/3A1B, 38/3A2, 38/3B1, 38/3B2, 38/3B5, 38/3B6, 38/3B7, 38/3B4, 38/3B3, 38/3C, 38/4B & 38/4C of Kallanai Village, Kallikudi Taluk, Madurai District, Tamil Nadu by M/s. Suganya Blue Metals for Environmental Clearance. (SIA/TN/MIN/259085/2022 dated 01.03.2022)**

The proposal was placed in this 307<sup>th</sup> Meeting of SEAC held on 26.08.2022. The project proponent gave detailed presentation.

The SEAC noted the following:

1. The project proponent, M/s. Suganya Blue Metals has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry over an extent of 2.85.5 Ha in S.F.Nos. 31/1A1A, 31/1A3A, 31/1A3B, 38/1B, 38/1C, 38/3A1A, 38/3A1B, 38/3A2, 38/3B1, 38/3B2, 38/3B5, 38/3B6, 38/3B7, 38/3B4, 38/3B3, 38/3C, 38/4B & 38/4C of Kallanai Village, Kallikudi Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the project are as follows:

Sl. No.	Details of the proposal	
1	Name of the Owner/Firm	: Tvl.Suganya Blue Metals, No.13/4A2, Achankulam, Nedungulam, Mela Uppiligundu Post, Kallikudi Taluk, Madurai District, Tamil Nadu-625022.
2	Type of quarrying (Savudu/Rough Stone/Sand/Earth/Granite)	: Rough stone & Gravel quarry
3	S.F No. Of the quarry site	: 31/1A1A, 31/1A3A, 31/1A3B, 38/1B, 38/1C, 38/3A1A, 38/3A1B, 38/3A2, 38/3B1, 38/3B2, 38/3B3, 38/3B4, 38/3B5.

  
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		38/3B6, 38/3B7, 38/3C, 38/4B & 38/4C
4	Village in which situated	: Kallanai
5	Taluk in which situated	: Kallikudi
6	District in which situated	: Madurai
7	Extent of quarry (in ha.)	: 2.85.5 Ha (Patta land)
8	Period of quarrying proposed	: 10 years
9	Type of mining	Opencast mechanized mining
10	Production (Quantity in m <sup>3</sup> )	: As per mining plan the lease period is 10 years. The mining plan is for the period of 10 years and the production should not exceed 6,06,970 cu.m. of Rough Stone and 48,216cu.m. of Gravel. The annual peak production 68175 cu.m. of Rough Stone (9 <sup>th</sup> year) and 29400 cu.m. of Gravel (3 <sup>rd</sup> year). The ultimate depth 67 metres below ground level.
11	Latitude & Longitude of all corners of the quarry site	: 09°45'48.32"N to 09°45'55.91"N 78°03'00.56"E to 78°03'07.61"E
12	Topo Sheet No.	: 58 K/01
13	Man Power requirement per day:	34 Employees
14	Precise area communication approved by the District Collector, Madurai with date	: Na.Ka.En.400/Kanimam/2021, Dated: 04.10.2021
15	Revised Mining Plan approved by the Deputy Director, Department of G&M with date	: Roc.No.400/Mines/2021 (Mines), Dated: 07.07.2022
16	500m cluster letter approved by the Deputy Director, Department of G&M with date	Roc.No.400/Mines/2021 (Mines), Dated: 20.01.2022
17	Water requirement: 10. Drinking & domestic purposes 11. Dust suppression 12. Green Belt	: 2.50 KLD 0.50 KLD 1.50 KLD 0.5 KLD
18	Power requirement	: 261202 liters of HSD for entire project life
18	Depth of quarrying	: 67m BGL
19	Depth of water table	: 78m - 68m
20	Whether any habitation within 300m distance	: No
21	Project Cost (excluding EMP cost)	: Rs.84.87 Lakhs
22	EMP cost	: Rs.7.6 Lakhs
22	CER cost	Rs.5 Lakhs
23	VAO certificate regarding 300m radius cluster	Enclosed – nil dated

Earlier the proposal was placed in 282<sup>nd</sup> SEAC meeting. In that meeting, based on the details & documents furnished by the PP, the Committee decided to get the following details from the PP.

  
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1. Details of odai(water course) viz nature of odai, origin, category etc.,
2. The PP shall furnish the revised mining plan after leaving necessary safety distance for the Odai & same shall be approved by competent authority.

Now, the proposal was placed in this 307<sup>th</sup> SEAC meeting. The PP submitted the following:

1. A letter dated.25.06.2022 obtained from **Executive Engineer, Kundar Basin Division**, Water Resource Department, Madurai District.
2. A letter 30.06.2022 obtained from **Deputy Director, Dept.of Geology and Mining**, Madurai.
3. **Revised mine plan** approved by Deputy Director, Geology and mining, Madurai.


Based on the documents & details furnished by the project proponent SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production 6,06,970 cu.m. of Rough Stone and 48,216cu.m. of Gravel for a ultimate depth of 67 BGL for a period of ten years and the annual peak production 68175 cu.m. of Rough Stone (9<sup>th</sup> year) and 29400 cu.m. of Gravel (3<sup>rd</sup> year) 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 send the 'Notice of Opening' of the Quarry & commencement of mining operations to the Asst Director (Mines), DEE/TNPCB and DMS, Chennai Region before obtaining the CTO.
3. The PP shall develop the Greenbelt by planting suitable species as cited by the SEAC in the safety zone to be left statutorily around the quarry limit for a width of 7.5 m / 10 m as per the approved Mining Plan.

  
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4. 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.
5. The PP shall get the slope stability action plan approved by the concerned AD (Mines) for the systematic working by maintaining proper benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m and submit it to the DEE/TNPCB before obtaining CTO.
6. 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 touched 40 m below ground level (or) during the 4th year whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IIT-Chennai, NIT Surathkal – Dept of Mining Engg. 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.
7. Since 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) and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
8. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 Nos of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
9. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

  
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10. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent on the committed activities as follows towards Panchayat Union Primary School, Kallikudi, Madurai before obtaining CTO from TNPCB.

**Agenda No. 307 – 19.**

**(File No. 9073/2022)**

**Proposed Gravel quarry over an extent of 2.29.0 Ha in S.F.Nos. 156/2A, 156/2B of Erakkalavellore Village, Thiruppuvnam Taluk, Sivgangai District, Tamil Nadu by Thiru K. Jayachandran for Environmental Clearance.(SIA/TN/MIN/258987/2022 dated 28.02.2022)**

Earlier, this proposal was placed in this 282<sup>nd</sup> Meeting of SEAC held on 04.06.2022. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

SEAC noted the following

Sl. No	Details of the proposal	
1	Name of the Owner/Firm	: Thiru.K.Jayachandran, S/o.Karuppaiya, No.14/5, Muthu Nagar, Avaniyapuram, Madurai District - 625012
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Gravel
3	S.F No. Of the quarry site with area break-up	: 156/2A, 156/2B
4	Village in which situated	: Erakkalavellore
5	Taluk in which situated	: Thiruppuvnam
6	District in which situated	: Sivgangai
7	Extent of quarry (in ha.)	: 2.29.0Ha
8	Latitude & Longitude of all corners of the quarry site	: 09°46'14.56"N to 09°46'23.17"N 78°08'20.54"E to 78°08'27.02"E
9	Topo Sheet No.	: 58 – K/01
10	Type of mining	: Opencast Method of Shallow depth
11	Period of quarrying proposed	: 1 year
12	Production (Quantity in m <sup>3</sup> )	: As per the mining plan, the lease period is 1 year. The mining plan is for the period of 1 year & the production should not exceed

  
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			27640 cu.m. of Gravel. The maximum depth of mining would be 2 metres below ground level.
13	Depth of quarrying	:	2m below ground level
14	Depth of water table	:	41m-46m BGL
15	Man Power requirement per day:		8 Nos.
16	Source of Water Requirement		water vendors & Borewell
17	Water requirement: 13. Drinking & domestic purposes (in KLD) 14. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	1.7 KLD 0.2 KLD 1.0 KLD 0.5 KLD
18	Power requirement a. Domestic Purpose b. Industrial Purpose		TNEB 4610Liters of HSD
19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the, Assistant Director, Geology and Mining with date	:	Rc.No.M2/76/2019, dt:01.02.2022
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Rc.No.M2/76/2019, dt:16.02.2022
22	Assistant Director, Department of Geology and Mining 500m cluster letter		Rc.No.M2/76/2019, dt:16.02.2022
23	VAO certificate regarding 300m radius cluster		Letter dt: 11.02.2022
24	Project Cost (excluding EMP cost)	:	Rs.18.94 Lakhs
25	EMP cost	:	Rs.5.20 Lakhs
26	CER cost		Rs.2.00 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC noted that the PP has not furnished soil analysis report analyzed Geology & Mining. hence Committee decided to get the following details from the PP.

