

STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of the Meeting of 293rd State Expert Appraisal Committee (SEAC) held on 8th July 2022 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for appraisal of Building and Construction Projects, Townships and Area Development Projects & Mining Projects through online and offline mode.

Agenda No: 293-01

(File No: 9080/2022)

Proposed Expansion of Educational Institution Buildings S.F. No. 232/3, 232/4A, 232/8A, 232/8B, 232/8C, 239/4, 239/6P, 239/6Q, 239/6R, 239/6S, 239/6T, 239/8A, 239/8B, 239/8C, 239/8D, 239/8E, 241/2, 241/3A, 241/3B, 242/1A, 242/1B, 242/2A, 242/2B, 242/2C, 242/2D, 242/3C, 242/4B, 242/5C, 242/5E, 242/5F, 242/6A, 243/3, 243/4, 243/5, 243/6A, 243/6B, 252/5A, 252/5B, 252/5C, 252/5D, 256, 257/1A, 257/1B, 257/1C, 257/1D, 257/1E, 237/7, 237/8, 242/5D, 242/5G, 233, 234/5, 237/1B, 237/2C, 237/3, 237/9B of Irungalur Village, S.F. No. 308/14, 310/10B, 310/10C, 310/11, 310/12A, 310/12C, 310/15, 310/2, 310/3B, 310/4, 310/7A, 310/7B, 310/8A2A, 310/8A2B, 313/10B, 313/6F, 313/9C, 310/17, 310/18B, 310/12B, 310/18A, 310/18C, 311/1, 313/1A, 313/1B, 313/2A, 313/3A, 313/3B, 313/4A, 313/4B, 313/4C, 313/6C, 313/6D, 313/6E, 313/6G, 313/7B, 313/8308/10, 308/12, 307/2B, 307/4, 307/6, 307/11, 307/12A, 307/18, 307/9, 307/21, 307/8, 307/12B, 307/3A, 307/3B, 307/7A, 307/7B, 307/10A, 307/10B, 307/10C, 307/10D, 307/20A, 313/9B, 307/20B, 307/16, 310/1, 313/9D, 315/1, 313/9E, 313/7A, 313/10A, 313/9A, 314/1B, 315/5B2, 315/5A Ayakudi Village and S.F. No. 39/3, 39/4, 39/5, 39/6, 39/7 of Samayapuram Village, Manachanallur Taluk, Tiruchirapalli District by M/s. SRM Institute of Science & Technology – For Terms of Reference (SIA/TN/MIS/72970/2022.09.03.2022

The proposal was placed in 293rd SEAC meeting held on 8.7.2022. 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. SRM Institute of Science & Technology has applied for Terms of Reference for the Proposed Expansion of Educational Institution Buildings S.F. No. 232/3, 232/4A, 232/8A, 232/8B, 232/8C, 239/4, 239/6P, 239/6Q, 239/6R, 239/6S, 239/6T, 239/8A, 239/8B, 239/8C, 239/8D, 239/8E, 241/2, 241/3A, 241/3B, 242/1A, 242/1B, 242/2A, 242/2B, 242/2C, 242/2D, 242/3C, 242/4B, 242/5C, 242/5E, 242/5F, 242/6A, 243/3, 243/4, 243/5, 243/6A, 243/6B, 252/5A, 252/5B, 252/5C, 252/5D, 256, 257/1A, 257/1B, 257/1C, 257/1D, 257/1E, 237/7, 237/8, 242/5D, 242/5G, 233, 234/5, 237/1B, 237/2C, 237/3, 237/9B of Irungalur Village, S.F. No. 308/14, 310/10B, 310/10C, 310/11, 310/12A, 310/12C, 310/15, 310/2, 310/3B, 310/4, 310/7A, 310/7B, 310/8A2A, 310/8A2B, 313/10B, 313/6F, 313/9C, 310/17, 310/18B, 310/12B, 310/18A, 310/18C, 311/1, 313/1A, 313/1B, 313/2A, 313/3A, 313/3B, 313/4A, 313/4B, 313/4C, 313/6C, 313/6D, 313/6E, 313/6G, 313/7B, 313/8308/10, 308/12, 307/2B, 307/4, 307/6, 307/11, 307/12A, 307/18, 307/9, 307/21, 307/8, 307/12B, 307/3A, 307/3B, 307/7A, 307/7B, 307/10A, 307/10B, 307/10C, 307/10D, 307/20A, 313/9B, 307/20B, 307/16, 310/1, 313/9D, 315/1, 313/9E, 313/7A, 313/10A, 313/9A, 314/1B, 315/5B2, 315/5A Ayakudi Village and S.F. No. 39/3, 39/4, 39/5, 39/6, 39/7 of Samayapuram Village, Manachanallur Taluk, Tiruchirapalli District by M/s. SRM Institute of Science & Technology – For Terms of Reference (SIA/TN/MIS/72970/2022.09.03.2022


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237/3, 237/9B Irungalur Village, S.F. No. 308/14, 310/10B, 310/10C, 310/11, 310/12A, 310/12C, 310/15, 310/2, 310/3B, 310/4, 310/7A, 310/7B, 310/8A2A, 310/8A2B, 313/10B, 313/6F, 313/9C, 310/17, 310/18B, 310/12B, 310/18A, 310/18C, 311/1, 313/1A, 313/1B, 313/2A, 313/3A, 313/3B, 313/4A, 313/4B, 313/4C, 313/6C, 313/6D, 313/6E, 313/6G, 313/7B, 313/8, 308/10, 308/12, 307/2B, 307/4, 307/6, 307/11, 307/12A, 307/18, 307/9, 307/21, 307/8, 307/12B, 307/3A, 307/3B, 307/7A, 307/7B, 307/10A, 307/10B, 307/10C, 307/10D, 307/20A, 313/9B, 307/20B, 307/16, 310/1, 313/9D, 315/1, 313/9E, 313/7A, 313/10A, 313/9A, 314/1B, 315/5B2, 315/5A Ayakudi Village and S.F. No. 39/3, 39/4, 39/5, 39/6, 39/7 of Samayapuram Village, Manachanallur Taluk, Tiruchirapalli District.

2. The project/activity is covered under Category "B" of item 8(b) "Building and Construction Projects" of the Schedule to the EIA Notification' 2006.
3. The Project consists Existing Built area of 87,236.79 Sq. m & 1,23,161.93 Sq. m. proposed. Total Built up area after expansion $87,236.79 + 1,23,161.93 = 2,10,398.72$ Sq.m. The total land area 2,52,040 Sq.m.
4. Earlier, the PP has obtained EC vide Lr No. SEIAA /TN /F.No. 484/2012 /6360 /2017/EC/8(a)/558/2018 Dt. 22.1.2018.

This proposal has placed in 293rd SEAC meeting held on 8.7.2022. During the meeting the PP/EIA consultant has referred the O.M No. F. No.19-131/2019-IA-III [128798] Dt. 19.5.2022 is as follows

Ministry of Environment, Forest and Climate Change vide Notification No. 5.0. 3252 (E) dated 22.12.2014, amended the schedule 8 of EIA Notification 2006 to state that Industrial shed, school, college, hostel for educational institution shall be exempted


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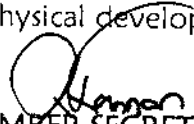
from requirement of Environmental Clearance (EC) but shall ensure sustainable environmental management etc.

