

State Expert Appraisal Committee (SEAC)

Minutes of 441st meeting of the State Expert Appraisal Committee (SEAC) held on 31.01.2024 (Wednesday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saldapet, Chennai 600 015 for consideration of Mining projects.

Confirmation of Earlier Minutes

The minutes of the 440th SEAC meeting held on 11.01.2024 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 441-01

(File No: 10555/2023)

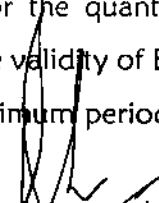
Proposed Rough stone & Gravel Quarry over an extent of 1.53.5Ha at S.F.Nos.601/1 & 601/5 of Lembalakudi Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu by Thiru. A. Rasu - For Terms of Reference. (SIA/TN/MIN/453298/2023, Dated: 25.11.2023).

The proposal was placed in the 441st Meeting of SEAC held on 31.01.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.A.Rasu has applied for Terms of Reference for the Proposed Rough stone & Gravel Quarry over an extent of 1.53.5Ha at S.F.Nos.601/1 & 601/5 of Lembalakudi Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 48,825 m³ of Rough stone & 3,478 m³ of Gravel with ultimate depth of mining 32m.
4. Earlier, the project proponent has obtained EC from SEIAA vide Lr.No.SEIAA-TN/F.No.5074/1(a)/EC.No.3264/2016 dated. 09.07.2016 for the quantity of 232577 cu.m of Rough stone up to the depth of 44m with the validity of EC co-terminating with the mining lease period or limited to a maximum period of 5


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years from the date of issue whichever is earlier.

During the meeting, the SEAC observed the following.

- As per the letter from the AD/mines vide Rc.No.421/2023 (G&M) dated:07.09.2023, the Existing pit details are as follows,

S.No	No. of Pit	Length	Width	Depth
1.	Pit	93.0m	65.0m	50.0m

- As per the details submitted by the PP and EIA-Coordinator, the production details are as follows

Parameters	As per the earlier mining plan	As per the earlier EC issued by the SEIAA-TN	Actual achieved
Total Excavation	2,32,577 m ³	2,32,577 m ³	3,02,250 m ³
Depth	44m	44m	50m

Based on the presentation and documents furnished by the PP, committee noted the that the Proponent had achieved a quantity of 3,02,250 cbm of Rough stone and 50m in depth for the period from 2016-17 to 2020-2021 in the above subject area as against EC approved quantity. **Hence, based on the above, Committee decided to treat the case as violation.**

The Committee further noted the following.

- The Ministry issued a Standard Operating Procedure dated 7th July 2021 bearing the file no. 22-21/2020-IA.III, for identification and handling of violation cases under EIA Notification 2006 in compliance to order of the Hon'ble National Green Tribunal in Appeal No. 34/2020 (WZ) titled Tanaji B. Gambhire Vs Chief Secretary, Government of Maharashtra.
- This SOP was challenged in the Madurai Bench of the Hon'ble High Court of Madras in the matter W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India and was interim stayed vide order dated 15th July 2021.
- However, The Hon'ble Supreme Court in W.P.(C) No.1394/2023 titled Vanashakti vs. Union of India, has stayed the operation of both the Office Memoranda dated:7th July 2021 and dated 28th January 2022 issued by the


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Ministry on 02.01.2024.

Therefore, the Committee decided to defer this proposal as the SoP issued by the MOEF&CC for considering violation cases is under stay by the Hon'ble Madurai Bench of Madras High Court and by the Hon'ble Supreme Court.

Agenda No: 441-02

(File No: 10562/2023)

Proposed Rough stone & Gravel Quarry over an extent of 5.63.5Ha at S.F.Nos.497 (Part), 502/1(Part), 503/2(Part) of Puravipalyam Village, Pollachi Taluk, Coimbatore District, Tamil Nadu by Thiru.K.C. Adith - For Terms of Reference. (SIA/TN/MIN/448595/2023, Dated:25.11.2023)

The proposal was placed in the 441st Meeting of SEAC held on 31.01.2024. The Committee noted that the Project Proponent vide letter dated 29.12.2023 has requested for withdrawal of the application stating the following.


"...I wish to inform that I have recently established a Crushing Unit in my native District to manufacture Jellies of all Sizes M-Sand and P-Sand. It is in the Primitive Stage. My Prescence is very much required to set right the teething problems in the beginning stage. Since huge investment has been made in the project, my personal supervision is very much required. Hence, I am in a position to sit in the Crushing Unit site to bring the project as a successful one. In view of the above I am not in a position to look after quarrying activities in the proposed project of Rough Stone quarry in the event of grant of EC and quarry lease. Hence the application made for the issuance of EC in respect of 5.63.5 Hects of Patta lands in S.F.Nos 497 Part (1.90.00) 502/1 (2.51.00) and 503/2 Part (1.22.00) of Puravipalayam Village Pollachi Taluk Coimbatore District need not be processed further and may be rejected as withdrawn".

The Committee decided to accept the withdrawal request of the Project Proponent and communicate the same to SEIAA.

Agenda No: 441-03

(File No: 10590/2023)

Proposed Rough stone & Gravel Quarry over an extent of 4.99.39 Ha at S.F.Nos. 719/1(Part), 720A(Part), 720/2, 720/3, 720/4, 720/5, 720/6, 720/7, 720/8, 720/9,


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720/10, 720/11, 720/12, 720/13(Part) and 720/14 (Part) of Vadakku Ariyanayagipuram-II Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu by Thiru.R.P.Rahul, - For Terms of Reference. (SIA/TN/MIN/454785/2023, Dated: 08.12.2023).

The proposal was placed in the 441st Meeting of SEAC held on 31.01.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.R.P.Rahul, has applied for Terms of Reference for the Proposed Rough stone & Gravel Quarry over an extent of 4.99.39 Ha at S.F.Nos. 719/1(Part), 720/1(Part), 720/2, 720/3, 720/4, 720/5, 720/6, 720/7, 720/8, 720/9, 720/10, 720/11, 720/12, 720/13(Part) and 720/14 (Part) of Vadakku Ariyanayagipuram-II Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 1149795m³ of Rough stone & 83680m³ Gravel with ultimate depth of mining 57m BGL.

Based on the presentation and details furnished by the project proponent, **SEAC decided to grant 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:

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. If Kalakad Mundanthurai Tiger Reserve is located within a distance of 10.0km, the PP shall obtain and submit NBWL Clearance, as per the MoEF & CC Office Memorandum no. FC-11/119/2020-FC dated 17th May, 2022.
3. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.