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

1.	Regional Testing Laboratory, Mellur, Industrial Estate, K. Pudur, Madurai – 625020.
2.	Department of Civil Engineering, National Institute of Technology, Trichy – 620015.
3.	Division of Soil Mechanics and Foundation Engineering, Dept of Civil Engineering, Anna University, CEG, Guindy, Chennai – 600025.

The proponent has furnished reply vide Ir. Dt: 14.07.2022. In this connection, the proposal was again placed in this 307<sup>th</sup> SEAC Meeting held 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** considering the safety aspect the ultimate depth of mining upto 2 m BGL and the quantity of 27640 Cu.m. of Gravel subject to the standard conditions & 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 the competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The proponent shall mandatorily appoint the statutory competent person in relevant to the proposed quarry size as per the provisions of Mines Act 1952.
3. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.

  
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5. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, dump management, dump mining, mineral transportation mode, ultimate depth of mining etc.) shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
6. 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.
7. 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.
8. 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.
9. 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. 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.

  
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10. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
11. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
12. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarries as assured in the Environmental Management Plan & the approved Mine Closure Plan.
13. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
14. 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.
15. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
16. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per

IRC Guidelines with respect to complying with traffic congestion and density.

17. 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.
18. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
19. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring health and welfare of the people working in the mines and the surrounding habitants.
20. The project proponent shall ensure that the provisions of the 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.
21. 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.
22. 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.
23. 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.
24. 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.

25. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. The Project Proponent shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines (IBM) from time to time.
26. 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.
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. 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.
29. 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.
30. As accepted by the Project proponent the CER cost is Rs. **2 lakhs** and the amount shall be spent for the Govt. High School, Kurandi, Thiruppuvanam Taluk, Sivagangai as committed, before obtaining CTO from TNPCB.

**Agenda No. 307-20**

**(File No. 9081/2022)**

**Proposed Rough Stone and Gravel quarry over an extent of 1.50.5 Ha in S.F.No. 156/2 of Velliraveli Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu by Thiru K.C. Ponnudurai for Environmental Clearance (SIA/TN/MIN/259920/2022 dated 05.03.2022)**

  
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The proposal was placed in this 307<sup>th</sup> Meeting of SEAC held on 26.08.2022. 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/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

Sl. No.	Details of the proposal	
1.	Name of the Owner / Firm	K.C.Ponnudurai S/o. Chennimalai Gounder, Merkku Thottam, Kaikolapalayam Perundurai Taluk Erode District- 638 056
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough Stone & Gravel quarry
3.	S.F No. of the quarry site with area break-up	156/2
4.	Village in which situated	Velliraveli
5.	Taluk in which situated	Uthukuli
6.	District in which situated	Tiruppur
7.	Extent of Quarry (in ha.)	1.50.5 ha
8.	Period of Quarrying proposed	Five years
9.	Type of Mining	Opencast Mechanized Mining
10.	Total Production (Quantity in m <sup>3</sup> )	77145m <sup>3</sup> of rough stone & 922 m <sup>3</sup> of gravel
11.	Annual peak production (Quantity in m <sup>3</sup> )	16830 m <sup>3</sup> of Rough Stone(5 <sup>th</sup> year) & 922 m <sup>3</sup> of Gravel (1 <sup>st</sup> year)
12.	Latitude & Longitude of all corners of the quarry site	11°16'13.87"N to 11°16'17.37"N 77°27'37.08"E to 77°27'44.59"E
13.	Topo sheet No.	58 - E/07
14.	Man power requirement per day:	18 Employees
15.	Precise Area Communication approved by Deputy Director, department of G&M, with date	Rc.No.556/mines/2021, dated:25.01.2022
16.	Mining plan approved by the Deputy Director, Department of Geology and Mining with date	Rc.No.556/mines/2021, dated:11.02.2022
17.	500mts letter approved by the Deputy Director, Department of Geology and Mining with date	Rc.No.556/mines/2021, dated:16.02.2022
18.	Water requirement:	1.5 KLD

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	1. Drinking & domestic purposed (in KLD)	0.3 KLD
	2. Dust Suppression & Green Belt (in KLD)	0.7 KLD 0.5 K LD
19.	Power requirement: a. Domestic purpose b. Machinery works	TNEB 61862 Liters of HSD will be utilized for
20.	Depth of Mining	32m
21.	Depth of Water table	70-65m
22.	Whether any habitation within 300m distance	No
23.	Project cost (including EMP cost)	31.02 Lakhs
24.	EMP cost	3.80 Lakhs
25.	CER cost	5 lakhs
26.	VAO letter dated	23.01.2022

Earlier, this proposal was placed in this 282<sup>nd</sup> Meeting of SEAC held on 04.06.2022. Based on the presentation & documents furnished by the project proponent, SEAC decided to obtain following details from the PP.

1. Certified compliance report received from MoEF&CC/TNPCB on the existing EC issued.
2. The PP shall furnish slope stability action plan for the planned working benches and also for the realignment of benches in the existing quarry.

Now, the proponent has furnished the Certified Compliance report from MoEF&CC/TNPCB Dt: 29.06.2022, slope stability action plan and greenbelt details. Hence, the proposal was placed for reappraisal in this 307<sup>th</sup> Meeting of SEAC held on 26.08.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance**, subject to the standard conditions as per the **Annexure –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 send the 'Notice of Opening' of the Quarry & commencement of

mining operations to the Asst Director (Mines), DEE/TNPCB and DMS, Chennai Region before obtaining the CTO.

3. The PP shall carry out the controlled blasting using jack hammer drilled holes (32-34 mm dia & 1.5 m length) of not more than 50 holes / round and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation. The PP shall also ensure that the controlled blasting operation shall be carried in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. Further, the PP shall obtain prior permission to carry out aforesaid controlled blasting operation from the Director of Mines Safety (DMS), Chennai Region before obtaining the CTO.
4. The PP shall appoint the qualified Mine Manager and other statutory competent person (Blaster or Mine Mate) for carrying out the blasting operation.
5. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
6. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent the following activities for Panchayath Union Primary School Uthukuli, Tiruppur before obtaining CTO from TNPCB.

**Agenda No: 307-21**


**(File No: 9082/2022)**

**Proposed Gravel quarry lease over an extent of 1.76.0Ha in S.F.No: 803/2 of Karamadai Village, Mettupalayam Taluk, Coimbatore District by Thiru. K.Sundararaj - For Environment Clearance. (SIA/TN/MIN/ 261125/2022 dated 04.06.2022)**

The proposal was earlier placed for appraisal in 282<sup>nd</sup> meeting of SEAC held on 04.06.2022. 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/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006, as

  
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amended.

Sl. No	Details of the proposal	
1.	Name of the Owner/Firm	: Thiru. K.Sundararaj , S/o.Karuppanna Gounder, Somayanur, Chinnathadagam Coimbatore District- 641 108
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Gravel
3.	S.F No. Of the quarry site with area break-up	: 803/2
4.	Village	: Karamadai
5.	Taluk	: Mettupalayam
6.	District	: Coimbatore
7.	Extent of quarry (in ha.)	: 1.76.0 Ha (patta land)
8.	Period of quarrying proposed	: 3 years
9.	Type of mining	: Open Cast Mechanized Mining
10.	Production (Quantity in m3)	: As per the mining plan, the lease period is 3 years and the production for 3 years not to exceed 25,092 m <sup>3</sup> of Gravel for an ultimate depth of 2m below ground level. The Annual peak production as per mining plan is 8772 m <sup>3</sup> of Gravel (1 <sup>st</sup> year).
11.	Depth of quarrying	: 2m below ground level
12.	Latitude & Longitude of all corners of the quarry site	: 11°14'50.52"N to 11°14'55.44"N 76°56'11.61"E to 76°56'16.05"E
13.	Topo Sheet No.	: 58 A/16
14.	Man Power requirement per day	: 08 Nos.
15.	Precise area communication	: Roc.No.1409/Mines/2021, Dated: 24.02.2022
16.	Mining Plan Approval	: Roc.No. 1409/Mines/2021, Dated: 01.03.2022
17.	500m cluster letter	: Roc.No. 1409/Mines/2021, Dated: 01.03.2022
18.	Water requirement	: 1.20 kLD
19.	Power requirement for domestic purpose	: TNEB
20.	Depth of water table	: 65m-70m
21.	Whether any habitation within 300m distance	: No as per the VAO letter dated 28.02.2022
22.	Project Cost (including EMP cost)	: Rs. 21,67,000/-
23.	EMP cost	: Capital cost Rs. 4,85,000/- Recurring cost Rs. 6,46,600/-
24.	CER cost	: -

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25.	VAO certificate regarding habitation within 300m radius	Letter dated 28.02.2022
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Based on the presentation and documents furnished by the project proponent, SEAC noted that the project proponent has not furnished soil analysis report authorized by Department of Geology & Mining, hence Committee decided to get the following details from the PP.

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


1.	Regional Testing Laboratory, 59, Avinashi Road, Villankurichi, Coimbatore - 64101.
2.	Department of Civil Engineering, Govt College of Technology, Coimbatore - 620015.
3.	Department of Civil Engineering, Govt College of Engineering, Karuppur, Salem - 636011.