Further, Ministry has issued an OM dated 9th June 2015 clarifying that Notification dated 22.12.2014 provides exemption to buildings of educational institutions including universities from obtaining prior EC under the provisions of EIA Notification 2006 subject to sustainable environmental management and provided a set of guidelines to be followed for building projects to ensure sustainable environment management.

In this regard, the Ministry is in receipt of request for clarification on the definition of 'educational institution' for which the above mentioned exemption is applicable. The matter was referred to the sectoral Expert Appraisal Committee (EAC) of the Ministry and based on their recommendation the matter was further referred to the Ministry of Education for seeking clarification regarding the definition of Educational Institution.

In this regard, Department of Higher Education, Ministry of Education has informed that different types of education institutions in terms of school, college, university, technical institutions, etc., have been defined in various statutes for the purpose of recognition, affiliation, accreditation etc. However, there is no specific definition of the term 'educational institutions'. Further, Department of Higher Education informed that as per Noise Pollution (Regulation and Control) Rules, 2000 under the Environment Protection Act, 1986, the term 'educational institutions' has been defined, as:

"educational institution" means a school, seminary, college, university, professional academies, training institutes or other educational establishment, not necessarily a chartered institution and includes not only buildings, but also all grounds necessary for the accomplishment of the full scope of educational instruction, including those things essential to mental, moral and physical development."


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The matter has been examined in the Ministry and it has been decided that the exemption provided for educational institutions vide Ministry's Notification No. S.O. 3252 (E) dated 22.12.2014 shall be applicable to all educational institutions covered under the definition of educational institution as mentioned in Noise Pollution (Regulation and Control) Rules, 2000. However, these educational institutions shall strictly implement the guidelines issued vide OM dated 9th June 2015 to ensure sustainable environment management.

Based on the above OM, the PP has claimed that the proposal involving expansion of Existing Educational Buildings falls under the purview of the said OM. Hence the PP informed the Committee that he proposes to withdraw the proposal as it's exempted from Environmental Clearance (EC) based on the said OM, irrespective of the total built-up area. The SEAC, therefore, decided to defer the proposal.

Agenda No: 293-2

File No: 9179/2022)

Proposed Rough stone quarry lease over an extent of 0.67.5 Ha in S.F.No: 839/1A2, Thulaiyanur Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu by Thiru.S.Kalaiselvan- For Environmental Clearance. (SIA/TN/MIN/267648/2022 Dt.13.04.2022)

The proposal was placed for appraisal in this 293rd meeting of SEAC held on 8.7.2022. 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.S.Kalaiselvan has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 0.67.5 Ha in S.F.No: 839/1A2, Thulaiyanur 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. As per the mining plan, the lease period is for 5 years. The mining plan is for the


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period of Five years. The total production for 5 years not to exceed 32600 m³ of Rough stone. The annual peak production as per mining plan is 11020 m³ of Rough stone (1st year) with ultimate depth of 25m.

Based on the presentation made by the proponent, the SEAC called for the following details from the PP.

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

Agenda No: 293-3

File No: 9180/2022)


Proposed Rough stone & Gravel quarry lease over an extent of 2.45.0 Ha in S.F.No: 96/4, 98/1, 98/2, & 98/3, Kannagudi Village, Kulathur Taluk Pudukkottai District, Tamil Nadu by Thiru. TMR. Rajha Sivakumar - For Environmental Clearance. (SIA/TN/MIN/265622/2022 Dt.06.04.2022)

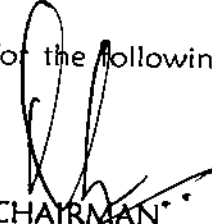
The proposal was placed for appraisal in this 293rd meeting of SEAC held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. TMR. Rajha Sivakumar has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 2.45.0 Ha in S.F.No: 96/4, 98/1, 98/2, & 98/3, Kannagudi Village, Kulathur 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. 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 222198m³ of Rough stone & 47240 m³ of gravel. The annual peak production as per mining plan is 50310m³ of Rough stone (2nd year) & 32768 m³ of gravel (1st year) with ultimate depth of 39m.

Based on the presentation made by the proponent, the SEAC called for the following details from the PP.


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

Agenda No: 293-4

File No: 9183/2022)

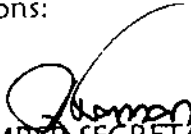
Proposed Rough stone & Gravel quarry lease over an extent of 2.86.0 Ha in S.F.No 328/3(P), Muthunaickenpatty village, Palani Taluk, Dindigul District, Tamil Nadu by Thiru.U.Shiras Edavan Kuzhi - For Environmental Clearance. (SIA/TN/MIN/268058/2022 Dated:19.04.2022)

The proposal was placed for appraisal in this 293rd meeting of SEAC held on 8.7.2022. 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.U.Shiras Edavan Kuzhi has applied for Environmental Clearance for the Rough stone & Gravel quarry lease over an extent of 2.86.0 Ha in S.F.No.328/3(P), Muthunaickenpatty village, Palani Taluk, Dindigul 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 10 years. The mining plan is for the period of Five years. The total production for 5 years not to exceed 5,62,530 m³ of Rough stone, weathered rock- 22,494m³ & 34,650 m³ of gravel. The annual peak production as per mining plan is 120430 m³ of Rough stone (5th year), weathered rock- 20562 m³ (1st year) & 31500 m³ of gravel (1st year) with ultimate depth of 47.5m.


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:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. Within one year 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, IITs, Anna University Chennai-Dept of Mining Engg, NIT Surathkal, 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.
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 to the office of concerned AD (Mines) before obtaining CTO from TNPCB..
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. 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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7. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government primary School, Muthunaickenpatty Village, as committed, before obtaining CTO from TNPCB.

Agenda No: 293-5

File No: 9185/2022)

Proposed Rough stone quarry lease over an extent of 2.95.0 Ha in S.F.No 637(p) and 4(p), Thuppuganapalli & Agaram Agraharam Village, Shoolagiri Taluk, Krishnagiri, Tamil Nadu by M/S.Sri Vari Infrastructure- For Terms of reference. (SIA/TN/MIN/75944/2022,21.04.2022)

The proposal was placed for appraisal in this 293rd meeting of SEAC held on 8.7.2022. 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.Sri Vari Infrastructure has applied for Environmental Clearance for the Rough stone quarry lease over an extent of 2.95.0 Ha in S.F.No 637(p) and 4(p), Thuppuganapalli & Agaram Agraharam Village, Shoolagiri Taluk, Krishnagiri, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006. Government Poromboke Land
3. As per the mining plan, the lease period is for 10 years. The mining plan is for the period of Five years. The total production for 10 years not to exceed 934140 m³ of Rough stone. The annual peak production as per mining plan is 172660 m³ of Rough stone (4th year) with ultimate depth of 57m (25m AGL+32BGL).


Based on the presentation made by the proponent, SEAC recommended to grant of Terms of Reference (TOR) with Public Hearing subject to the following 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:


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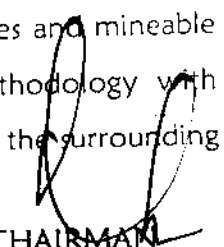
1. The PP shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site
2. The proposed site is located within 10km from Cauvery Wild Life Sanctuary, hence the PP shall remit Rs 10 lakh to DFO, Hosur to carry out the mitigation work.
3. Mining plan shall be included for bench formation in Hillock.
4. Action plan to prevent boulders falling during the operation.
5. The PP shall carry out Bio diversity study through reputed institution and the same shall be included in EIA Report.
6. Detailed survey of permanent structures located within 2 Km from the project site shall be included in the EIA report.
7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall 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.
8. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.