4. Since the waterbodies are situated nearby, the PP shall carry out the intensive scientific assessment on the hydrogeological condition of the quarry to consider the decision on rerouting of the Odai passing through the proposed lease area.
5. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
6. Detailed study report on flora and fauna in and nearby the quarry site.
7. The Proponent shall develop greenbelt and garland drain around the boundary of the proposed quarry and the photographs indicating the same shall be shown during the EIA appraisal.

Agenda No: 441-04

(File No: 10604/2023)

Proposed Rough stone Quarry over an extent of 3.03.5 Ha at S.F.Nos. 208/1(Part) of Alur Village, Housr Taluk, Krishnagiri District, Tamil Nadu by Tmt. B. G. Manjula - For Terms of Reference. (SIA/TN/MIN/431021/2023, Dated: 27.05.2023).

The proposal was placed in the 441st Meeting of SEAC held on 31.01.2024. The SEAC noted that the project proponent has not attended the meeting and the project proponent vide email dated 30.01.2024 stating his inability to attend the meeting on the aforesaid date. Hence the subject was not taken up for discussion.

Agenda No: 441 - 05

File No: 10577/2023

Proposed Rough Stone and Gravel quarry over an extent of 3.23.0 Ha of S.F.Nos. 770/2B(Part), 778/3B1(Part) and 778/3B2 (Part), Anjur Village, Pugalur Taluk, Karur District, Tamil Nadu by M/s. Kousic and Co Blue Metals - For Terms of Reference. (SIA/TN/MIN/454547/2023, 06/12/2023)

The proposal was placed in this 441st meeting of SEAC held on 31.01.2024. The Project Proponent made a detailed presentation on the proposed project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). **The SEAC noted the following among other things:**

1. The Project Proponent, M/s. Kousic and Co Blue Metals has applied seeking


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Terms of Reference for EIA study for the existing Rough Stone and Gravel quarry (next scheme of mining) over an extent of 3.23.0 Ha of S.F.Nos. 770/2B(Part), 778/3B1(Part) and 778/3B2 (Part), Anjur Village, Pugalur Taluk, Karur District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006 as amended.
3. Previous EC Lr. No. SEIAA-TN/F.No.5835/1(a)/EC-3926/2016, dated: 07.06.2017 for the production of 300425 cbm of Rough stone to a depth of 22m in 5 years.

Based on the document and details furnished by the project proponent, SEAC decided to grant **Terms of Reference (ToR) with Public Hearing** subject to the following ToRs, in addition to (i) the standard terms of reference for EIA study shown in **Annexure-I** and (ii) the Standard ToR for non-coal mining projects and details issued by the MoEF&CC to be included in EIA/EMP Report:

1. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
2. The project proponent shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures along with the budgetary allocation for the non-compliance stated therein.
3. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc located within 1 km of the proposed quarry.
4. The Proponent shall justify the selection of the site for carrying out the stone quarrying with the total volume arrived for the excavation & production adequate details such as lithology of the deposit, reserve estimation, place for waste dump/mined mineral storage, end-use of mined materials, identified potential customers/end-users and travel path.

5. 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.
6. The PP shall carry out a detailed hydrogeological study to spell out the water management plan for the proposed site.
7. The Proponent shall carry out Bio diversity study through Department of Ecology and Environmental Sciences, Pondicherry University and the same shall be included in EIA Report.
8. 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.
9. The PP shall prepare a conceptual working plan accommodating the remedial actions such as inclusion of haul road accessibility keeping the benches intact, based on the studies carried out to assess the slope stability of the working benches to be constructed and existing quarry wall apart from the proposed mining methodology.

Agenda No. 441-06

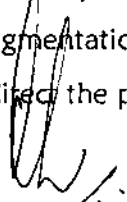
File No: 1193

Existing Black Granite Quarry over an extent of 6.59.91 Ha. at S.F. Nos. 83 (Part) of Jamanahalli Village, Pappireddipatti Taluk, Dharmapuri District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited - For Environmental Clearance under violation category. (SIA/TN/MIN/72624/2018 dated: 24.02.2022)

The subject was earlier placed in the 380th meeting of SEAC held on 17.05.2023 and the SEAC observed that the proposal of Mining of Black Granite in an extent of 6.59.91 Ha & SF No. 83(part) for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. The Committee decided to recommend the proposal to SEIAA for grant of EC subject to the conditions stated therein inter alia the following:

1. The amount prescribed for Ecological remediation (Rs. 13,95,000), natural resource augmentation (Rs. 2,90,000) & community resource augmentation (Rs. 1,00,000), totaling Rs. **17,85,000**. Hence the SEAC decided to direct the project


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- proponent to remit the amount of Rs. **17,85,000** in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of three years. If not, the bank guarantee will be forfeited to TNPCB without further notice.
 3. The amount committed by the Project proponent for CER (Rs. **2,63,964**) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN. However, the PP shall supervise the work and submit the status of the work complied pertaining to the CER within a period of one year to the DEE/TNPCB and the SEIAA.
 4. The project proponent shall submit the proof for the action taken by the State Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
 5. The company shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining within a period of two weeks and submit the same to SEAC before grant of EC, if not produced earlier.

Subsequently the subject was placed in the 627th meeting of Authority held on 06.06.2023. The Authority decided to refer back the subject to SEAC for furnishing the recommended quantity of RoM, Black Granite and the depth of mining permitted along with mine plan period so as to grant Environmental Clearance under violation category for the project.

Hence the subject was taken up for discussion in the 404th meeting of SEAC held on 25.08.2023. SEAC decided to recommend the proposal for the grant of Environmental Clearance under violation category for the annual peak RoM production capacity not exceeding 17388 m³ of RoM, 1739 m³ of Black Granite by maintaining the ultimate


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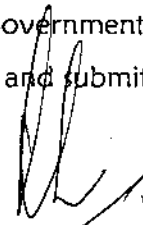

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depth of mining of 33m AGL subject to the conditions as recommended in the 380th meeting of SEAC held on 17.05.2023.

After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to call for the following additional particulars as recommended by the SEAC.

1. The amount prescribed for Ecological remediation (Rs. 13,95,000), natural resource augmentation (Rs. 2,90,000) & community resource augmentation (Rs. 1,00,000), totaling Rs. **17,85,000**. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. **17,85,000** in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of three years. If not, the bank guarantee will be forfeited to TNPCB without further notice.
3. The amount committed by the Project proponent for CER (Rs. **2,63,964**) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN. However, the PP shall supervise the work and submit the status of the work complied pertaining to the CER within a period of one year to the DEE/TNPCB and the SEIAA.
4. The project proponent shall submit the proof for the action taken by the State Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
5. The company shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining within a period of two weeks and submit the same to SEAC before grant of EC, if not produced earlier.