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

Proponent submitted the additional particulars sought vide letter dated 25.07.2022. Hence the subject was placed before the Committee in this 307<sup>th</sup> meeting of SEAC held on 27.08.2022.

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 production of 25,092 m<sup>3</sup> of Gravel to an ultimate depth of 2m BGL for a period of three years** with an annual peak production capacity of 8772 m<sup>3</sup> of Gravel (1<sup>st</sup> year) as per the mining plan subject to the standard conditions & 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 the competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The proponent shall mandatorily appoint the statutory competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952.

  
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3. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
5. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, dump management, dump mining, mineral transportation mode, ultimate depth of mining etc.) shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
6. 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.
7. 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.
8. 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.
9. 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. 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.

10. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
11. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs.  
(iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
12. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarries as assured in the Environmental Management Plan & the approved Mine Closure Plan.
13. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
14. 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.
15. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
16. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are

passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

17. 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.
18. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
19. 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.
20. The project proponent shall ensure that the provisions of the 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.
21. 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 (TNPCE) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
22. 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.
23. 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.

  
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24. 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.
25. 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.
26. 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.
27. 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 furnished.
28. As accepted by the Project proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

**Agenda No: 307-22**

**(File No: 9088/2022)**

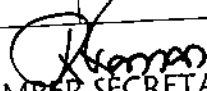
**Proposed Gravel quarry lease over an extent of 2.50.0 Ha at S.F.No. 202/3 (Part) of Jeyamkondanilai Village, Singampunari Taluk, Sivagangai District, Tamil Nadu by Thiru. D. Ragupandiyan- for Environmental Clearance.(SIA/ TN/ MIN/ 261283/2022 dated 11.03.2022)**

The proposal was placed in this 307<sup>th</sup> Meeting of SEAC held on 26.08.2022. 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/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification.2006.

Sl. No.	Details of the proposal	
1.	Name of the Owner / Firm	Thiru.D. Ragupandiyan No. 34/1, 3rd Street

  
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		Kovalan Nagar, TVS Nagar Madurai District – 625 003
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Gravel Quarry
3.	S.F No. of the quarry site with area break-up	202/3 (Part)
4.	Village in which situated	Jeyamkondanilai
5.	Taluk in which situated	Singampunari
6.	District in which situated	Sivagangai
7.	Extent of Quarry (in ha.)	2.50.0 Ha
8.	Period of Quarrying proposed	One year
9.	Type of Mining	Opencast Mechanized Mining
10.	Production (Quantity in m <sup>3</sup> )	40530m <sup>3</sup> of Gravel
11.	Latitude & Longitude of all corners of the quarry site	10°02'22.22"N to 10°02'28.58"N 78°26'20.98"E to 78°26'29.21"E
12.	Topo sheet No.	58 - J/08
13.	Man power requirement per day:	9 Employees
14.	Precise Area Communication approved by District Collector , with date	Rc.No.M2/436/2021, dated: 03.02.2022
15.	Mining plan approved by the Assistant / Deputy Director, with date	Rc.No.M2/436/2021, dated: 07.02.2022
16.	500mts letter approved by the Assistant Director ,Department of Geology and Mining with date	Rc.No.M2/436/2021, dated: 07.02.2022
17.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression & Green Belt (in KLD)	1.2KLD 0.3 KLD 0.5 KLD 0.4 KLD
18.	Power requirement: a. Domestic purpose b. Machinery works	TNEB 6760 liters of HSD for entire project life
19.	Depth of Mining	2 m BGL
20.	Depth of Water table	46-41m
21.	Whether any habitation within 300m distance	No
22.	Project cost (including EMP cost)	21.72 Lakhs
23.	EMP cost	Capital cost- 4.85 Lakhs Recurring cost- 6.41 lakhs
24.	CEB cost	2.0 lakhs

25. VAO letter dated	23.02.2022
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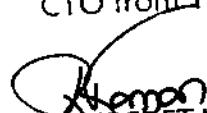
Earlier, this proposal was placed in the 283<sup>rd</sup> Meeting of SEAC held on 09.06.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.

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

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

Now, the proponent has furnished the soil analysis report vide letter dt: 29.06.2022. Hence, the proposal was placed for reappraisal in this 307<sup>th</sup> Meeting of SEAC held 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**, subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The proponent shall mandatorily appoint the statutory competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952.
3. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.

  
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4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
5. 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.
6. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
7. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
8. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. 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.
9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.

11. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry as assured in the Environmental Management Plan & the approved Mine Closure Plan.
12. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
13. 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.
14. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
15. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
16. 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.
17. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per.
18. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring health and welfare of the people working in the mines and the surrounding habitants.

  
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19. The project proponent shall ensure that the provisions of the 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.
20. 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.
21. 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.
22. 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.
23. 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.
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. 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.

26.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.

27.As accepted by the Project Proponent the CER cost is Rs. 2.0 lakhs and the amount shall be spent for the committed activities for Government Middle School, Jeyamkodanilai village before obtaining CTO from TNPCB.

**Agenda No: 307-23**

**(File No: 9095/2022)**

**Proposed Rough Stone & Gravel quarry lease over an extent of 2.65.18 Ha at S.F.No. 789/1B of Kulathur Village, Srirangam Taluk, Tiruchirappalli District, Tamil Nadu by Thiru. S.Vijayakumar - for Environmental Clearance. (SIA/ TN/ MIN/260219/2022 dated 15.03.2022).**

The proposal was placed in this 307<sup>th</sup> Meeting of SEAC held on 26.08.2022. 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/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification,2006.

Sl. No.	Details of the proposal	Data Furnished
1.	Name of the Owner / Firm	Mr.S.Vijayakumar S/o/(Late) Mr.N.Swaminathan No.10,Collector Office Road, Cantonment Tiruchirappalli - 620 001
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough Stone & Gravel quarry
3.	S.F No. of the quarry site with area break-up	789/1B
4.	Village in which situated	Kulathur
5.	Taluk in which situated	Srirangam
6.	District in which situated	Tiruchirappalli
7.	Extent of Quarry (in ha.)	2.65.18Ha
8.	Period of Quarrying proposed	Five years
9.	Type of Mining	Opencast Mechanized Mining
10.	Total Production (Quantity in m <sup>3</sup> )	366028 m <sup>3</sup> of rough stone & 12852 m <sup>3</sup> of gravel
11.	Annual peak production (Quantity in m <sup>3</sup> )	75010 m <sup>3</sup> of Rough Stone(5 <sup>th</sup> year) & 4998 m <sup>3</sup> of Gravel (1 <sup>st</sup> year)
12.	Latitude & Longitude of all corners	10°40'37.86232"N to


  
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	of the quarry site	10°40'44.89562"N 78°32'7.26062"E to 72°32'19.48800"E
13.	Topo sheet No.	58 - J/10
14.	Man power requirement per day:	28Employees
15.	Precise Area Communication approved by Assistant Director, department of G&M , District Collocter , with date	Na.Ka.No. 520/2021/ Kanimam , dated: 20.01.2022
16.	Mining plan approved by the Assistant Director, Department of Geology and Mining with date	Rc.No:520/2021/ mines, dated : 18.02.2022
17.	500mts letter approved by the Assistant Director,Department of Geology and Mining with date	Rc.No:520/2021/ mines, dated : 18.02.2022
18.	Water requirement: 3. Drinking & domestic purposed (in KLD) 4. Dust Suppression & Green Belt (in KLD)	3.3KLD  1.3 KLD 1.0 KLD 1.0 LD
19.	Power requirement: c. Domestic purpose d. Machinery works	TNEB 2,94,956Liters of HSD will be utilized for
20.	Depth of Mining	23m
21.	Depth of Water table	65-60m
22.	Whether any habitation within 300m distance	No
23.	Project cost (including EMP cost)	55.45 Lakhs
24.	EMP cost	Capital cost- 12.73 lakhs Recurring cost- 1.98 lakhs
25.	CER cost	5.5 lakhs
26.	VAO letter dated	14.03.2022

Earlier, this proposal was placed in the 283<sup>rd</sup> Meeting of SEAC held on 09.06.2022 Based on the presentation and documents furnished by the project proponent, SEAC noted that the Precise Area Communication Letter contained a condition that for first 3 years only gravel must be mined, which was not reflected in the mining plan. SEAC, therefore, decided to direct the PP to get either a revised Precise Area Communication Letter or a revised Mining Plan revised.