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11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD. mines,
- 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.
13. 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).
14. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
15. 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.
16. 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


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environment and the remedial measures for the same.

17. 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.
18. 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.
19. 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.
20. 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.
21. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
22. 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

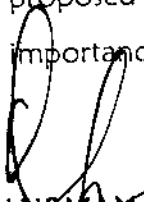

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should be given.

23. 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.
24. 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.
25. 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.
26. Impact on local transport infrastructure due to the Project should be indicated.
27. 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.
28. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
29. 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.
30. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
31. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
32. 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

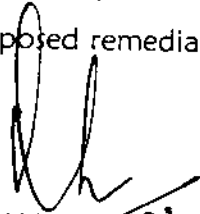

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preserving local flora and fauna by involving them in the study, wherever possible.

33. 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.
34. 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
35. 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.
36. 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.
37. 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.
38. 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.


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39. 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.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
41. 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.
42. 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.
43. 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.
44. 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.

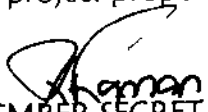
Agenda No: 293-6

File No: 9194/2022)

Proposed stand alone grinding unit (0.2MTPA @ 600TPD PPC/OPC) at SF.No. 399/18 Part, Therku Veerapandiyapuram Village, Ottapidaram Taluk, Thoothukudi District, Tamil Nadu by M/s. Arima Cements Private Limited - For Terms of reference (SIA/TN/IND/76000/2022 Dt. 21.4.2022)

The proposal was placed in this 293rd SEAC Meeting held on 8.7.2022. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

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



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1. The Proponent, M/s. Arima Cements Private Limited has applied for Terms of reference for the proposed stand alone grinding unit (0.2MTPA @ 600TPD PPC/OPC) at SF.No. 399/1B Part, Therku Veerapandiyapuram Village, Ottapidaram Taluk, Thoothukudi District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of item 3(b) "Cement plant" of the Schedule to the EIA Notification, 2006.
3. The proposal consists stand alone Cement Grinding Unit 0.2MTPA @ 600TPD PPC/OPC with plot area – 4.05 Ha.
4. The Raw material such as Clinker- 570 TPD, Gypsum- 30TPD & Fly Ash – 180 TPD . It is proposed to grind Clinker with other Raw Materials for producing PortlandPozzolana Cement (PPC) and Ordinary Portland Cement (OPC) @0.2 Million Tonnes per Annum (MTPA) @ 600 Tonnes per day (TPD).

Based on the presentation and documents/clarifications furnished by the project proponent, SEAC after detailed deliberations, decided to **recommend the proposal for the grant of Terms of Reference (ToR) with public consultation**, subject to the following ToRs in addition to the standard terms of reference for EIA study and details issued by the MoEF & CC to be included in EIA/EMP report:

1. Clear village map, FMB sketch & A Register shall be furnished.
2. Ground water for industrial purpose to be phased out in 5 years. The industry to explore possibilities to meet the Water consumption for industrial purpose through treated sewage obtained from nearest local body/rain water harvesting.
3. The project proponent has to submit the reclassification certificate from unclassified land to Industrial Land for the proposed project from the competent Authority.
4. Details of fugitive emission and control measures shall be furnished.
5. Air modeling study shall be conducted for the CPCB parameters considering the impact on the proposed plant to the nearby village.



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6. CER proposal shall be furnished as per the MOEF & CC OM dated: 01.05.2018.
7. A green belt plan at thick canopy shall be furnished all along the boundary at the proposed site along with name of the species, no. of species etc.,
8. The GPS co-ordinates for the boundaries at the green belt proposed & proposed project site shall be furnished separately.

STANDARD TERMS OF REFERENCE

- 1) Executive Summary
- 2) Introduction
 - i. Details of the EIA Consultant including NABET accreditation
 - ii. Information about the project proponent
 - iii. Importance and benefits of the project
- 3) Project Description
 - i. Cost of project and time of completion.
 - ii. Products with capacities for the proposed project.
 - iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
 - iv. List of raw materials required and their source along with mode of transportation.
 - v. Other chemicals and materials required with quantities and storage capacities
 - vi. Details of Emission, effluents, hazardous waste generation and their management.
 - vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
 - viii. Process description along with major equipments and machineries, process flow sheet (quantities) from raw material to products to be provided
 - ix. Hazard identification and details of proposed safety systems.
 - x. Expansion/modernization proposals:
 - a. Copy of all the Environmental Clearance(s) including Amendments thereto


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obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing / existing operation of the project from SPCB shall be attached with the EIA-EMP report.

b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification, 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4) Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
- ii. A top sheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.


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- viii. Landuse break-up of total land of the project site (identified and acquired), government/ private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy

5) Forest and wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
- ii. Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in


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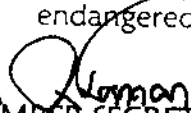

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the study area

- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6) Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQPM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a


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Wildlife Conservation Plan shall be prepared and furnished.

xi. Socio-economic status of the study area.

7) Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

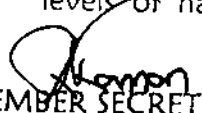

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- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8) Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays. Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level


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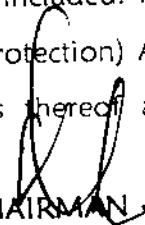

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- (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved.
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9) Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report
- 10) Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.
- 11) Enterprise Social Commitment (ESC)
- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.
- 12) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and


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compliance/ATR to the notice(s) and present status of the case.

13) A tabular chart with index for point wise compliance of above TOR.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR CEMENT PLANTS

1. Limestone and coal linkage documents along with the status of environmental clearance of limestone and coal mines
2. Quantum of production of coal and limestone from coal & limestone mines and the projects they cater to;
3. For large Cement Units, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site.
4. Present land use shall be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quick bird, Icons, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
5. If the raw materials used have trace elements, an environment management plan shall also be included.
6. Plan for the implementation of the recommendations made for the cement plants in the CREP guidelines must be prepared.
7. Energy consumption per ton of clinker and cement grinding
8. Provision of waste heat recovery boiler
9. Arrangement for use of hazardous waste.

Agenda No: 293-7

File No: 9198/2022)

Proposed Rough stone & Gravel quarry lease over an extent of 4.26.5 Ha in S.F.No 14/2B(P), 17/2, 3 & 4, Melakalangal Village, Veerakeralampudur Taluk, Thenkasi District, Tamil Nadu by Thiru. M. Senthur Pandian - For Environmental Clearance. (SIA/TN/MIN/269398/2022 Dt.25.04.2022)

The proposal was placed for appraisal in this 293rd meeting of SEAC held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The project proponent, Thiru. M. Senthur Pandian has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 4.26.5 Ha in S.F.No 14/2B(P), 17/2, 3 & 4, Melakalungal Village, Veerakeralampudur Taluk, Thenkasi 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 899529m³ of Rough stone & 189348 m³ Gravel. The annual peak production as per mining plan is 184140m³ of Rough stone (5th year) & 68400 m³ Gravel (1st year) with ultimate depth of 60m.

Based on the presentation made by the proponent, the SEAC called for the following details from the PP.