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On receipt the details sought above, the subject shall be placed before the Authority for further deliberations and to decide on future course of action.

The PP has furnished reply vide letter dated 27.12.2023. Hence the subject was placed in the 655th meeting of Authority held on 19.09.2023. The Authority noted that the PP has furnished the following reply among other things.

Sl.No.	SEAC condition	PP's Reply
5.	The company shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining within a period of two weeks and submit the same to SEAC before grant of EC, if not produced earlier.	<p>Due to financial crisis of the Company, Govt. has deferred the payment of Dead Rent and Area Assessment and other mining dues payable by TAMIN vide G.O (D)No.43 Indus. (MME.1) Dept. dt:16.05.2022. Copy of the G.O is enclosed for kind reference.</p> <p>Further, TAMIN has requested to extend the same up to 31.03.2025 vide letter Rc No.3440/ML5/2019, dt: 17.10.2023. copy of the letter is enclosed for kind perusal. It is under active consideration of the Govt.</p>

In view of the above, the Authority decided to refer back the subject to SEAC for furnishing remarks.

The subject was taken up for discussion in this 441st meeting of SEAC held on 31.01.2024. The SEAC noted that the PP vide letter dated 29.01.2024 has sought additional time for submission of the details. Hence the Committee decided to defer the subject to a later date.

Agenda No. 441-07

File No: 10038/2023

Proposed Ordinary Earth quarry lease over an extent of 3.60.42Ha at S.F.Nos. 1606, 1609(Part) & 1610/2B (Part), in Andipatti Bit-II Village, Andipatti Taluk, Theni District,


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Tamil Nadu by Thiru.M.Kasimayan - For Environment Clearance.
(SIA/TN/MIN/428795/2023 Dt:11.05.2023)

The subject was earlier placed in the 391st meeting of SEAC held on 13.07.2023 and 415th meeting of SEAC held on 12.10.2023 and the SEAC has furnished its recommendations for the grant of Environmental Clearance to the project subject to the conditions stated therein.

Subsequently the subject was placed in the 668th meeting of Authority held on 31.10.2023. The Authority, after detailed discussions decided the following:

1. To refer back the subject to SEAC as the period of mining approved in the mining plan is 3 years while it is mentioned as 2 years in the SEAC recommendations.

2. And to call the following additional particulars from the PP:

KML file reveals there is intensive agriculture surrounding the proposed project site which will be impacted by the proposed mining activity. Hence the PP shall furnish the letter obtained from the Director, Department of Agriculture stating the productivity status and productive potential of the proposed mine lease area. The proponent is advised to submit the details sought within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.

The PP vide letter dated 11.01.2024 has furnished the reply along with the NOC dated 04.01.2024 issued by Director, Department of Agriculture for the proposed mining activity. Hence the subject was placed before the SEAC during its 441st meeting held on 31.01.2024. The Committee carefully examined the reply furnished by the PP and decided to reiterate the recommendations already made in the 415th meeting of SEAC held on 12.10.2023 considering the agricultural fields surrounding the proposed site as a part of water conservation and based on the origin of deposit geology in the proposed site, **stating that the production quantity shall be 21744 cbm of Ordinary Earth (RoM) and the annual peak production shall not exceed 10872 cbm of Ordinary Earth for the approved mining period of 2 years.**

Agenda No.441-08

File No.10584/2023


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Existing Limestone quarry lease over an extent of 32.29.5Ha of Patta land in SF Nos. 153/16, 153/17, 153/18, 153/19, 153/20, etc..., Periyathirukonam Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu by M/s. Chettinad Cement Corporation Private Limited – For Amendment and extension of EC.

(SIA/TN/MIN/306843/2023 dt 01/12/2023)

The proposal was placed in this 441st meeting of SEAC held on 31.01.2024. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

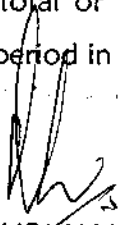
The SEAC noted the following among other things:

1. The Project Proponent, **M/s. Chettinad Cement Corporation Private Limited** has applied **seeking amendment and extension** of validity of Environmental Clearance for the existing Limestone quarry lease over an extent of 32.29.5Ha of Patta land in SF Nos. 153/16, 153/17, 153/18, 153/19, 153/20, etc..., Periyathirukonam Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu
2. The proposed quarry/activity is covered under Category “B1” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006, as amended.
3. EC issued vide SEIAA Lr. No. SEIAA-TN/F.No.6283/ALR/1(a)/EC-2019, dated: 09.08.2019 for the production of 1874401 Tonne of Limestone and 325371 Tonne of Marl for 5 years for the depth of 34m BGL.
4. CCR obtained from IRO(SZ), MoEF&CC vide Lr. No.EP/12.1/2023-24/SEIAA/56/TN/1136 dated 26.10.2022.
5. PWD letter no.37/PY/DB/F.14(A)/2018 dated 13.02.2018
6. Anna university study report on impact of change in safety distance of mining on River Marudaiyar dated 21.11.2023

The SEAC observed the MoEF&CC Notification S.O. 1247(E), dated the 18 March, 2021, states that “.....the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid... ”.


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In view of the above, SEAC confirmed that the **existing EC is valid upto 08.08.2025**. SEAC noted that the report prepared by the Anna University submitted by the PP is not based on actual data that is available with the Water Resources Department.

Hence, based on the presentation and the documents furnished by the PP and the EIA Coordinator, the SEAC decided to call revised report on hydrogeology from the PP furnishing:

1. Actual data on maximum flow in the River Marudaiyar for past 25 years period considering 100 mm rainfall along with inundation details including the flow direction of river, shall be obtained from the PWD-Water Resources Department of Government of Tamil Nadu.
2. Actual boundary of the river at the either side of the bank of the river course.
3. To study the Impact of mining activity in the 50m to 100m safety zone from the northern boundary of the River Marudaiyar and to suggest mitigation measures.
4. As seen on the Google imagery furnished by the PP, the Marudaiyar River narrows down near the project site. The possibility of restoration of the river through deepening activities to its original course shall be studied in consultation with the PWD-Water Resources Department of Government of Tamil Nadu.

On receipt of the aforesaid details, the SEAC will further deliberate and decide on future course of action.