Now, the proponent has furnished the revised Precise Area Communication letter dt: 20.01.2022. Hence, the proposal was placed for reappraisal in this 307<sup>th</sup> Meeting of SEAC held on 26.08.2022. Based on the presentation and document furnished by

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

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The PP shall send the 'Notice of Opening' of the Quarry & commencement of mining operations to the Asst Director (Mines), DEE/TNPCB and DMS, Chennai Region before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
4. The PP shall ensure that the blasting operations are carried out under the supervision of the statutory competent person – Blaster (or) Mine Mate (or) Mine Foreman under the provisions of MMR 1961, employed directly by him.
5. The PP shall develop the Greenbelt by planting suitable species as cited by the SEAC in the safety zone to be left statutorily around the quarry limit for a width of 7.5 m / 10 m as per the approved Mining Plan.
6. The PP shall carry out the controlled blasting using jack hammer drilled holes (32-34 mm dia & 1.5 m length) of not more than 50 holes / round and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation. The PP shall also ensure that the controlled blasting operation shall be carried in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. Further, the PP shall obtain prior permission to carry out aforesaid controlled blasting operation from the Director of Mines Safety (DMS), Chennai Region before obtaining the

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7. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
8. As accepted by the Project Proponent the CER cost is Rs. 5.5 lakhs and the amount shall be spent the following activities for Government Higher Secondary School, Elamkulattur Village before obtaining CTO from TNPCB.

**Agenda No: 307- 24.**

**(File No: 9101/2022)**

**Proposed Gravel quarry lease over an extent of 1.23.0 Ha at S.F.No. 213/3A of Naduveerapattu Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu by Thiru.M.Ramalingam - For Environmental Clearance. (SIA/ TN/ MIN/ 261620/2022 dated 14.03.2022)**

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

**The SEAC noted the following:**

2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification,2006.

Sl. No.	Details of the proposal	
1	Name of the Owner/Firm	: Thiru . M.Ramalingam S/o. Masilamani No.6,Lakshmi Nagar Chellangkuppam Cuddalore Taluk Cuddlore - 607 003
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Gravel
3	S.F No. Of the quarry site with area break-up	: 213/3A
4	Village in which situated	: Naduveerapattu
5	Taluk in which situated	: Cuddalore
6	District in which situated	: Cuddalore
7	Extent of quarry (in ha.)	: 1.23.0Ha
8	Latitude & Longitude of all corners of the quarry site	: 11°42'47.85"N to 11°42'51.33"N 79°38'22.74"E to 79°38'28.38"E
9	Topo Sheet No.	: 58 – M/10

  
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10	Type of mining	Opencast Method of Shallow Mining
11	Period of quarrying proposed	: 2 years
12	Production (Quantity in m <sup>3</sup> )	: 17040m <sup>3</sup> of Gravel
13	Depth of quarrying	: 2m Above ground level
14	Depth of water table	: 20m-15m BGL
15	Man Power requirement per day:	10 Nos.
16	Source of Water Requirement	water vendors & Borewell
17	Water requirement: 15. Drinking & domestic purposes (in KLD) 16. Dust suppression, Green Belt & Wet Drilling (in KLD)	: 2.0 KLD 0.4 KLD 1.0 KLD 0.6 KLD
18	Power requirement a. Domestic Purpose b. Industrial Purpose	TNEB 5160Liters of HSD
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the. Assistant Director, Geology and Mining with date	: Rc.No.228/Mines/2021, dt:02.02.2022
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.228/Mines/2021, dt:17.08.2022
22	Assistant Director, Department of Geology and Mining 500m cluster letter	: Rc.No.228/Mines/2021, dt:18.02.2022
23	VAO certificate regarding 300m radius cluster	: Letter dt: 09.02.2022
24	Project Cost (excluding EMP cost)	: Rs.20.06 Lakhs
25	EMP cost	: Rs.17.15050 Lakhs
26	CER cost	: Rs.2.00 Lakhs

Based on the presentation and document furnished by the project proponent, SEAC noted that the project proponent have submitted application for depth of mining as 4m below ground level. As per MoEF OM dated 24<sup>th</sup> June 2013, "*The borrowing/excavation activity shall be restricted to a maximum depth of 2m below general ground level at the site*". Hence the Project proponent shall submit a revised mining plan accordingly.

  
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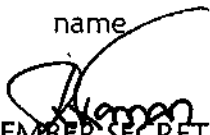
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The proponent has furnished reply vide Ir. Dt: 22.08.2022. In this connection, the proposal was again placed in this 307<sup>th</sup> SEAC Meeting held on 26.08.2022.


Based on the presentation and documents furnished by the project proponent, **SEAC decided to recommend the proposal for the grant of Environmental Clearance** considering the safety aspect the ultimate depth of mining upto 2 m BGL and the quantity of 17040 Cu.m. of Gravel subject to the standard conditions & 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 the competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The proponent shall mandatorily appoint the statutory competent person in relevant to the proposed quarry size as per the provisions of Mines Act 1952.
3. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
5. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, dump management, dump mining, mineral transportation mode, ultimate depth of mining etc.) shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other

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6. 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.
7. 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.
8. 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.
9. 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. 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.
10. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
11. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
12. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the

  
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abandonment of the granite quarry as assured in the Environmental Management Plan & the approved Mine Closure Plan.

13. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
14. 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.
15. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
16. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
17. 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.
18. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
19. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring health and welfare of the people working in the mines and the surrounding habitants.
20. The project proponent shall ensure that the provisions of the 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.

21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.

  
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28.As accepted by the Project proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the Govt. High School, Naduveerapattu, Cuddalore as committed, before obtaining CTO from TNPCB.

**Agenda No: 307-25**

**(File No: 7984/2021)**

**Proposed Rough Stone quarry lease area over an extent of Extent 2.00.0 Ha at SF.No. 416/35(Part-4), Vinnamangalam Village, Vellore Taluk, Vellore District, Tamil Nadu by Thiru K. Dineshkumar - For Environmental Clearance. (SIA/TN/MIN/180421/2020 Dt. 29.3.2021)**

The proposal was placed for appraisal in this 307<sup>th</sup> meeting of SEAC held on 26.08.2022. 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 K. Dineshkumar has applied for Environmental Clearance for the proposed Rough Stone quarry lease area over an extent of Extent 1.42.0Ha at SF.No. 416/35(Part-4), Vinnamangalam Village, Vellore Taluk, Vellore District, Tamil Nadu. It is a Govt. Promboke land.
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 for 5 years not to exceed 3,85,648 m<sup>3</sup> of Rough stone. The Annual peak production as per mining plan is 114026m<sup>3</sup> of rough stone with proposed depth of 51m(31m AGL + 20m BGL).
4. Earlier, this proposal was placed before 263<sup>rd</sup> meeting of SEAC held on 9.4.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the certain conditions.
5. Subsequently, it was placed before 508<sup>th</sup> SEIAA meeting held on 19.5.2022. After detailed discussion, the Authority decided to refer back the proposal to SEAC, after the receipt of following additional particulars with reference to project life (or) subject to a maximum of thirty years, whichever is

  
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earlier.

- a. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the following
    - a) Soil health & bio-diversity.
    - b) Climate change leading to Droughts, Floods etc.
    - c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature & Livelihood of the local people.
    - d) Possibilities of water contamination and impact on aquatic ecosystem health.
    - e) Agriculture, Forestry & Traditional practices.
  - b. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the project life (or) subject to a maximum of thirty years whichever is earlier.
  - c. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities.
  - d. Detailed Mine Closure Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
  - e. Detailed Environment Management Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
6. Based on the reply of PP for the above-mentioned queries raised in 508<sup>th</sup> SEIAA meeting held on 19.05.2022, the proposal was placed in 286<sup>th</sup> SEAC meeting held on 17.06.2022. During the meeting the EIA Coordinator has

stated that the proposed project site is located nearer to the Villakaradu RF and will produce the letter from DFO concerned stating the exact distance of RF with respect to the project site.

The proposal is for mining of Rough Stone and the salient features of the proposal are as follows:

Sl. No	Details of the proposal	
1.	Name of the Owner/Firm	: Thiru. K. Dineshkumar No.278, Lions School Street Advocate Ramanathan Nagar Tirupattur - 635 601
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone
3.	S.F No. Of the quarry site with area break-up	: 416/35(Part-4)
4.	Village in which situated	: Vinnamangalam
5.	Taluk in which situated	: Ambur
6.	District in which situated	: Vellore
7.	Extent of quarry (in ha.)	: 2.00.0 Ha
8.	Period of quarrying proposed	: 5 years
9.	Type of mining	: Opencast Semi- Mechanized mining
10.	Production (Quantity in m <sup>3</sup> )	: 3,85,648 m <sup>3</sup> of Rough stone
11.	Latitude & Longitude of all corners of the quarry site	: 12°43'20.74"N to 12°43'24.42"N & 78°41'33.94"E to 78°41'41.74"E
12.	Top Sheet No.	: 57- L/10
13.	Man Power requirement per day:	: 18 Nos
14.	Precise area communication approved by the District Collector, with date	: Na.Ka.No.370/2019(kanimam), dt: 26.11.2019
15.	Mining Plan and Scheme approved by the Assistant Director (i.c) of Geology and Mining with date	: Rc.No.370/2019 (Mines), dt: 15.09.2020
16.	500m cluster letter issued by Assistant Director (i/c), Department of Geology and Mining	: RC No.370/2019(Mines), dt: 10.09.2020
17.	Water requirement: 17. Drinking & domestic purposes (in KLD) 18. Dust suppression , Green Belt (in KLD)	: 1.81 KLD 0.81 KLD 0.5 KLD 0.5 KLD
18.	Power requirement c. Domestic Purpose d. Industrial Purpose	: TNEB 309875 Liters of HSD
19.	Depth of quarrying	: 51m (31m AGL + 20m BGL)