1. The PP shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
2. The ROA of well water located in the vicinity of the project site
3. The PP shall furnish a letter obtained from AD/DD Mine & Geology with respect to exact depth of existing Pit, period of the operation and stoppage of the earlier mines & quantity of minerals mined out.

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

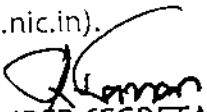
Agenda No: 293-8


File No: 9199/2022)

Proposed Rough stone & Gravel quarry lease over an extent of 0.78.0 Ha in S.F.No127/2, 127/3 Themmavur Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Tmt.A.Mahalakshmi - For Environmental Clearance. (SIA/TN/MIN/268185/2022

Dt. 18.04.2022)

The proposal was placed for appraisal in this 293rd meeting of SEAC held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


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The SEAC noted the following:

1. The project proponent, Thiru.A.Mahalakshmi has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 0.78.0 Ha in S.F.No127/2, 127/3 Themmavur Village, Kulathur 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. 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 38972 m³ of Rough stone. The annual peak production as per mining plan is 8330m³ of Rough stone (2nd year) with ultimate depth of 38m.

Based on the presentation made by the proponent, the SEAC called for the following details from the PP.

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

Agenda No: 293-9

File No: 9201/2022)

Proposed Rough stone & Gravel quarry lease over an extent of 0.93.5 Ha in S.F.Nos. 231/3, Kuthiluppai Village, Oddanchatram Taluk, Dindigul District, Tamil Nadu by Thiru.M.Subramani - For Environmental Clearance. (SIA/TN/MIN/269296/2022 Dt. 23.04.2022)

The proposal was placed for appraisal in this 293rd meeting of SEAC held on 8.7.2022. 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.Subramani has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 0.93.5 Ha in S.F.Nos. 231/3, Kuthiluppai Village, Oddanchatram Taluk, Dindigul District, Tamil Nadu.


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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 10 years. The mining plan is for the period of 10 years. The total production for 10 years not to exceed 119830 m³ of Rough stone, 19210 m³ of weathered Rock & 7684 m³ of Gravel. The annual peak production as per mining plan is 18640 m³ of Rough stone (1st year), 6460m³ of weathered Rock (1st & 2nd year) & 2584 m³ of Gravel (1st & 2nd year) with ultimate depth of 36m.

Based on the presentation made by the proponent, SEAC recommended to grant of Environmental Clearance for an annual peak production capacity of 18640 m³ of Rough stone, 6460m³ of weathered Rock & 2584 m³ of Gravel by maintaining the ultimate depth of 36m 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.
3. The PP shall carry out the avenue plantation along the haul roads where the transportation of mineral is planned before obtaining the CTO from TNPCB.
4. The PP shall submit the revised Mining Plan indicating the proper bench geometry (5m x 5m or 6m x 6m) after vetted by the concerned AD (Mines) to the SEIAA, before obtaining the CTO from TNPCB.
5. The PP shall furnish slope stability action plan for the planned working of the proposed quarry, before obtaining CTO from TNPCB.
6. The PP shall ensure that only controlled blasting operation involving muffle blasting is carried out in the quarry with prior official permission of the Director of Mines Safety, Chennai Region after obtaining the CTO from TNPCB.


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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 EMP furnished.
8. As accepted by the Project proponent the CER cost is Rs. 4 lakhs and the amount shall be spent for the Govt. Hr. Sec School Itaiyakottai, as committed, before obtaining CTO from TNPCB.

Agenda No: 293-10

File No: 9360/2022)

Proposed Grain Based Distillery unit (Fuel grade Bio Ethanol) 200KLD SF.No. 33/2A, Plot No. A-4/1F,A-4/1G & A-4/1H SIPCOT Industrial park, Thervoy Kandigai Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu by M/s. SLB Ethanol Private Limited- For Environmental Clearance (SIA/TN/IND2/269390/2022 Dt. 06.06.2022)

The proposal was placed in this 293rd SEAC Meeting held on 8.7.2022. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

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

1. The Proponent, M/s. SLB Ethanol Private Limited has applied for Environmental Clearance for the proposed Grain Based Distillery unit (Fuel grade Bio Ethanol) 200KLD SF.No. 33/2A, Plot No. A-4/1F,A-4/1G & A-4/1H SIPCOT Industrial park, Thervoy Kandigai Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu.
2. As per the MoEF&CC Notification S.O. 2339(E), dated 16th June, 2021, a special provision in the EIA Notification, 2006-(Schedule 5 (ga), Category B2) is made, wherein for all applications made for Grain based distilleries with Zero Liquid Discharge producing ethanol; solely to be used for Ethanol Blended Petrol Programme of the Government of India shall be considered under B2 Category.
3. The proposal consists production of following

Sl.No	Particulars	Description
1	Fuel grade Bio Ethanol	200KLD
2	DDGS(dried Distilleries Grain)	112 MTPD


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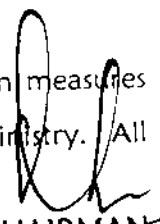
3	Carbon Di Oxide	156 MTPD
4	Technical Alcohol Industrial Grade	2000 LPD
5	Fusel oil Industrial grade	200 LPD
6	Co-generation power plant	5.3 MW

4. The Raw material such as Broken & Full Rice- 456 T/day (or) Maize- 520 T/day. The fuel to be used as Imported Coal- 179 T/day & Rice Husk 257 T/day.
5. As per the Notification S.O. 2339(E), dated 16th June, 2021, PP has submitted self-certification in the form of notarized affidavit declaring that the proposed capacity of 200 KLD will be used for manufacturing of fuel ethanol only.

Based on the presentation and documents/clarifications furnished by the project proponent, SEAC after detailed deliberations, decided to recommend Environmental clearance to the project for Proposed Grain Based Distillery unit (Fuel grade Bio Ethanol) 200KLD solely to be used for Ethanol Blended Petrol Programme of the "Government of India" along with 5.3 MW Cogeneration Power Plant located SF.No. 33/2A, Plot No. A-4/1F, A-4/1G & A-4/1H SIPCOT Industrial park, Thervoy Kandigai Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu by M/s. SLB Ethanol Private Limited subject to normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. As per the Notification S.O. 2339(E), dated 16th June, 2021, project falls in category B2 and the proposed capacity of 200 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of a notarized affidavit by the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for EBP Programme, or if ethanol is not being produced, or if the said distillery is not fulfilling the requirements based on which the project has been appraised as category B2 project, the EC shall stand cancelled.
2. The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the


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recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.


3. The PP shall provide the STP of capacity – 25 KLD & ETP (with ZLD) of Capacity – 750 KLD.
4. The project proponent shall recycle and reuse the treated water within the unit and no wastewater or treated water shall be discharged outside the premises.
5. EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project.
6. Total Fresh water requirement shall be met out through SIPCOT water supply only. No ground water shall be extracted.
7. The spent wash shall be concentrated and dried to form DDGS to be used as cattle feed. ESP shall be installed with the boiler. Boiler ash will be utilized for making bricks in the proposed brick making unit. PP shall use biomass like rice husk/bagasse as fuel for the proposed boiler. Low sulphur coal with maximum sulphur content of 0.5% shall only be used only in case of biomass unavailability.
8. PP shall meet 10% of the total power requirement from solar power.
9. CO₂ generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.
10. PP shall ensure that all workers & employees shall be provided with required safety kits/mask for personal protection.
11. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
12. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms. PESO certificate shall be obtained. (xi). Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for its

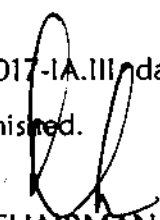

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incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.