Agenda No: 441 - 09


(File No.10564/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 8.34.40 Ha at S.F.Nos. 196/2B(P), 197/2B(P), 195/2A(P), 195/2B(P) & 195/3(P) Kasthuriengapuram Part-II Village, Tisaiyanvilai Taluk, Tirunelveli District, Tamil Nadu by Thiru. S. Velu - For Terms of Reference. (SIA/TN/MIN/ 453376 /2023, dated: 25.11.2023)

The proposal was placed for appraisal in the 441st Meeting of SEAC held on 31.01.2024. 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.Velu** has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry lease over an extent of **8.34.40 Ha**


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at S.F.Nos. 196/2B(P), 197/2B(P), 195/2A(P), 195/2B(P) & 195/3(P) Kasthuriengapuram Part-II Village, Tisaiyanvilai Taluk, Tirunelveli District, Tamil Nadu.

2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 10 years. The mining plan is for 5 years & production should not exceed 11,90,435m³ of Rough stone & 1,45,604m³ of Gravel. The annual peak production 2,46,330m³ of Rough stone & 50,730m³ of Gravel. The ultimate depth of mining is shown as 57m BGL.

Now, the proposal was placed in the 441th SEAC meeting held on 31.01.2024. Based on the presentation and documents and furnished by the proponent, committee noted the following

1. As per the Central Electricity Authority Notification No. CEA-PS-16/1/2021-CEI Division dt 08.07.2023, Clause 67,

(1) For the purpose of computing the vertical clearance of an overhead line, the maximum sag of any conductor shall be calculated on the basis of the maximum sag in still air and the maximum temperature as specified under regulation 59 and computing any horizontal clearance of an overhead line the maximum deflection of any conductor shall be calculated on the basis of the wind pressure specified under regulation 59.

(2) No blasting for any purpose shall be done within three hundred metre from the boundary of a substation or from the electric supply lines of voltage exceeding 650 V or tower structure thereof without the written permission of the owner of such substation or electric supply lines or tower structures; and in case of mining lease hold area, without the written permission of the Electrical Inspector of mines.

(3) No cutting of soil within ten metre from the tower structure of 110 kV and above voltage level shall be permitted without the written permission of the owner of tower structure.

(4) No person shall construct brick kiln or other polluting units near the installations or transmission lines of 220 kV and above within a distance of

500 metre.

- II. There are three Electric towers within 300m radius from the proposed mining site.

Based on the above facts, SEAC decided to recommend for grant of **Terms of Reference (TOR) with Public Hearing** as per the **annexure I** of this minute, 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:

1. The proponent shall obtain NOC from the Competent Authority under the provisions of the Central Electricity Authority Notification No. CEA-PS-16/1/2021-CEI Division dt 08.07.2023.

Agenda No: 441 - 10

(File No.10578/2023)

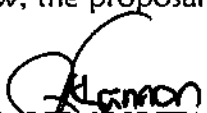
Proposed Rough Stone Quarry lease over an extent of 4.47.85 Ha at S.F.No. 773/2, 776/3, 777/1, 778/1A(Part) & 807/2C2 Anjur Village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru. P. Pazhanisami- For Terms of Reference. (SIA/TN/MIN/448865/2023, dated: 06.12.2023)

The proposal was placed for appraisal in the 441st Meeting of SEAC held on 31.01.2024. 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. P. Pazhanisami** has applied for Terms of Reference for the Proposed Rough Stone Quarry lease over an extent of 4.47.85 Ha at S.F.No. 773/2, 776/3, 777/1, 778/1A(Part) & 807/2C2 Anjur Village, Pugalur Taluk, Karur 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 for 5 years. The mining plan is for 5 years & production should not exceed 5,96,924m³ of Rough stone. The annual peak production 1,64,150m³ of Rough stone. The ultimate depth of mining is shown as 50m BGL.

Now, the proposal was placed in the 441th SEAC meeting held on 31.01.2024. Based


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on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing as per the **annexure I** of this minute, 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:

1. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc along with EIA Report.
2. The project proponent shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures along with the budgetary allocation for the non-compliance stated therein along with EIA Report.
3. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the EIA study, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus for evaluating the slope stability measures and monitoring system in the proposed quarrying operation in accordance with the provisions of MMR 1961 & DGMS Circulars.

Agenda No: 441 - 11

(File No.10592/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 1.81.0 Ha at S.F.No. 103/3A1A(P), 103/3A2 & 103/3B1 Kodangipalayam Village, Palladam Taluk, Tiruppur District, Tamil Nadu by Thiru. V. Gangesan - For Terms of Reference. (SIA/TN/MIN/454038 /2023, dated 02.12.2023)


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The proposal was placed for appraisal in the 441st Meeting of SEAC held on 31.01.2024. 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. V. Gangesan** has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry lease over an extent of 1.81.0 Ha at S.F.No. 103/3A1A(P), 103/3A2 & 103/3B1 Kodangipalayam Village, Palladam Taluk, Tiruppur 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 for 5 years. The mining plan is for 5 years & production should not exceed 1,00,539m³ of Rough Stone & 2,116m³ of gravel. The annual peak production should not exceed 21,945m³ of Rough Stone & 2,116m³ of gravel. The ultimate depth of mining is shown as 44m BGL.

Now, the proposal was placed in the 441th SEAC meeting held on 31.01.2024. Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing as per the **annexure 1** of this minute, 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:

1. The project proponent shall furnish Certified Compliance Report (CCR) obtained from IRO (SZ), MoEF&CC and with mitigation measures along with the budgetary allocation for the non-compliance stated therein.
2. Land document to be registered.
3. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the EIA study, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras,


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NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus for evaluating the slope stability measures and monitoring system in the proposed quarrying operation in accordance with the provisions of MMR 1961 & DGMS Circulars and the same shall be submitted along with EIA Report.

4. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc and the same shall be submitted along with EIA Report.
5. The proponent shall furnish the details on the schools (both Govt. & Private schools), industries, factories and other sensitive structures including temples located within 1 km from the quarry site, and detail the impact of mining activities & mitigation measures for protecting these structures.
6. No. of Govt/Pvt. Schools (or) any other Educational Institutions located within 500m from the proposed area & no. of students (including Residential) studying in it.

Agenda No: 441 - 12

(File No.10599/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.30.0 Ha at S.F.No. 68/2C (Part) Chikkarampalayam Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu by Tvl. Saravana Blue Metals Industry - For Terms of Reference.

(SIA/TN/MIN/ 451529 /2023, dated: 09.11.2023)

The proposal was placed for appraisal in the 441st Meeting of SEAC held on 31.01.2024. 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, **Tvl. Saravana Blue Metals Industry** has applied for Terms of Reference for the Proposed Rough Stone & Garvel quarry lease over


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an extent of 1.30.0 Ha at S.F.No. 68/2C (Part) Chikkarampalayam Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu.

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

During the presentation, EIA Coordinator stated that the proponent was absent for the meeting. Hence, the proposal was not taken up for appraisal.