  
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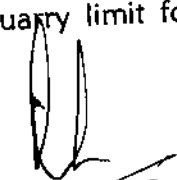
  
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20.	Depth of water table	:	66m
21.	VAO Letter Dated	:	letter Furnished
22.	Project Cost (Excluding EMP Cost)	:	Rs 69,55,000
23.	EMP cost	:	3.60 lakh
24.	CER cost		Rs. 5 lakhs as per SEAC minutes

Based on the presentation made by the PP, SEAC noted that the vellakkal RF of vaniyambadi range is situated at a distance of 1.30km from the proposed site vide Lr.C.No.2640/2022/D Dated: 12.08.2022. Hence, SEAC decided to recommend the proposal for the grant of Environmental Clearance for quantity of 3,85,648 m<sup>3</sup> of Rough Stone and for an annual peak production of 114026m<sup>3</sup> (1<sup>st</sup> Year) of Rough Stone up to a depth of 51m (31m AGL + 20m 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 No. S.O. 1807(E) Dt12.4.2022.
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 send the 'Notice of Opening' of the Quarry & commencement of mining operations to the Asst Director (Mines), DEE/TNPCB and DMS, Chennai Region before obtaining the CTO.
4. The PP shall ensure that the blasting operations are carried out under the supervision of the statutory competent person – Blaster (or) Mine Mate (or) Mine Foreman under the provisions of MMR 1961, employed directly by him.
5. The PP shall develop the Greenbelt by planting suitable species as cited by the SEAC in the safety zone to be left statutorily around the quarry limit for a width of 7.5 m / 10 m as per the approved Mining Plan.

  
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6. The PP shall carry out the controlled blasting using jack hammer drilled holes (32-34 mm dia & 1.5 m length) and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation. The PP shall also ensure that the controlled blasting operation shall be carried in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. Further, the PP shall obtain prior permission to carry out aforesaid controlled blasting operation from the Director of Mines Safety (DMS), Chennai Region before obtaining the CTO.
7. Within two years of the commencement of mining operations, the PP shall carry out the scientific studies on controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock, by involving a reputed Research and Academic Institution such as NIRM, 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.
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 as the depth of the proposed quarry is exceeding 30 m (AGL & BGL) after having approved by the AD (Geology & Mines) to the concerned DEE/TNPCB, before obtaining CTO.
9. However, the PP shall carry out the scientific studies to assess the slope stability of the working highwall benches and quarry wall during the 4th year, by involving a reputed Research and Academic Institution such as NIRM, IIT-Chennai, NIT-Dept of Mining Engg., Surathkal, Anna University Chennai-CEG Campus, and any other 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.
10. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as

  
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committed.

11. As accepted by the Project proponent the revised CER cost is Rs. 5 lakh and the amount shall be spent for following activities at Government Higher Secondary School in Minnur Village, before obtaining CTO from TNPCB.

Agenda No: 307-26

(File No: 8927/2022)

Proposed Rough stone quarry lease over an extent of 4.27.0 Ha S.F.No. 76/1A, 76/2, 76/4A, 76/6A, 76/7, 76/8A, 76/8B, 76/9, 76/10, 76/11, 76/12, 77/1, 77/2, 77/3 & 77/4, Palayaseevaram-B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu by Thiru.M.Antony Gomez - For Environmental Clearance. (SIA/TN/MIN/253470/2022 Dt. 27.01.2022)

The proposal was placed for appraisal in this 307th meeting of SEAC held on 26.08.2022. 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.M.Antony Gomez has applied for Environmental Clearance for the Rough stone quarry lease over an extent of 4.27.0 Ha in S.F.Nos: S.F.No. 76/1A, 76/2, 76/4A, 76/6A, 76/7, 76/8A, 76/8B, 76/9, 76/10, 76/11, 76/12, 77/1, 77/2, 77/3 & 77/4, Palayaseevaram-B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. 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 360750m<sup>3</sup> of Rough stone, 66875m<sup>3</sup> of weathered Rock & 26750m<sup>3</sup> of Gravel. The Annual peak production as per mining plan is 91670 m<sup>3</sup> of Rough stone (3rd year), 63440m<sup>3</sup> of weathered Rock (1st year) & 25376m<sup>3</sup> of Gravel (1st year) with proposed depth of 47m.

Earlier, this proposal was placed for appraisal in 196<sup>th</sup> meeting of SEAC held on 29.01.2021, 209<sup>th</sup> SEAC meeting held on 09.04.2021 & 234<sup>th</sup> meeting of SEAC held on 22.09.2021 vide application No 8009.

Based on the presentation made by the proponent, SEAC decided to seek the

  
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Proponent to obtain revised AD/Mines letter for 500m Cluster. The Project proponent furnished the above said details to SEIAA-TN on 05.03.2021. The subject was once again placed in the 209<sup>th</sup> SEAC meeting held on 09.04.2021. After detailed discussions, since there were three big water bodies surrounding the proposed site the Committee decided to make site visit to assess the actual

environmental settings in the site. In this connection, sub-committee inspected the site on 25.07.2021(Sunday) and submitted the inspection report to the SEAC for further course of action.

**Sub-Committee Observations during inspection:**

- An existing quarried pit (180m (Length) X 100m Width) was found at the proposed rough stone mining lease area abutting a water body (Tank) on the North Western side without bench formation and 50m safety distance from the said waterbody. (Photographs enclosed). In this connection, proponent informed that the said existing pit was mined by previous owner of the site.
- 3 Nos. tanks boundaries were observed near by the proposed mine lease area namely a ullavur tank at (North Eastern – 300 m), Kosapattu tank at (South Western Side - 100 m separated by a road in between proposed mine lease area) & a tank at (North – Western – abutting).
- A well observed in the proposed area.
- Cut down Palmyra/Panaimaram observed within the fenced area (annexure -1).
- Habitations were not found at the distance of 300 m.
- The proponent has fenced the proposed mining site all along the periphery of the site.
- The proponent has not earmarked mining area leaving a safety distance of 7.5 m all along the periphery of the site considering adjacent mining site (Quarry) and the abutting road.
- • The proponent has not developed green belt within the proposed mining site and no trees are now existing in the site.
- Photographs of inspection and the site is enclosed vide annexure

**1. Sub committee Recommendations:**

  
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1. The proponent shall submit mining proposal leaving 110m as safety distance including existing quarried pit (180m (Length) X 100m Width) on the Northwestern direction from the proposed mine lease area.
2. The proponent shall earmark mining area leaving a safety distance of 7.5 m on the adjacent sides of existing quarry on southern side and the abutting road on eastern side.
3. The proponent shall develop green belt with native trees under Miyawaki scheme all along the periphery of the site.
4. The proponent shall furnish proposal for abatement of fugitive emission arising from the proposed mining activity and vehicular movement.

In this connection, the proposal was again placed for appraisal in this 234<sup>th</sup> meeting of SEAC held on 22.09.2021. Based on the presentation and documents furnished by the project proponent, SEAC after detailed deliberations decided to recommend the proposal for the grant of issue of Environmental Clearance subject to the certain condition as stated therein.

Meanwhile, the PP has decided to withdraw the above said proposal File No 8009 and the withdrawal proposal was accepted by the SEIAA in 479<sup>th</sup> SEIAA meeting held on 26.10.2021.

Now the PP has applied for EC for the same proposal vide File No. 8927 without disclosing the past events (ie 8009). Therefore, SEAC in its 289<sup>th</sup> SEAC meeting held on 24.6.2022 has decided to call for the explanation of the PP as well as the consultant for not disclosing the relevant information and hiding the facts that are vital for examining the proposal.

The proposal was placed for reappraisal in this 307<sup>th</sup> meeting of SEAC held on 26.08.2022 since the proponent and consultant has furnished the explanation vide letter dt: 11.07.2022.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance reiterating the conditions already made in 234<sup>th</sup> SEAC meeting vide proposal No 8009 with some additional conditions:

  
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1. The ultimate depth of mining is restricted upto 37m below ground level is permitted for mining over five years considering the environmental impacts due to the mining, safety of the working personnel and following the principle of the sustainable mining.
2. The proponent shall leave safety distance of 100m on the Northwestern direction including existing quarried pit Approx. (185m (L) X 100m (W)) from  
  
the boundary of the proposed mine lease area, since a tank was noticed abutting proposed mine lease area in the northwestern direction.
3. If there is any seepage found entering from the tank, the proponent shall need to arrest the seepage through grouting technique or any other techniques.
4. The proponent shall stone crusher should not be
5. The proponent shall form proper benches as per the approved mining plan during the operation of the quarry considering the hydro-geological regime of the surrounding area as well as for safe mining.
6. The Proponent should install cautionary boards at the entry and important locations of the mining site displaying caution notice to the public about the danger of entering the mining lease.
7. The proponent shall conduct annual physical fitness test and eye test for all the employees to ensure health & safety during occupation.
8. Fugitive emission measurements should be carried out during the mining operation and the report on the same may be submitted to TNPCB once in sixmonths.
9. The PP shall carry out the controlled blasting using jack hammer drilled holes (32-34 mm dia & 1.5 m length) and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation. The PP shallalso ensure that the controlled blasting operation shall be carried in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the structures located at a distance of 700 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. Further, the PP shall obtain prior permission to carry out aforesaid controlled blasting operation from the Director of Mines Safety

(DMS), Chennai Region before obtaining the CTO.