13. The unit shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
14. The green belt of at least 3 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per appendix-1.
15. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places.
16. Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions. Internal roads shall be made pucca.
17. Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
18. A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
19. 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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20. As accepted by the Project proponent the CER cost is Rs. 6 Crore and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

Agenda No: 293-11

(File No. 7654/2020)

Proposed Sand quarry lease over an extent of 4.90.0 ha in S.F.No.380/1(P) of Kumarapalayam Village, Mohanur Taluk, Namakkal District, Tamil Nadu by M/s. The Executive Engineer, PWD/WRD, Mining and Monitoring Division - For Environmental Clearance. (SIA/TN/MIN/154774/2020, dated: 28.05.2020)

The proposal was placed for appraisal in this 293rd SEAC Meeting held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. The Executive Engineer, PWD/WRD, Mining and Monitoring Division, has applied for Environmental Clearance for the Sand quarry lease over an extent of 4.90.0 ha in S.F.No.380/1(P) of Kumarapalayam Village, Mohanur Taluk, Namakkal 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 172nd SEAC Meeting held on 05.09.2020 & 182nd SEAC Meeting held on 17.10.2020. Based on the presentation made by the proponent and the documents furnished, the SEAC decided to make an on - the - spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC.
4. In the 152nd SEAC meeting held on 23.05.2020, it was discussed in detail about the clearance of pending proposals by the SEAC at this pandemic situation (COVID -19). After analysing difference options, the SEAC taken a unanimous decision that the Concern District Environmental Engineer (DEE) of Tamil Nadu Pollution Control Board (TNPCB) shall be requested to carry out the site inspection and furnish the inspection report about queries raised and the present


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status of the project, since the TNPCB is the monitoring agency for the category "B" Projects. This arrangement is only for this critical pandemic situation (COVID-19) period and this practice is not applicable for the violation cases, as per rules.

5. In this connection, a letter has been addressed to the TNPCB vide Lr.No.SEIAA-TN/F.No.SEAC/2020/dated 15.09.2020 with a request that the necessary orders may be issued to the concern DEE of TNPCB to carry out the inspection procedure instead of Sub- Committee of the SEAC.
6. Based on the above, DEE Namakkal has inspected the site on 01.10.2020 and submitted the report vide Lr.No. T2/TNPCB/F.19414/NML/Inspection report/2020 dated 15.10.2020 and was placed in 182nd SEAC held on 17.10.2020. After detailed deliberations, the SEAC decided to request the TNPCB to send the details of the frequent complaints which are received from the local public against quarry by the TNPCB as mentioned in the inspection report. Member Secretary Chairman SEAC-TN SEAC-TN.

Now, the DEE Namakkal vide Lr Dt 27.5.2022 has furnished the details. This proposal has again been placed in 293rd SEAC meeting held on 8.7.2022. Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub-Committee constituted by SEAC to assess the present Environmental Condition.

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

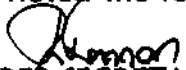
Agenda No: 293-12

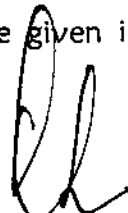
(File No: 8151/2021)

Proposed Sand quarry over an extent of 3.60.0 Ha in Coleroon river located at S.F.No: 1(p) Veeramangudi (Devangudi) Village, Papanasam Taluk, Thanjavur District Tamil Nadu by the Executive Engineer, PWD/WRD- For amendment in Environmental Clearance. (SIA/TN/MIN/261211/2022 Dt.11.3.2022)

The proposal was placed for appraisal in this 293rd SEAC Meeting held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The Proponent, Executive Engineer, PWD/WRD, has applied for amendment in Environmental Clearance issued for the Sand quarry over an extent of 3.60.0 Ha in Coleroon river located at S.F.No: 1(p) Veeramangudi (Devangudi) Village, Papanasam Taluk, Thanjavur District Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. Earlier, the PP has obtained Environmental Clearance for the said proposal vide Lr.No.SEIAA-TN/F.No.8151/EC/1(a)/4884/2020, Dt. 3.11.2021 for the production quantity of 36000 m³ of Sand and 47697 m³ of Shoals in Coleroon River for the period of Three Years from the date of execution of the mining lease, with the following condition among them
 - i. The mine working will be Manual
 - ii. The project proponent is allowed to engage bullock carts to transport the sand.
4. Now, the PP vide Lr No. 33M/DB/JDO.2/F.53(SEIAA)/2022 Date 14.2.2022, has requested that, *"As per the conditions contemplated in the Environmental Clearance, the Mechanism of mining operation is restricted to Manual and Transportation is restricted to Bullock carts. Due to Covid -19 Pandemic situation, the lease agreement for this Veeramangudi (Devangudi) Village Sand quarry has not been executed. Now, the Tamil Nadu Govt has decided to resume the sand quarry operation to fulfil the State sand demand. But, expected demand for sand is much higher than the probable supply which could not be met out from the existing sand quarries of the state. Hence the rate of supply needs to be increased, to satisfy the huge demand from the public and Govt projects as well. This can be done through Machinery Loading and General Transport. Hence, it is requested that mining mechanism for Veeramangudi (Devangudi) Village Sand quarry operation may please be amended as Machinery and Transportation mechanism as General (All Available mode of transport) at the earliest".*


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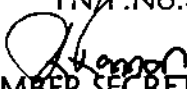

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5. Earlier, this proposal was placed before 262nd SEAC Meeting held on 8.4.2022. Based on the representation and documents furnished by the project proponent, SEAC noted that the PP has originally furnished the mining plan approved by the Directorate of Geology and Mining for the manual mining & transportation through bullock cart only and the Environmental Clearance was granted accordingly but it has not been executed by the PP. Hence SEAC decided that, the project proponent shall furnish the revised mining plan approved by the Directorate of Geology and Mining for their proposed mechanized mining operations with general transportation for further deliberations.

Now the PP has furnished the revised mining plan, accordingly this proposal again been placed in 293rd SEAC meeting held on 8.7.2022. The project proponent has made the representation based on the revised mining plan.

Based on the presentation & documents furnished by the PP, SEAC decided to recommend the proposal for grant of Environmental Clearance with semi mechanized mining operation & transportation through bullock cart, tractors & tippers, subject to the following specific conditions in addition to the other conditions stipulated in 234th SEAC (vide Item no. 234-31) meeting held on 22.9.2021.

1. The permitted quantity as per revised mining plan is 41697m³ of Shoals & 36000m³ of sand upto the depth of 1 m & period of is 1 year.
2. The mining operation shall be carried out as per the modified mining plan submitted to the SEAC/SEIAA.
3. The PP shall allocate 10% of total quantity of sand to be mined out and make it available exclusively for the requirements of local habitants located around the proposed quarry.
4. 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.
5. The remaining conditions as mentioned in the EC vide Tr.No.SEIAA-TN/P.No.8151/EC/1(a)/4884/2020, Dt. 3.11.2021 is unaltered.