Agenda No: 441 - 13

(File No.10613/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 7.51.5 Ha at S.F.No. 69 Chikkarampalayam Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu by Tvl. Saravana Blue Metals Industry - For Terms of Reference (SIA/TN/MIN/456149/2023, dated: 20.12.2023)

The proposal was placed for appraisal in the 441st Meeting of SEAC held on 31.01.2024. 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, **Tvl. Saravana Blue Metals Industry** has applied for Terms of Reference for the Proposed Rough Stone & Gravel quarry lease over an extent of 7.51.5 Ha at S.F.No. 69 Chikkarampalayam Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 5 years. The mining plan is for 5 years & production should not exceed 11,94,455m³ of Rough Stone & 1,18,502m³ of Gravel. The annual peak production 2,66,775 m³ of Rough Stone & 68,972 m³ of Gravel. The ultimate depth of mining is shown as 37m BGL.
4. Earlier PP had obtained Environmental Clearance from DEIAA vide Lr.No.DEIAA-CBE-I/F.No.231/2(a&b)/E.C.No:02/2017 dated: 21.06.2017.
5. As per the District Collector letter vide R.C. No. 462/Mines/2019-3 Dated: 03.07.2020, the PP was directed to pay Rs.22,62,075/- as penalty for operating the mines without Environmental Clearance as per EIA Notification 2006.


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6. Subsequently, PP had filed a case in Hon'ble Madras High Court and the court vide order dated 12.06.2020 had disposed of the case with a direction to the PP to pay Rs. 10,000/- to the Chief Justice Relief Fund by 31.07.2020.

During the presentation, EIA Coordinator stated that the proponent was absent for the meeting. Hence, the proposal was not taken up for appraisal.

Agenda No: 441 -14

(File No.10565/2023)

Existing Multi-Colour Granite Quarry lease over an extent of 4.31.0 Ha (Patta Land) at S.F.Nos. 108/1, 108/2, 108/3, 108/4, 108/5, 108/6, 108/7, 108/8, 108/9, 108/10, 108/11, 108/12, 108/13, 108/14, 108/15, 108/16, 108/17 of Singanallur village and S.F.No. 614/1 of Pandiyampalayam Village, Perundurai Taluk, Erode District, Tamil Nadu by Thiru.P. Velmani - For Terms of Reference. (SIA/TN/MIN/453275/2023 dated 24.11.2023)

The proposal was placed for appraisal in the 441st Meeting of SEAC held on 31.01.2024. 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.P. Velmani** has applied for Terms of Reference for the Existing Multi-Colour Granite Quarry lease over an extent of 4.31.0 Ha (Patta Land) at S.F.Nos. 108/1, 108/2, 108/3, 108/4, 108/5, 108/6, 108/7, 108/8, 108/9, 108/10, 108/11, 108/12, 108/13, 108/14, 108/15, 108/16, 108/17 of Singanallur village and S.F.No. 614/1 of Pandiyampalayam Village, Perundurai Taluk, Erode 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. Earlier, the proponent has obtained EC from DEIAA vide Lr.No.DEIAA-ERD/F.No.32213/EC.No.13/2018 dated.03.10.2018. The EC was accorded for the quantity of 17,901m³ of multi-colour granite up to the depth of 10m.
4. Now, based on MoEF&CC O.M dated.24.04.2023, the proponent has submitted the application at SEIAA-TN for re-appraisal of EC granted by DEIAA.
5. From the documents submitted by the proponent, it was ascertained that the proponent has achieved a production quantity of 9460.325m³ of multi-color

granite as against the approved quantity of 17,901m³.


6. Further, the proponent has submitted approved scheme of mining for the period 2023-2028 with the ROM quantity of 59,570m³ which includes 17,871m³ of granite recovery (@30%) & 41,699m³ of granite waste upto the depth of 28.5m.
7. Earlier, the proponent submitted an application seeking Environmental Clearance under 'B2' category vide SEIAA File No.10233/2023 (Online Proposal No.SIA/TN/MIN/431141/2023 dated.27.05.2023). The proposal was placed in the 412th SEAC meeting held on 04.10.2023.

Based on the presentation and documents furnished by the proponent, SEAC noted that the applied lease area falls under cluster mining since the total area of other existing quarries within 500m radius is more than 5 Ha. Hence the Committee directed the Proponent to withdraw this online application and PP shall apply a fresh application for obtaining Terms of Reference along with revised 500m cluster certificate indicating the status of other quarries (existing/abandoned/expired/proposed/instant) located in the cluster zone.

8. Subsequently, the proponent has submitted a proposal under 'B1' category and has submitted a request to withdraw the previous proposal (F.No.10233) as per the directions of the Committee.
9. The proposal submitted under 'B1' category is placed for appraisal in this 441st SEAC meeting.

Based on the presentation made by the proponent, **SEAC decided to recommend the proposal for Terms of Reference (TOR) with Public Hearing subject to the following additional TORs & ToRs in Annexure of this minutes**, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proponent shall furnish the Certified Compliance Report for the EC dated.03.10.2018 as per the MoEF&CC O.M dated.08.06.2022.
2. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.


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3. The PP shall prepare a conceptual working plan accommodating the remedial actions based on the scientific studies carried out to assess the slope stability of the working benches to be constructed and existing quarry wall, indicating the stability status of the quarry wall and slope stability action plan during the time of appraisal while obtaining the EC.
4. The PP shall undertake Hydrogeology study considering nearby existing wells, Aquifers, Ground water & surface water levels etc., within the radius of 1km.
5. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:
 - i. Original pit dimension of the existing quarry
 - ii. Quantity achieved Vs EC Approved Quantity
 - iii. Balance Quantity as per Mineable Reserve calculated.
 - iv. Mined out Depth as on date Vs EC Permitted depth
 - v. Details of illegal/illicit mining carried out, if any
 - vi. Non-compliance/Violation in the quarry during the past working.
 - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
 - viii. Existing condition of Safety zone/benches
 - ix. Details of any penalties levied on the PP for any violation in the quarry operation.
6. The PP shall submit the slope stability action plan by carrying out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall along with a conceptual working plan for maintaining the safety aspects within the lease.
7. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
8. The study on impact of the proposed quarrying operations on the surrounding environment which includes water bodies, Odai etc.,

Agenda No: 441 - 15

(File No.10593/2023)

Existing Multi-Colour Granite Quarry lease over an extent of 6.40.5 Ha (Patta land) at S.F.Nos. 294/1, 294/2, 294/3, 298/1 and 298/2 of Sekkapatti Village, Nilakottai Taluk,


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**Dindigul District, Tamil Nadu by Thiru. Praveen S. Nair - For Terms of Reference.
(SIA/TN/MIN/453792/2023 dated 01.12.2023)**