10. The Project Proponent (PP) shall submit an 'Action Plan' for carrying out the realignment of the benches in the existing quarry pits and shall also furnish a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarrying operation to the office of concerned AD (Mines) before obtaining CTO from TNPCB.
11. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall during the 4th year, by involving a reputed Research and Academic Institution such as NIRM, IIT-Chennai, NIT-Dept of Mining Engg.,  
Surathkal, Anna University Chennai-CEG Campus, and any other 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.
12. The blasting activities shall be carried out safely under direct supervision of statutory competent person such as Blaster (or) Mine Mate who are directly employed by the PP.
13. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site and adequate noise level reduction measures be undertaken.
14. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit as per the conditions and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
15. Greenbelt needs to be developed in the periphery of the mines area of at least 3m width so that at the closure time the trees would have grown well.
16. Groundwater quality monitoring should be conducted once every six months and the report should be submitted to TNPCB.
17. After mining is completed, proper levelling should be done by the Project proponent & Environmental Management Plan furnished by the Proponent should be strictly followed.
18. The Project proponent shall strictly adhere to mine closure plan after ceasing mining operations as committed. Also, the proponent shall undertake re-

grassing of 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.

19. Proper barrier to reduce noise level, dust pollution and to hold down any possible fly material (debris) should be established by providing greenbelt and/or metal sheets along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
20. The operation of the quarry should not affect the agriculture activities & water bodies near the project site and a safety distance of 50m from the water body should be left vacant without any mining activity.
21. Transportation of the quarried materials shall not cause any hindrance to the Village people or damage to the existing Village Road.
22. The Project Proponent shall comply with the mining and other relevant rules and regulations wherever applicable.
23. The proponent shall develop an adequate greenbelt with native species on the periphery of the mine lease area before the commencement of the mining activity, in consultation with DFO of the concerned district/agriculture.
24. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be monitored by the District Authorities.
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.
26. 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.
27. As per the MoEF & CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP mentioning all the activities as proposed in the CER and furnish the same before replacing the subject to SEIAA.
28. All the conditions imposed by the Deputy Director, Geology & Mining, Kancheepuram District in the mining plan approval and the precise area

communication issued by District Collector, Kancheepuram District should be strictly followed.

Agenda No: 307-27

(File No: 9137/2022)

Proposed Ordinary Earth quarry lease over an extent of 1.10.0 Ha in S.F.No 736/3B, 736/4B, 736/4D, 736/4E and 736/5, Meyyur Village, Uthukkottai Taluk, Thiruvallur District, Tamil Nadu by Thiru. G.Purushothaman -For Environmental Clearance. (SIA/TN/MIN/264298/2022 Dt. 30.03.2022)

The proposal was placed for appraisal in this 307<sup>th</sup> meeting of SEAC held on 26.08.2022. 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/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

Sl. No.		
1.	Name of the Owner / Firm	Thiru. G.Purushothaman S/o. Govinthan No.301,Redhills road Magaral Kandigal Magaral Tiruvallur - 600052
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Ordinary Earth Quarry
3.	S.F No. of the quarry site with area break-up	736/3B, 736/4B, 736/4D, 736/4E and 736/5
4.	Village in which situated	Meyyur
5.	Taluk in which situated	Uthukkottai
6.	District in which situated	Thiruvallur
7.	Extent of Quarry (in ha.)	1.10.0Ha (patta land)
8.	Period of Quarrying proposed	One year
9.	Type of Mining	Opencast semi Mechanized Mining
10.	Production (Quantity in m <sup>3</sup> )	15,188 m <sup>3</sup> of Earth
11.	Latitude & Longitude of all corners of the quarry site	13°13'29.58"N to 13°13'33.08"N 79°56'17.35"E to 79°56'22.47"E
12.	Topo sheet No.	57 - O/16
13.	Man power requirement per day:	7Employees
14.	Precise Area Communication approved by District Collector , with date	Rc.No.168/2021/mines.2 dated: 03.02.2022
15.	Mining plan approved by the Assistant / Deputy Director,	Rc.No.163/2021/G&M.1 dated:01.03.2022

  
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	Department of Geology and Mining with date	
16.	500mts letter approved by the Deputy Director ,Department of Geology and Mining with date	Rc.No.163/2021/G&M-1 dated:01.03.2022
17.	Water requirement: 5. Drinking & domestic purposed (in KLD) 6. Dust Suppression & Green Belt (in KLD)	1.5KLD 0.5 KLD 0.5 KLD 0.5 KLD
18.	Power requirement: e. Domestic purpose f. Machinery works	TNEB -
19.	Depth of Mining	2 m BGL
20.	Depth of Water table	30 m
21.	Whether any habitation within 300m distance	No
22.	Project cost (including EMP cost)	7.43 Lakhs
23.	EMP cost	Capital cost- 1.6 lakhs Recurring cost- 2.10 lakhs
24.	CER cost	1.5 lakhs
25.	VAO letter dated	04.03.2022

Earlier, this proposal was placed in the 289<sup>th</sup> meeting of SEAC held on 24.06.2022. Based on the presentation made by the proponent SEAC decided to call for the following details from the PP.

1. The composition/component of the minerals proposed to be quarried shall be tested in any of the laboratories authorized by the Dept of Geology & Mining.
2. The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment.

Now, the proponent has furnished the soil analysis report vide letter dt: 18.05.2022 and letter from the Department of Geology and Mining dt: 25.07.2022. It states that there are no water bodies within the 50m radius in the applied areas. Hence, the proposal was placed for reappraisal in this 307<sup>th</sup> meeting of SEAC held on 26.08.2022. Based on the presentation made by the proponent and the documents,

  
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SEAC recommended to grant of Environmental Clearance for the production as per the mining plan, subject to the standard conditions & 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. Tree plantation & fencing around the mine lease area shall be completed before starting the production.
3. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952.
4. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
5. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
6. The Project proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of 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.
7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during

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

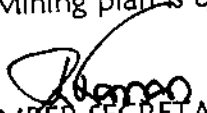
8. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
9. Proper 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.
10. 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. 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.
11. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper spacing as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
12. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
13. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
14. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate

  
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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.

15. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
16. 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.
17. 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.
18. 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.
19. 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.
20. The Project proponent shall comply with the provisions of the Mines Rules 1955 for ensuring health and welfare of the people working in the mines and the surrounding habitants.
21. The project proponent shall ensure that the provisions of the 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.
22. 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

  
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- same shall be informed to the District AD/DD(Geology and Mining) -District Environmental Engineer (TNPCCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
23. 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.
24. 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.
25. 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.
26. 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 Minutes.
27. 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.
28. As accepted by the Project proponent the CER cost is Rs. 1.5 lakhs and the amount shall be spent for the committed activities in Panchayath Union Primary School, Meyyur as committed, before obtaining CTO from TNPCCB.

**Agenda No: TA: 307-01**

**(File No:6439/2017)**

**Expansion in Production of Water based Latex Polymer from 40000 MTA to 70000 MTA & Latex Polymer cake from 407 MTA to 1462 MTA in two phase in existing Emulsion Plant by M/s. Dow Chemical International Private Limited located at Plot No. L-7, Sipcot Industrial Park (Phase II), Mambakkam Post, Sriperumbudur Village, Kanchipuram District, Tamil Nadu - For Environmental Clearance. (SIA/TN/IND2/21287/2017 dated: 07.12.2017)**

The proposal seeking Environmental Clearance was already placed before 102nd, 103rd, 117th, 131st, 153<sup>rd</sup>, 164<sup>th</sup>, 209<sup>th</sup>, 229<sup>th</sup> and 276<sup>th</sup> SEAC meetings held on 01.02.2018, 23.02.2018, 28.07.2018, 17.07.2019, 04.06.2020, 20.07.2020.