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Agenda No: 293-13

(File No: 9231/2022)

Proposed Sand quarry over an extent of 4.90.0 Ha in Vellar river located at S.F.No: S.F.Nos. 93 (P), Kiliyanur village, Chidambaram Taluk, Cuddalore District, Tamil Nadu by the Executive Engineer, PWD/WRD— For Environmental Clearance. (SIA/TN/MIN/270435/2022 Dt. 4.5.2022)

The proposal was placed for appraisal in this 293rd SEAC Meeting held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance proposed Sand quarry over an extent of 4.90.0 Ha in Vellar river located at S.F.No: S.F.Nos. 93 (P), Kiliyanur village, Chidambaram Taluk, Cuddalore District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is one year and the mining plan for the period of one year & mining quantity should not exceed 69638 cu.m. of sand. The ultimate depth 1 metres below bed level.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Subcommittee constituted by SEAC to assess the present Environmental Condition.


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

Agenda No: 293-14

(File No: 9265/2022)

Proposed Sand quarry over an extent of 4.95.5 Ha in Vaipparu river located at S.F.No: S1095 (P), Nenmeni village, Sattur Taluk, Viruthunagar District, Tamil Nadu by the Executive Engineer, PWD/WRD— For Environmental Clearance. (SIA/TN/MIN/271159/2022 Dt.13.5.2022)

The proposal was placed for appraisal in this 293rd SEAC Meeting held on 8.7.2022. The details of the project furnished by the proponent are given in the


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website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance proposed Sand quarry over an extent of 4.95.5 Ha in Vaipparu river located at S.F.No: S1095 (P), Nenmeni village, Sattur Taluk, Viruthunagar District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 6 months and the mining plan for the period of 6 months & mining quantity should not exceed 49550 cu.m. of sand. The ultimate depth 1 metres below bed level.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub-Committee constituted by SEAC to assess the present Environmental Condition.

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

Agenda No: 293-15

(File No: 9297/2022)

Proposed Sand quarry over an extent of 4.98.0 Ha in Agniyaru & Nariyur river located at S.F.Nos. 1/4 (P), Echanviduthui Village, Karambakudi Taluk, Pudukkottai District Tamil Nadu by the Executive Engineer, PWD/WRD— For Environmental Clearance. (SIA/TN/MIN/273596/2022 Dt.27.5.2022)

The proposal was placed for appraisal in this 293rd SEAC Meeting held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance proposed Sand quarry over an extent of 4.98.0 Ha in Agniyaru & Nariyur river located at S.F.Nos. 1/4 (P), Echanviduthui Village, Karambakudi Taluk, Pudukkottai District Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of


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Minerals Projects" of the schedule to the EIA Notification, 2006.

3. As per mining plan, the lease period is One year and the mining plan for the period of One year & mining quantity should not exceed 100801 cu.m. of sand. The ultimate depth 1 metres below bed level.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub-Committee constituted by SEAC to assess the present Environmental Condition.

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

Agenda No: 293-16

(File No: 9298/2022


Proposed Sand quarry over an extent of 2.05.0 Ha in South Vellaru river located at S.F.Nos. 60 (P), Thandalai Village, Manamalkudi Taluk, Pudukkottai District, Tamil Nadu by the Executive Engineer, PWD/WRD- For Environmental Clearance. (SIA /TN /MIN / 273596 /2022 Dt.27.5.2022)

The proposal was placed for appraisal in this 293rd SEAC Meeting held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance proposed Sand quarry over an extent of 2.05.0 Ha in South Vellaru river located at S.F.Nos. 60 (P), Thandalai Village, Manamalkudi 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 mining plan, the lease period is One year and the mining plan for the period of One year & mining quantity should not exceed 21006 cu.m. of sand. The ultimate depth 1 metres below bed level.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub-Committee constituted by SEAC to assess the present Environmental Condition.


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

Agenda No: 293-17

(File No: 9299/2022)

Proposed Sand quarry over an extent of 3.86.0 Ha in Agniyaur river located at S.F.Nos. 93 (P), Karukeelatheru Village, Karambakudi Taluk, Pudukkottai District, Tamil Nadu by the Executive Engineer, PWD/WRD- For Environmental Clearance. (SIA/TN/MIN/273616/2022 Dt.28.5.2022)

The proposal was placed for appraisal in this 293rd SEAC Meeting held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance Sand quarry over an extent of 3.86.0 Ha in Agniyaur river located at S.F.Nos. 93 (P), Karukeelatheru Village, Karambakudi 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 mining plan, the lease period is One year and the mining plan for the period of One year & mining quantity should not exceed 63668 cu.m. of sand. The ultimate depth 1 metres below bed level.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub-Committee constituted by SEAC to assess the present Environmental Condition.

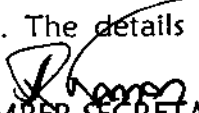
On receipt of the Sub-Committee report further deliberation will be done.

Agenda No: 293-18

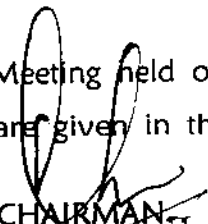
(File No: 9300/2022)

Proposed Sand quarry over an extent of 4.65.5 Ha in South Vellar river located at S.F.Nos. 79 (P), Piranthani village, Avudaiyarkoil Taluk, Pudukkottai District, Tamil Nadu, by the Executive Engineer, PWD/WRD- For Environmental Clearance. (SIA/TN/MIN/273232/2022 Dt. 28.5.2022)

The proposal was placed for appraisal in this 293rd SEAC Meeting held on 8.7.2022. The details of the project furnished by the proponent are given in the


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website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance for the proposed sand quarry over an extent of 4.65.5 Ha in South Vellar river located at S.F.Nos. 79 (P), Piranthani village, Avudaiyarkoil 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 mining plan, the lease period is one year and the mining plan for the period of One year & mining quantity should not exceed 81994 cu.m. of sand. The ultimate depth 1 metres below bed level.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub-Committee constituted by SEAC to assess the present Environmental Condition.

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

Agenda No: 293-19

(File No: 9363/2022)

Proposed Sand quarry over an extent of 4.95.0 Ha in Palar river located at S.F.Nos. 305 (P), Kandneri Village, Anicut Taluk, Vellore District, Tamil Nadu by the Executive Engineer, PWD/WRD- For Environmental Clearance. (SIA/TN/MIN/278204/2022 Dt. 16.6.2022)

The proposal was placed for appraisal in this 293rd SEAC Meeting held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance for the proposed Sand quarry over an extent of 4.95.0 Ha in Palar river located at S.F.Nos. 305 (P), Kandneri Village, Anicut Taluk, Vellore District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of


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Minerals Projects” of the schedule to the EIA Notification, 2006.

3. As per mining plan, the lease period is one year and the mining plan for the period of One year & mining quantity should not exceed 49500 cu.m. of sand. The ultimate depth 1 metres below bed level.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub Committee constituted by SEAC to assess the present Environmental Condition.

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

Agenda No: 293-20

(File No: 9340/2022

Proposed Sand quarry over an extent of 11.70.0 Ha in Palar river located at S.F.Nos. 1 (P) & 213 (P) in Kuthambakkam and Ananganallore Village, Gudiyatham Taluk, Vellore District, Tamil Nadu by the Executive Engineer, PWD/WRD– For Terms of Reference. (SIA/TN/MIN/78182/2022 Dt. 11.6.2022)

The proposal was placed for appraisal in this 293rd SEAC Meeting held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Executive Engineer, PWD/WRD, has applied for Terms of Reference for the proposed Sand quarry over an extent of 11.70.0 Ha in Palar river located at S.F.Nos. 1 (P) & 213 (P) in Kuthambakkam and Ananganallore Village, Gudiyatham Taluk, Vellore District, Tamil Nadu.
2. The project/activity is covered under category “B1” of Item 1(a) “Mining of Minerals Projects” of the schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is one year and the mining plan for the period of One year & mining quantity should not exceed 117618 cu.m. of sand. The ultimate depth 1 metres below bed level.