The proposal was placed for appraisal in the 441st Meeting of SEAC held on 31.01.2024. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:

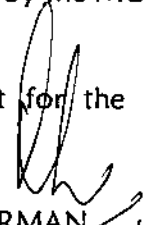
1. The project proponent, **Thiru. Praveen S. Nair** has applied for Terms of Reference for the Existing Multi-Colour Granite Quarry lease over an extent of 6.40.5 Ha (Patta land) at S.F.Nos. 294/1, 294/2, 294/3, 298/1 and 298/2 of Sekkapatti Village, Nilakottai Taluk, Dindigul District, Tamil Nadu.
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. Earlier, the proponent has obtained EC from DEIAA vide Lr.No. SEIAA-TN/F.No.5115/1(a)/EC.No:3488/2016 dated: 29.07.2016. The EC was accorded for the quantity of 7584m³ of multi-colour granite up to the depth of 16m below ground level.
4. Now, based on MoEF&CC O.M dated.24.04.2023, the proponent has submitted the application at SEIAA-TN for re-appraisal of EC granted by DEIAA.
5. From the documents submitted by the proponent, it was ascertained that the proponent has achieved a production quantity of 76.607m³ of multi-color granite as against the approved quantity of 7584m³.
6. Further, the proponent has submitted the approved scheme of mining for the period 2021-22 to 2025-26. The proposed quantity during this scheme period is 37,920m³ of RoM which includes 7584m³ of granite recovery (@20%) & 30,336m³ of granite waste.

Based on the presentation made by the proponent, **SEAC decided to recommend the proposal for Terms of Reference (TOR) with Public Hearing subject to the following additional TORs & ToRs in Annexure of this minutes**, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proponent shall furnish the Certified Compliance Report for the EC


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dated.29.07.2016 as per the MoEF&CC O.M dated.08.06.2022.

2. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
3. The PP shall prepare a conceptual working plan accommodating the remedial actions based on the scientific studies carried out to assess the slope stability of the working benches to be constructed and existing quarry wall indicating the stability status of the quarry wall and slope stability action plan during the time of appraisal while obtaining the EC.
4. The PP shall undertake Hydrogeology study considering nearby existing wells, Aquifers, Ground water & surface water levels etc., within the radius of 1km.
5. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:
 - i. Original pit dimension of the existing quarry
 - ii. Quantity achieved Vs EC Approved Quantity
 - iii. Balance Quantity as per Mineable Reserve calculated.
 - iv. Mined out Depth as on date Vs EC Permitted depth
 - v. Details of illegal/illicit mining carried out, if any
 - vi. Non-compliance/Violation in the quarry during the past working.
 - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
 - viii. Existing condition of Safety zone/benches
 - ix. Details of any penalties levied on the PP for any violation in the quarry operation.
6. The PP shall submit the slope stability action plan by carrying out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall along with a conceptual working plan for maintaining the safety aspects within the lease.
7. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & up to 1km shall be enumerated with details such as dwelling houses with

number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.

8. The study on impact of the proposed quarrying operations on the surrounding environment which includes water bodies, Odai etc.,

Agenda No: 441 - 16

(File No.10600/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 2.39.0 Ha (Patta land) at S.F.Nos. 1/2C, 1/3, 1/4, 1/5 & 16/2A of Sithalapakkam Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by Thiru. G. Ulaganathan - For Terms of Reference. (SIA/TN/MIN/453826/2023 dated 30.11.2023)


The proposal was placed for appraisal in the 441st Meeting of SEAC held on 31.01.2024. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:

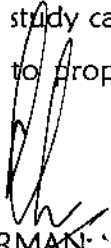
1. The project proponent, **Thiru. G. Ulaganathan** has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry lease over an extent of 2.39.0 Ha (Patta land) at S.F.Nos. 1/2C, 1/3, 1/4, 1/5 & 16/2A of Sithalapakkam Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the approved mining plan, the production for 10 years is 2,79,180m³ of rough stone & 36,316m³ of gravel upto the depth of 37m below ground level.

Based on the presentation made by the proponent, **SEAC decided to recommend the proposal for Terms of Reference (TOR) with Public Hearing subject to the following additional TORs & ToRs in Annexure of this minutes**, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed


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quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.

2. The PP shall undertake a detailed Hydrogeology study considering nearby existing wells, Aquifers, Ground water & surface water levels etc within the radius of 1km.

Agenda No: 441 - 17

(File No.9154/2022)

Proposed Rough Stone & gravel quarry lease over an extent of 1.54.4 Ha at S.F.Nos. 121/2 and 121/3 (Part) of Chennimalai Village, Perundurai Taluk, Erode District, Tamil Nadu by Tmt. R. Maheswari - For Terms of Reference (SIA/TN/MIN/74615/2022, dated 02.04.2022)

The proposal was placed for appraisal in the 441st Meeting of SEAC held on 31.01.2024. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Tmt. R. Maheswari** submitted an application seeking Terms of Reference for the Proposed Rough Stone & gravel quarry lease over an extent of 1.54.4 Ha at S.F.Nos. 121/2 and 121/3 (Part) of Chennimalai Village, Perundurai Taluk, Erode 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. The application was processed and ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9154/SEAC/ToR-1188/2022 dated.06.07.2022.
4. The proponent submitted another application seeking Environmental Clearance under 'B2' category vide SEIAA File No.10290/2023 (PARIVESH Proposal No.SIA/TN/MIN/436752/2023 dated.14.07.2023).
5. Subsequently, the 'B2' proposal was placed in the 413th SEAC meeting held on 05.10.2023. **During appraisal, the PP informed the Committee that the project activity falls under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended furnishing revised 500m Cluster letter dated 30.05.2023 issued by DD(Mines), Erode District and requested the**


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Committee to grant EC considering the project activity as B2 category project.

The SEAC, after detailed discussions accepted the request of the PP and decided to consider the project activity under Category "B2" and directed the PP to submit request letter to the Authority for surrendering the ToR granted vide SEIAA Lr.No. SEIAA-TN/F.No.9154/SEAC/ToR-1188/2022 dated 06.07.2022.

6. Further, the Committee in its 436th SEAC meeting held on 05.10.2023 stated as follows:

The SEAC carefully examined the reply furnished by the PP as no mining operations were carried out and the revised cluster certificate is obtained following the sudden death of PP's husband. Here, the Committee felt that it has to accept the cluster letter revised and issued by competent authorities taking into account the changed circumstances, unless there is a reason to get additional details and hence it is decided to reiterate the recommendations already made in the 413rd meeting of SEAC held on 05.10.2023 and the conditions remain unaltered.