  
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09.04.2021, 27.08.2021 and 21.5.2022 respectively. Subsequent to the SEAC meetings, the minutes of the SEAC meeting was placed before the 325th, 343rd, 382nd Authority meeting held on 19.07.2018, 03.05.2019 & 23.06.2020 respectively. The details of the minutes are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, M/S-Dow Chemical International PVT LTD, has applied for Environmental Clearance for the proposed Synthetic organic chemical industry at S.F.Nos. Plot No. L-7, Sipcot Industrial Park (Phase II), Mambakkam Post, Sriperumbudur Village, Kanchipuram District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 5(f) "Synthetic Organic chemical Industry Projects" of the Schedule to the EIA Notification, 2006.
3. Terms of Reference (ToR) was issued for this proposal for expansion vide F.No.6439/2017/ (5f)/SOC/TOR-291/2017 dated 09-10-2017

The proposal was placed for appraisal in 307<sup>th</sup> meeting of SEAC held on 26.08.2021.


Based on the presentation and documents furnished by the project proponent, SEAC noted the EIA report was submitted on 08.12.2017, hence SEAC decided that the project proponent shall submit revised EIA report, with the latest data collected.

On receipt of the revised EIA report this subject has been again placed 276<sup>th</sup> SEAC meeting held on 21.5.2022. Based on the presentation made and documents furnished by the project proponent, SEAC decided to make on site inspection by the Sub Committee constituted by SEAC. On the receipt of the same further deliberation will be done.

The Sub-Committee of SEAC visited the project site on 25.06.2022(Saturday) to collect the factual information and took photographs of the salient features of the site to get the first-hand information of the site. The Sub-Committee inspection report was placed in this 307<sup>th</sup> Meeting of SEAC held on 26.08.2021 and the observations of the Sub-committee are as follows,

**Observations made by the Sub-Committee:**

The Sub-Committee held discussions with the project proponent regarding the proposal seeking Environmental Clearance for Expansion in Production of Water

  
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based Latex Polymer from 40000 MTA to 70000 MTA & Latex Polymer cake from 407 MTA to 1462 MTA in two phases in existing Emulsion Plant located at Plot No. L-7, SIPCOT Industrial Park (Phase II), Mambakkam Post, Sriperumbudur Village, Kanchipuram District, Tamil Nadu.

- The unit was under operation.

**1. Effluent Treatment Plant:**

The ETP treats at present 79 KLD from process vessel and equipment flushing and 8 KLD from domestic use. Thus, the total flow into the ETP now is 87 KLD. This flow will increase to 147.5 KLD in future (138 + 9.5 KLD). Since the process effluent flow has almost doubled, the ETP capacity also needs to be doubled. Hence, the industry is directed to go for an additional ETP of similar configuration as it is existing now.

**2. Hazardous Waste:**

Regarding hazardous waste, the industry produces pump seal oil, expired raw materials, empty raw material drums, bag liners which are contaminated with chemical powders and ETP sludge. hazardous waste should also be managed as per the existing Hazardous Waste and Other Waste (Management) Rules, 2016.

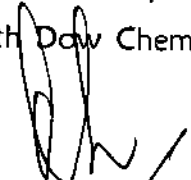
**3. Air pollution control Measures:**

Air pollution control measures provided by the unit were in operation. The industry should install an additional VOC monitor at the ground floor in the process area and the data generated should be fed to the TNPCB CARE AIR CENTRE.

The project proponent submitted EIA report on 07.12.2017 through online vide SIA/TN/IND2/21287/2017 seeking Environmental Clearance for Expansion in Production of Water based Latex Polymer from 40000 MTA to 70000 MTA & Latex Polymer cake from 407 MTA to 1462 MTA in two phases in existing Emulsion Plant located at Plot No. L-7, SIPCOT Industrial Park (Phase II), Mambakkam Post, Sriperumbudur Village, Kanchipuram District, Tamil Nadu. Used has basic raw materials required in the manufacture of paints.

Earlier, the company was established by Rohm and Haas India Pvt. Ltd and obtained Consent to Establish from TNPCB on 5th August 2006 & subsequently obtained consent to operate on 07.09.2007 and later merged with Dow Chemical International Private Limited in the year 2016.

  
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As per the Environment Impact Assessment Notification S.O.60(E), dated 27/01/1994 under SCHEDULE-I for List of Projects Requiring Environmental Clearance From The Central Government in

**15. Integrated paint complex including the manufacture of resins and basic raw materials required in the manufacture of paints.**

Rohm and Haas India Pvt. Ltd must have applied and obtained Environment Clearance at the time of commissioning of the unit from MoEF&CC.

MoEF&CC has informed vide F.No.22-7/2019-IA.III dated 03.02.2021 based on the project proponent request for the natural polymer. But, sub –the committee felt based on the report from the IIT Madras confirmed synthetic organics and it clearly shows that the unit activity attracts both the EIA Notification 2006 and EIA notification 1994. (Stated in para vii. Above).

The project proponent applied prior to the provisions of Notification S.O 804 (E) dated 14.03.2017, the project proponent may avail O.M issued by MoEF&CC vide F. No. 22-10/2019-IA.111 dated 09.09.2019 through lateral entry.

**Recommendations:**

The Sub-Committee submits the inspection report to SEAC for the further course of action regarding the proposal seeking Environmental Clearance for Expansion in Production of Water based Latex Polymer from 40000 MTA to 70000 MTA & Latex Polymer cake from 407 MTA to 1462 MTA in two phases in existing Emulsion Plant located at Plot No. L-7, SIPCOT Industrial Park (Phase II), Mambakkam Post, Sriperumbudur Village, Kanchipuram District, Tamil Nadu.

The Committee carefully examined the proposal and the observations made by the Sub-Committee. The Committee noted the following:

- M/s. Dow Chemical International Private Limited, Sriperumbudur, Chennai is engaged in the production of Water based Latex Polymer (Emulsion).
- The unit was established prior to EIA Notification 2006, after obtaining Consent to Establish in August 2006, in the name of M/s Rohm & Hars India Private Limited and later merged with Dow Chemical International Private Limited in the year 2015.
- The proponent has proposed to increase the production capacity of Water

  
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Based Latex Polymer & Latex Polymer Cake from 40000MTPA to 70000MTPA and from 407 MTPA to 1462 MTPA respectively.

- The PP applied for ToR on 21.08.2017 under 5(f) of EIA notification 2006.
- The Terms of Reference was issued by SEIAA, TN vide Letter No. SEIAA-TN / F.No.6439 / 2017/(5f) / SOC /TOR - 291 /2017 dated 09.10.2017.
- PP applied for EC on 08.12.2017 along with EIA report.
- The proposal came up for examination in the 102<sup>nd</sup> meeting of SEAC held on 01.02.2018 and SEAC decided to inspect the plant by a Technical Team constituted by the Committee and the Technical Team submitted its report on 19.02.2018.
- The proposal was considered by SEAC in its 103<sup>rd</sup> meeting held on 23.02.2018 along with the observations made by the Team. PP was asked to revise the EIA report to incorporate various pollution control measures suggested by the Team. PP submitted the revised the EIA report and SEAC decided to recommend grant of EC to SEIAA on the same day.
- The following conditions was one among the additional conditions prescribed by SEAC:

*"From regulatory point of view, the SEAC members noted that as per EIA Notification, S.O. 60 (E), dated: 27.01.1994, the project requires Environmental Clearance. As per the Schedule - I, "integrated paint complex including manufacture of resins and basic raw materials required in the manufacture of paints will require EC". When this was pointed out to the proponent, the proponent was of the opinion that his project does not require EC according to his interpretation of the rule. This recommendation made by the SEAC is subject to the resolution of the point whether the EIA notification, 1994 was applicable in the case of this project in the year 2006 when the proponent planned to start the industry."*

- This led to proposal going back and forth between SEIAA and SEAC, as SEIAA needed a clear opinion from SEAC on the point whether the proposal should be considered under 5(f) of 2006 Notification or under 15 of EIA Notification 1994, the implication being that the proposal has be treated as violation case if

it came under 15 of EIA Notification 1994.

- SEIAA wrote to MoEF&CC for a clarification and the Ministry placed the subject before the Expert Committee for streamlining environmental clearance procedures. Based on the recommendations, the Ministry in its letter F.No.22-7/2019-IA.III dated 03.02.2021 issued the following clarification:

*"Based on the recommendations of the Committee it is clarified that the existing water based latex polymer manufacturing project does not require prior environmental clearance as per EIA Notification, 1994. However, considering the project under category 5(f) 'Synthetic Organic Chemical Industry' of the schedule of the EIA Notification, 2006, the project proponent may obtain prior EC for expansion/modernisation of the project from the concerned regulatory authority."*

- The MoEF&CC Committee in its minutes dated January 14-15, 2021 has observed that *"the Proponent is not involved in Paint manufacture and is making water based polymer emulsions only and therefore do not fall under 'Integrated Paint Manufacturing.'"*
- As per MOEF&CC OM Dt 21.3.2022 it is clarified that any paint industry which is involved in manufacturing of ingredients such as resins, lacquers, varnishes, etc., **besides** formulation (physical mixing of ingredients) of paints shall require prior EC as per schedule 5(h) of the EIA Notification, 2006 as amended from time to time. It is also clarified that the ingredients are not restricted to resins, lacquers and varnishes but it may also include any ingredient such as polymers/co-polymers etc. including water based polymer, which are used in the manufacturing of paints.
- Considering all the above, SEAC decided to recommend grant of EC to SEIAA under 5(f) of EIA Notification 2006 subject to the following conditions.
  1. Water based Latex Polymer from 40000 MT/ Year to 70000 MT/Year & Latex Polymer cake from 407 MT/Year to 1462 MT/Year
  2. Due to the expansion of the industry, there will be increased air emission. At present the air emission (mainly monomers) is estimated to be 2860 kg/annum. After expansion this will increase to 4960 kg/annum. To

  
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manage the increased air emission, the proponent should implement the following additional air pollution control measures.