Based on the presentation made by the proponent SEAC recommended to grant of Terms of Reference (TOR) with Public Hearing subject to the following TORs, in


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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 PP shall carry out the study on drinking water scheme in 5 Km, either side of the bank of the River and the same shall be included in the EIA Report.
 1. The details of the location to cover land use and ecologically sensitive areas.
 - a. Details of the open wells, bore wells, and other surface water bodies including the details of ground water levels , Quantity in the 500m radius from the boundary of the Mine lease Area .
 - b. Impacts of this mining activity in the above said water bodies in the 500m radius from the boundary of the Mine lease Area .
 - c. Thickness of Sand and its variation covering the entire area; similarly the width of the sand bed, quantification of the shoal formation in that area
 - d. Agricultural land if any, surrounding the quarry site.
 - e. Details of the longitudinal and cross section of the river bed in the proposed mining area.
 - f. Detail of earlier of mining carried out in the 500m radius of the mine lease area including the location, quantity of sand mined out, depth of the mining , etc., shall be furnished.
 2. Reclamation of the sand area after mining needs to be submitted.
 3. Adequate plan for traffic management as per the per the Guidelines for Sustainable Sand Mining issued in 2016 by the MoEF & CC, GOI, New Delhi for the loaded vehicles passing through nearby habitation.
 4. The PWD has to furnish the details regarding agricultural activities that are taking place around the project area.
 5. Details of the structures available within 1km from the mine lease area boundary (both upstream and downstream and also Study the Impact of sand mining on the structures located in the said area .


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6. The route map for the Lorries for accessing the project area and for transporting mined sand should be specified.
7. Suitable working methodology to prevent dust pollution needs to be prepared taking wind direction into consideration.
8. The mining area must be demarcated leaving at least 50m from the river embankment on either side.
9. Wherever irrigation channels take off from the river within the boundary of the mining project, the mining operation should not affect the flow of water in the irrigation channels. In such a way a plan of action should be submitted.
10. EMP should contain break up details such as tools, labor and environmental monitoring cost, cost for the ground water monitoring in the surrounding area shall be part of the EMP cost, variation of depth of ground water and quality shall be monitored during the project period by conducting survey once in 3 months. This cost shall also be included in EMP.
11. Since there are many proposals for sand mining under the River Coleroon. It is necessary to model the overall impact on sand mining on regional ground water.
12. The proposal for CER shall be furnished with time frame as per the office memorandum of MoEF&CC dated 01.05.2018.
 - i. The Following details also included in the EIA Report. Quantity estimated to be mined through machineries & manual mining with extent.
 - ii. Certificate from the VAO stating the details of habitation located within 300 m radius from the boundary of the proposed site along with FMB sketch.
 - iii. The project proponent has to furnish the affidavit stating that there are no bridges, culverts, cross masonaries, water head works or any other civil structures within 500 mts., of the proposed quarry site.
 - iv. The RL Upstream, RL Downstream, RL Starting, RL Ending, Chainage Starting KM, Ending KM details shall be furnished.

- v. Geological sections Map should be furnished.
- vi. 500m, 1KM & 5KM radius of clear Google Map showing all the features like agricultural activities, habitations, etc

Agenda No: 293-21

(File No: 9362/2022)

Proposed Sand quarry over an extent of 4.95.0 Ha in Palar river located at S.F.Nos. 331 Valavanur Village, Arcot Taluk, Ranipet District, Tamil Nadu by the Executive Engineer, PWD/WRD- For Environmental Clearance. (SIA/TN/MIN/278204/2022 Dt. 16.6.2022)

The proposal was placed for appraisal in this 293rd SEAC Meeting held on 8.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


The SEAC noted the following:

1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance for the proposed Sand quarry over an extent of 4.95.0 Ha in Palar river located at S.F.Nos. 331 Valavanur Village, Arcot Taluk, Ranipet District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is one year and the mining plan for the period of One year & mining quantity should not exceed 49500 cu.m. of sand. The ultimate depth 1 metres below bed level.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub Committee constituted by SEAC to assess the present Environmental Condition.


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

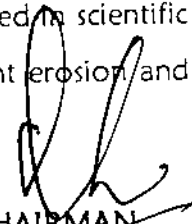

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ANNEXURE - I

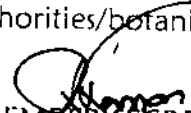
1. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
5. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
6. The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and

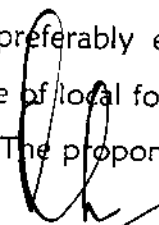

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surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.

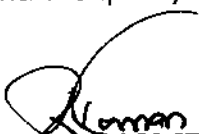
7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
8. The Project proponent shall 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, Tamil Nadu .
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 PP shall carryout the plantation as committed within one year after commencement of operation.
12. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
13. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted with proper spacing as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent

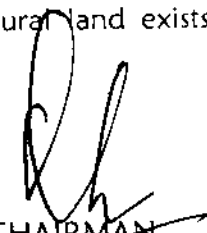

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shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner

14. **Noise and Vibration Related:** (i) The Proponent shall carry out only the Controlled Blasting operation using 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.
15. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
16. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.


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17. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamil Nadu 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.
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 informed to the District AD/DD(Geology and Mining) District Environmental


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Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.

25. 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.
26. 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.
27. 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.
28. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road if applicable, about the project as per Appendix - II of these minutes.



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Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Acacia mangium</i>	Vilvam	விவ்வை
2	<i>Adiantum species</i>	Manjadi	மஞ்சள்
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia speciosa</i>	Vilva	விவ்வை
5	<i>Banksia speciosa</i>	Mandhara	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia venusta</i>	Immaadu	இமடாத்
8	<i>Bauhinia variegata</i>	Nattuma	நட்டமா
9	<i>Berzonia elliptica</i>	Paru	பரூ
10	<i>Butea monostachya</i>	Marukkamaram	மருக்கமரம்
11	<i>Butea turkestanica</i>	Nannu, Semmlaya	நன்னு
12	<i>Chrysophyllum moribundum</i>	Purmar	புரமரம்
13	<i>Croton ficoides</i>	Sarakondrai	சரகண்டிரை
14	<i>Croton retusus</i>	Sengondrai	செங்கண்டிரை
15	<i>Diospyros ebenum</i>	Puramaram	புரமரம்
16	<i>Diospyros retusa</i>	Kongu, Marjalilavu	கொங்கு மஞ்சள்
17	<i>Diospyros retusa</i>	Nannu	நன்னு
18	<i>Diospyros retusa</i>	Mavalingam	மாவலிங்கம்
19	<i>Diospyros retusa</i>	Vilva	விவ்வை
20	<i>Diospyros retusa</i>	Sunilva, Sunilva	சூனில்
21	<i>Diospyros retusa</i>	Karungali	கருங்கலை
22	<i>Diospyros retusa</i>	Vagala	வாகை
23	<i>Diospyros retusa</i>	Kallitu	கல்லை
24	<i>Hibiscus speciosa</i>	Aaruppoovaradu	ஆரப்புவரது
25	<i>Hibiscus speciosa</i>	Achi	ஆச்சி
26	<i>Hibiscus speciosa</i>	Achi	ஆச்சி
27	<i>Lantana camara</i>	Odham	ஓதம்
28	<i>Lantana camara</i>	Poo Marudhu	பூ மருது
29	<i>Lantana camara</i>	Neikottamaram	நெகட்டமரம்
30	<i>Lantana camara</i>	Vilva	விவ்வை
31	<i>Lantana camara</i>	Pimpattai	பிம்பட்டை
32	<i>Lantana camara</i>	Eluppu	எலுப்பு
33	<i>Lantana camara</i>	UththamPaalai	உத்தம்பலை
34	<i>Lantana camara</i>	Megachamaram	மேகச்சமரம்
35	<i>Lantana camara</i>	Kadamba	கடம்பு
36	<i>Lantana camara</i>	Nannu	நன்னு
37	<i>Lantana camara</i>	Vellu Nannu	வெள்ளை நன்னு
38	<i>Phacelia speciosa</i>	Eachi	ஏச்சி
39	<i>Phacelia speciosa</i>	Pungam	புங்கம்