7. Subsequently, the proponent submitted a request to surrender the ToR dated.06.07.2022.

8. The request of the proponent to surrender the ToR dated.06.07.2022 is placed in this 441st SEAC meeting.

The Committee, after detailed deliberations, accepted the ToR surrender request of the proponent and re-iterated its recommendations already made in the 413th & 436th SEAC meetings.

Agenda No: 441-18

(File No: 10560/2023)

Proposed Ordinary Earth quarry over an extent of 1.93.5 Ha at S.F.Nos. 71/2 and 88/1 of Kondalankuppam Village, Vanur Taluk, Viluppuram District, Tamil Nadu by Thiru. S. Vasantharaj - For Terms of Reference.

(SIA/TN/MIN/451203/2023, Dated: 25.11.2023)

The proposal was placed for appraisal in this 441st meeting of SEAC held on 31.01.2024. The details of the project furnished by the proponent are given in the website


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(parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. S. Vasantharaj has applied seeking Terms of Reference for the proposed Ordinary Earth quarry over an extent of 1.93.5 Ha at S.F.Nos. 71/2 and 88/1 of Kondalankuppam Village, Vanur Taluk, Viluppuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. The precise area communication was issued for the period of 2 Years. The mining plan is for 2 Years. The annual peak production shall not exceed 15,512 m³ of Ordinary Earth for the ultimate depth of 2m below ground level.

Based on the presentation made by the project proponent, **SEAC decided to recommend for 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 and additional ToR conditions given in **ANNEXURE-I** are to be included in EIA/EMP Report:

1. The PP shall change the Name of the mineral as "Ordinary Earth" instead of "Red Earth" in the 500m cluster letter issued by Deputy Director mines vide dated 11.10.2023 and also in the approved mine plan wherever it occurs.

Agenda No: 441-19

(File No: 10588/2023)

Proposed Rough Stone and Gravel quarry over an extent of 3.82.0 Ha at S.F.Nos. 212/2A(P), 212/2B(P), 212/2C(P), 213/2A, 213/2B and 213/4 of Kilkolathur Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu by M/s. Aggregate Mines - For Terms of Reference. (SIA/TN/MIN/452472/2023, Dated: 30.11.2023)

The proposal was placed for appraisal in this 441st meeting of SEAC held on 31.01.2024. 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. Aggregate Mines has applied seeking Terms of Reference for the proposed Rough Stone and Gravel quarry over an extent of


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3.82.0 Ha at S.F.Nos. 212/2A(P), 212/2B(P), 212/2C(P), 213/2A, 213/2B and 213/4 of Kilkolathur Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. The precise area communication was issued for the period of 10 Years. The mining plan is for 5 Years. The annual peak production shall not exceed 90,950 m³ of Rough Stone and 40,020 m³ of Gravel for the ultimate depth of 22m below ground level.

Based on the presentation made by the project proponent, **SEAC decided to recommend for 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 and additional ToR conditions given in **ANNEXURE-I** are to be included in EIA/EMP Report:

1. The PP shall obtain NOC from TANGEDCO for the HT line located at a distance of 175m, 240m, 415m from the boundary of the quarry site in order to carry out said mining activity.
2. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
3. The Plan and Sections of the Development & Production Plan prepared for the proposed quarry in the Mining Plan shall be changed accordingly to satisfy the legal provisions on 'Bench Geometry' as stipulated in the MMR 1961.
4. The PP shall furnish the authentic details on the tank existing at a distance of 175 m during the EIA appraisal.

Agenda No: 441-20

(File No: 10595/2023)


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Proposed Rough Stone and Gravel quarry over an extent of 4.99.0 Ha at S.F.Nos. 146/9(Part), 146/10(Part), 152/1(Part), 153/1(Part), 154/1(Part) and 155/1(Part) of Udhayathur Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu by Thiru. C. Robin Raj - For Terms of Reference.

(SIA/TN/MIN/453719/2023, Dated: 29.11.2023)

The proposal was placed for appraisal in this 441st meeting of SEAC held on 31.01.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

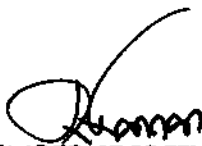
1. The Project Proponent, Thiru. C. Robin Raj has applied seeking Terms of Reference for the proposed Rough Stone and Gravel quarry over an extent of 4.99.0 Ha at S.F.Nos. 146/9(Part), 146/10(Part), 152/1(Part), 153/1(Part), 154/1(Part) and 155/1(Part) of Udhayathur Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. The precise area communication was issued for the period of 5 Years. The mining plan is for 5 Years. The annual peak production shall not exceed 1,43,640 m³ of Rough Stone (2nd & 3rd year) and 26,842 m³ of Gravel (1st year) for the ultimate depth of 47m below ground level.

Based on the presentation made by the project proponent, **SEAC decided to recommend for 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 and additional ToR conditions given in **ANNEXURE-I** are to be included in EIA/EMP Report:

1. The PP shall leave safety distance (buffer area) in the wind mill direction. The PP shall show the development of greenbelt in the buffer area while presenting the EIA.

Agenda No: 441-21

(File No: 10609/2023)


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Proposed Rough Stone quarry over an extent of 4.74.90 Ha at S.F.Nos. 87/1B1B and 87/1B2B of Kothapetta Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. A.M. Quality Stone - For Terms of Reference.

(SIA/TN/MIN/456285/2023, Dated: 21.12.2023)

The proposal was placed for appraisal in this 441st meeting of SEAC held on 31.01.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

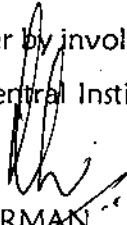
1. The Project Proponent, M/s. A.M. Quality Stone has applied seeking Terms of Reference for the proposed Rough Stone quarry over an extent of 4.74.90 Ha at S.F.Nos. 87/1B1B and 87/1B2B of Kothapetta Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. The precise area communication was issued for the period of 5 Years. The mining plan is for 5 Years. The annual peak production shall not exceed 1,33,980 m³ of Rough Stone for the ultimate depth of 45m above ground level.
4. Earlier, EC was accorded to the ex-proponent Tmt. Qamrunnisa vide Lr. No. SEIAA-TN/F.No.3215/EC/1(a)/2645/2015 dated: 05.01.2016 for the Proposed Rough Stone quarry over an extent of 4.75.0 Ha at S.F.Nos. 87/1B1(P) & 87/1B2(P) of Kothapetta Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu, for the quantity of 52620 cu.m of Rough Stone upto a depth of 10m.