- a) The scrubber column internal packing must be revamped by going for a combination of structured packing and random packing to improve the caustic scrubber efficiency to 80% from 60%.
  - b) Caustic circulation pump capacity must be increased from 17cu.m/hr to 25 cu.m/hr after checking the flooding conditions.
  - c) The forced draft caustic blower capacity must be increased from 170 cu.m/hr to 250 cu.m/hr by change of impeller / motor.
3. The ETP treats at present 79 KLD from process vessel and equipment flushing and 8 KLD from domestic use. Thus, the total flow into the ETP now is 87 KLD. This flow will increase to 147.5 KLD in future (138 + 9.5 KLD). Since the process effluent flow has almost doubled, the ETP capacity also needs to be doubled. Hence, the industry is directed to go for an additional ETP of similar configuration as it is existing now.
  4. Regarding hazardous waste, the industry produces pump seal oil, expired raw materials, empty raw material drums, bag liners which are contaminated with chemical powders and ETP sludge. The total hazardous waste now generated is 296 T/annum which will increase to 525.25 T/annum after expansion. The future hazardous waste should also be managed as per the existing Hazardous Waste and Other Waste (Management) Rules, 2016.
  5. The industry should install an additional VOC monitor at the ground floor in the process area and the data generated should be fed to the TNPCB CARE AIR CENTRE.
  6. Only approved species should be planted following proper planting technique in future for green belt development:
    - i) Calophyllum inophyllum (Punnai)
    - ii) Derris indica (pungan)
    - iii) Ficus religiosa (Arassa Maram)
    - iv) Ficus bengalensis (Ala Maram)
    - v) Mimosa elengi (Magilan Maram)

- vi) *Syzygium cumini* ( Naaval)
- vii) *Azadirachta indica* (Vempu)
- viii) *Thespesia populnea* (Poovarasu)
7. Regarding the Occupational Health Services (OHS), the surgeon or medical officer appointed for the purpose shall be trained in OHS by the expertise in the respective fields. Besides, the documents related to periodical medical examination carried out shall be maintained in all aspects.
8. The plant safety committee shall be constituted if not done earlier, incorporating the members representing the management and workmen representing the different working areas to review the existence of the safety standards. Ensuring the safety standards on day to day basis must be carried out.
9. Safety audit shall be carried out for all the working places including the functional components as per norms and at least once in a year whichever is earlier. The same shall be considered as a basis for reviewing the safety standards during the plant safety committee meeting.
10. 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 Minutes.
11. 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.
12. As accepted by the Project proponent the CER cost is Rs. 63.40 lakhs and the amount shall be spent for the committed activities in Panchayath Union Middle School, Pondur as committed, before obtaining CTO from TNPCB.

  
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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 Metalliferous Mines Regulations, 1961.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
5. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
6. The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent

  
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erosion and surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.

7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
8. The Project Proponent shall carry out slope stability study by a reputed academic/research institution such as NIRM, IIT, Anna University for evaluating the safe slope angle if the proposed dump height is more than 30 meters. The slope stability report shall be submitted to concerned Regional office of MoEF&CC, Govt. of India, Chennai as well as SEIAA, Tamilnadu.
9. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
10. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
11. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
12. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper escapements as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.


  
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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.

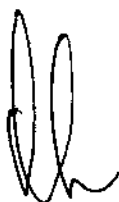
18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent 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.

  
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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	வில்வம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சாடி ஆனைக்குன்றுமணி
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>	Aathu	ஆத்து
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Eutea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Eobux ceiba</i>	Ilavu, Sevilavu	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 sweetenia</i>	Purasamaram	புரசு மரம்
16	<i>Coccolospermum religiosum</i>	Kongu, Marjallavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவுளி
18	<i>Croton adansonii</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உசா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சீறு உசா
21	<i>Diospyros ebenum</i>	Karungali	கருங்கால்
22	<i>Diospyros schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplissima</i>	Kallitchi	கல் திச்சி
24	<i>Hibiscus tiliaceus</i>	Aatrupoovarasu	ஆற்றுப்பூரக
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Heleptelia integrifolia</i>	Aavili	ஆவா மரம், ஆயில்
27	<i>Lamaca ceromandelica</i>	Odhiam	ஓதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்வ மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிளிப்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Mankani hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitrasyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுணா
38	<i>Phoenix sylvestre</i>	Eachai	ஏச்சமரம்
39	<i>Pongamia pinnat</i>	Pungan	பங்கம்

  
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40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narunmunai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malaiipoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Varu maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polaru	புலவு
47	<i>Putranjiva roxburghii</i>	Karpala	கற்பாலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கன் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தான் கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia bellieria</i>	Thandri	தாண்ட்ரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேண் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கோடுக்காப்புளி

  
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## Appendix -II

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

-----சுரங்கம்

காங்கங்களில் குவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/-----, தேதியிடப்பட்டு, சுற்றுச்சூழல் அனுமதி ----- தேதி வரை செல்லத்தக்கதாக உள்ளது.

பகைம் பகுதி வளர்ச்சி மேம்பாட்டுக்கான காங்கத் திட்டம்	குவாரியின் எல்லைவயச் சுற்றி வேலி அமைக்க வேண்டும்
கூடப்பட்டு பராமரிக்கப்படவேண்டிய மரங்கள் எண்ணிக்கை:	காங்கப்பாறையின் ஆழம் தளமாட்டத்திலிருந்து மீட்டர்க்கு மிகாமல் இருக்க வேண்டும்
	காற்றில் மாசு ஏற்படாதவாறு காங்கப் பணிகளை மேற்கொள்ள வேண்டும்.
	வாகனங்கள் செல்லும் பாதையில் மாசு ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் லாரிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும்.
	இரைச்சல் அளவையும் தூசு மாகபாட்டையும் குறைப்பதற்காக குவாரியின் எல்லையை சுற்றி அடர்த்தியான பகைம் பகுதியை ஏற்படுத்த வேண்டும்.
	காங்கத்தில் வெடி வைக்கும்பொழுது நில அதிர்வுகள் ஏற்படாதவாறும் மற்றும் சுற்கள் பறக்காதவாகும் பாதுகாப்பு நடவடிக்கைகளை உன்னிப்பாக செயல்படுத்தப்பட வேண்டும்
	காங்கத்தில் இருந்து ஏற்படும் இரைச்சல் அளவு 85 டிசிபெல்ஸ் (டீபி) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.
	காங்க சட்ட விதிகள் 1955ன் கீழ் காங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கொதுமுள்ள கழிப்பறை வசதிகளை செய்து தர வேண்டும்.
	கிராமம் அல்லது பஞ்சாயத்து வழியாக வாகனங்கள் செல்லும் சாலைகளை தொடர்ந்து தனது பராமரிக்க வேண்டும்.
	காங்கப்பணிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் நீர்நிலைகள் பாதிக்கப்படக் கூடாது.
	நீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் நிலத்தடி நீரின் தாத்தினை தொடர்ந்து கண்காணிக்க வேண்டும்.
	காங்கத்திலிருந்து கனிம பொருட்களை எடுத்துச் செல்வது கிராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுச்சூழல் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும்.
	காங்கப்பணிகள் முடிக்கப்பட்டவுடன் காங்க மூடல் திட்டத்தில் உள்ளவாறு காங்கத்தினை மூட வேண்டும்.
	காங்க நடவடிக்கைகளை முடித்தபின்னர் காங்கப் பகுதி மற்றும் காங்க நடவடிக்கைகளால் இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்து தாவரங்கள் விலங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகைம்பகுதியை உருவாக்க வேண்டும்.
	முழுமையான நிபந்தனைகளை அறிய பாரிவேஷ் ( <a href="http://parivesh.nic.in">http://parivesh.nic.in</a> ) என்கிற இணையதளத்தைப் பார்வையிடவும். மேலும் எந்தவித சுற்றுச்சூழல் சார்ந்த புகார்கள், சென்னையில் உள்ள சுற்றுச்சூழல் மற்றும் வன அமைச்சகத்தின் ஒருங்கிணைந்த வட்டான அலுவலகம்: 544 - 2322325 (அல்லது) தமிழகாடு மாசு கட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுச்சூழல் பொறியாளரை அணுகவும்.

  
MEMBER SECRETARY  
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