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40	<i>Premna mollissima</i>	Munna	முண்ணா
41	<i>Premna serratifolia</i>	Nannamunai	நன் முண்ணா
42	<i>Premna tomentosa</i>	Malapparamai	மலர் முட்டை
43	<i>Preocarpus cuneata</i>	Vanni maram	வண்ண மரம்
44	<i>Preocarpus nairaparvula</i>	Vengai	வெங்கை
45	<i>Preocarpium cuneata</i>	Vernangu Tada	வேங்கை தாது
46	<i>Preocarpus nairaparvula</i>	Talam	தாலை
47	<i>Psidium coccineum</i>	Kampala	கம்பலா
48	<i>Salvadora persica</i>	Ugai Maram	உகை மரம்
49	<i>Sarcocolla coriarioides</i>	Marpungan Seapudai	மரபுங்கன் செப்புடை
50	<i>Sarcocolla</i>	Atoda	அட்டை
51	<i>Struthus tere</i>	Parai maram	பரை மரம்
52	<i>Struthus maxima</i>	Vetti	வெட்டி
53	<i>Struthus parvifolia</i>	Therthang Kottai	தேர்தங்க கொட்டை
54	<i>Syzygium cumini</i>	Natal	நாடல்
55	<i>Ternstroemia bellina</i>	Thanda	தண்டா
56	<i>Ternstroemia araria</i>	Ven maradhu	வேன் மரத்து
57	<i>Ternstroemia</i>	Sandhana vembu	சந்தன வெம்பு
58	<i>Thecophora peruviana</i>	Pumaratu	புமரத்து
59	<i>Walsbya coccinea</i>	vabhura	வாபுரா
60	<i>Walsbya coccinea</i>	Veppala	வேப்பலா
61	<i>Phyllanthus niruri</i>	Kodukkapuli	கோதுக்கபுளி


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

-----சுரங்கம்

சுரங்கங்களில் குவாரி செல்பாடுகளுக்கான சுற்றுச்சூழல் அனுபதி கீழ்க்கண்ட நுபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது. SEAC, -----, தேதியிடப்பட்டு சுற்றுச்சூழல் அனுபதி ----- தேதி வரை செல்லத்தக்கதாக உள்ளது.

பசுமை பகுதி வளர்ச்சி	குவாரியின் எல்லையை சுற்றி வேலி அமைக்க வேண்டும்
மேம்பாட்டுக்கான காங்கரீத் திட்டம்	காங்கரீதின் ஆழம் தளமட்டத்திலிருந்து ... மீட்டர்க்கு மிகாமல் இருக்க வேண்டும்.
நடப்பட்டு	காற்றில் மாக ஏற்படாதவாறு காங்கரீதின் மேற்கொள்ள வேண்டும்.
பராமரிக்கப்படவேண்டிய மாங்கல் எண்ணிக்கை	மாங்கல் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் லாரிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும்.
	இனரச்சல் அளவையம் தூசி மாகப்பாட்டையம் குறைப்பதற்காக குவாரியின் எல்லையை சுற்றி அபர்த்தியான பசுமை பகுதியை ஏற்படுத்த வேண்டும்.
	சுரங்கத்தில் வெடி வைக்கும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறும் மற்றும் சுறகள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உன்னிப்பாக செயல்படுத்தப்பட வேண்டும்.
	காங்கரீதில் இருந்து ஏற்படும் இரைச்சல் அளவு 85 டிபிபைல் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.
	காங்கரீட் விதிகள் கீழ் காங்கரீதில் உள்ள பணியாகருக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு க்காதாமுள்ள கழிப்பறை வசதிகளை செய்து தர வேண்டும்.
	கிராமம் அல்லது பஞ்சாயத்து வழியாக வாகனங்கள் செல்லும் சாலைகளை தொடர்ந்து நன்கு பராமரிக்க வேண்டும்.
	சுரங்கப்பணிகளால் அருகில் உள்ள விலசாயப் பணிகள் மற்றும் நீர்நிலைகள் பாதிக்கப்படக் கூடாது.
	நீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யப் வனத்தில் நிலத்தடி நீர் தாதுகளை தொடர்ந்து கண்காணிக்க வேண்டும்.
	சுரங்கத்திலிருந்து கனிம பொருட்களை எடுத்துச் செல்வது கிராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுச்சூழல் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும்.
	சுரங்கப்பணிகள் முடிக்கப்பட்டவுடன் 3-4 மீட்டர் திட்டத்தில் உள்ளவாறு சுரங்கத்தினை மூட வேண்டும்.
	சுரங்க நடவடிக்கைகளை முடித்தபின்னர் சுரங்கப் பகுதி மற்றும் சுரங்க நடவடிக்கைகளால் இடைபூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்து தாவரங்கள் விலங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பசுமைப்பகுதியை உருவாக்க வேண்டும்.
	முழுமையான நுபந்தனைகளை அறிய பாரிவேஷம் (parivesham) என்கிற இணையதளத்தைப் பார்வையிடவும். மேலும் எந்தவித சுற்றுச்சூழல் சார்ந்த பகார்களுக்க, செல்லையில் உள்ள சுற்றுச்சூழல் மற்றும் வன அமைச்சகத்தின் அருங்கிணைந்த வட்டம் அலுவலகம் 044-23222223 அல்லது தமிழ்நாடு மாநக கட்டுப்பாட்டு வாரியத்தின் மாவட்ட சுற்றுச்சூழல் போர்ட்டானை அணுகவும்.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

The following inadvertent error was noted in the minutes of 293rd SEAC meeting held during 8th July, 2022, and the same is corrected as follows:

Agenda & File No.	Page No.	As stated in minutes	May be read as
Agenda No: 293-10 (File No. 9360/2022)	31	20.As accepted by the Project proponent the CER cost Rs. 6 Crore and the amount shall be spent for the committed activities before obtaining CTO from TNPCB	20.As accepted by the Project proponent the CER cost Rs. 6.6 Crore and the amount shall be spent for the committed activities before obtaining CTO from TNPCB

Chairman

SEAC-TN 27/7/2022