Based on the presentation made by the project proponent, **SEAC decided to recommend for 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 and additional ToR conditions given in **ANNEXURE-I** are to be included in EIA/EMP Report:

1. The proponent shall study the impact of carrying out blasting on the structures located within 500m from the cluster by carrying out Blast-Induced Ground vibration study in the any of the operating mines in the same cluster by involving any one of the reputed scientific / academic institutions - CSIR-Central Institute


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- of Mining and Fuel Research (CIMFR), Dhanbad; NIRM, Bengaluru; IIT(ISM), Dhanbad; Anna University, Chennai; NITK, Surathkal and IIT, Madras.
2. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
 3. The PP shall obtain Certified Compliance Report (CCR) from Integrated Regional Office, MoEF&CC, Chennai, for the earlier Environmental Clearance, if applicable.

Agenda No: 441-22

(File No: 7749/2020)

Proposed Gravel quarry over an extent of 1.88.0 Ha at S.F.Nos. 724/1A1, 724/1A2, 724/1B in Minnathur Village & S.F.No. 609/1B in Themmavur Village of Kulathur Taluk, Pudukottai District, Tamil Nadu by Thiru. S. Stanislaus - For surrender and withdrawal of Terms of Reference issued earlier. (SIA/TN/MIN/67274/2021, Dated: 04.09.2021)

The proposal was placed for appraisal in this 441st meeting of SEAC held on 31.01.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. Earlier, the project proponent Thiru. S. Stanislaus has obtained Terms of Reference vide Lr No.SEIAA-TN/F.No.7749/SEAC/ToR-1143/2022 Dated: 10.05.2022 for the proposed Gravel quarry lease area over an extent of 1.88.0 Ha at S.F.Nos. 724/1A1, 724/1A2, 724/1B in Minnathur Village & S.F.No. 609/1B in Themmavur Village of Kulathur Taluk, Pudukottai District, Tamil Nadu.
2. Now, the project proponent Thiru. S. Stanislaus vide letter dated 26.12.2023 has requested for surrender of ToR obtained vide Lr No.SEIAA-TN/F.No.7749/


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SEAC/ToR-1143/2022 Dated: 10.05.2022. The PP decided to surrender ToR stating as follows:

"We have obtained revised 500m letter from the Assistant Director, Department of Geology and Mining, Pudukkottai District vide letter Rc.No.54/2019 (G&M), dated 31.01.2023, furnished the details of quarries (Existing / Abandoned / Proposed / Future proposed quarries) situated within 500m radius from the boundary of the proposed quarry site.

As per the above said 500m radius letter, the total extent of the all quarries is about 1.88.0 ha only which is not exceeding 5.00.0 hectare. Hence this proposal may kindly be considered for Direct Environmental Clearance as the proposal comes under B2 category (<5ha)."

3. Further, the PP has requested for withdrawal of EC proposal applied vide Online Proposal No. SIA/TN/MIN/168399/2020 dated: 17.08.2020 and ToR proposal applied vide Online Proposal No. SIA/TN/MIN/67274/2021 dated: 04.09.2021.
4. The subject was placed in the 687th authority meeting held on 09.01.2024. After detailed discussions, the authority decided to forward the said application seeking surrender of ToR to SEAC for remarks and recommendations.

In view of the revised 500m radius cluster letter furnished by the project proponent, the Committee decided to accept the proponent's request for withdrawal and surrender of the earlier issued ToR dated: 10.05.2022 and SEIAA may accordingly take necessary action for withdrawal as per the rules laid down by MoEF&CC.

Agenda No: 441-23

(File No: 10105/2023)

Proposed Black Granite quarry lease area over an extent of 1.42.0 Ha at S.F.Nos. 146/3A, 147/1A & 147/2A of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Tmt. E. Edhayeswari - For Environmental Clearance.

(SIA/TN/MIN/431815/2023, Dated: 01.06.2023)

The proposal was placed for appraisal in this 441st meeting of SEAC held on 31.01.2024. 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, Tmt. E. Edhayeswari has applied for Environmental Clearance for the Proposed Black Granite quarry lease area over an extent of 1.42.0 Ha at S.F.Nos. 146/3A, 147/1A & 147/2A of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, PP have submitted application for B2 Category Environmental Clearance (File No. 4836/2016 and Online Proposal No. SIA/TN/MIN/34491/2015, Dated: 14.12.2015) which was transferred to DEIAA.
4. PP have previously submitted 2 applications for Terms of Reference and requested for withdrawal of the both proposals vide Online Proposal No. SIA/TN/MIN/27220/2018, Dated: 08.09.2017 as the proposal doesn't attract violation & applicable for B2 Category EC and SIA/TN/MIN/23510/2018, Dated: 07.04.2018 as the proposal was filed under Consultant ID.
5. Noganur Reserve Forest is located at a distance of 2.66 km, North West from the mine lease area. Cauvery North Wildlife Sanctuary is located at a distance of 3.20 km, South West from the mine lease area. Cauvery South Wildlife Sanctuary is located at a distance of 8.90 km, South West from the mine lease area.
6. DFO letter vide Na.Ka.No. 2687/2023/L, Dated: 31.03.2023
7. Earlier, the proposal was placed for appraisal in the 429th meeting of SEAC held on 13.12.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 3000 m³ ROM which includes 300 m³ of Black Granite Recovery (@25%) & 2700 m³ of Granite Waste (@75%) by maintaining the ultimate depth of mining upto 21m and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the specific conditions stated therein.
8. Subsequently, the subject was placed in the 686th authority meeting held on 08.01.2024. The authority noted that the subject was appraised in the 429th

SEAC meeting held on 13.12.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

After detailed discussion, the authority noted as follows:

- i. The percentage of Recoverable Reserves i.e. Black Granite Recovery is wrongly mentioned as 20% instead of 10% in the approved 2nd Scheme of Mine Plan vide Rc. No.1260/MM4/2023, dated: 24.02.2023 furnished by the PP. Hence, the same has to be corrected in the Mine Plan as well as in the PPT.
- ii. The percentage of Black Granite Recovery is mentioned as 25% instead of 10% and Granite Waste mentioned as 75% instead of 90% in the Minutes of 429th SEAC meeting held on 13.12.2023.

In view of the above, the Authority decided to refer back the proposal to SEAC for remarks / recommendations on the above-mentioned points.

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

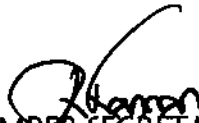
File No	10105 / 2023	Category	B2 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Tmt. E. Edhayeswari, W/o. Elango. R., No.138, KG Street, Coimbatore District - 640 001.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Black Granite
3	S.F Nos. of the quarry site with area break-up	:	146/3A, 147/1A & 147/2A
4	Village in which situated	:	Karandapalli
5	Taluk in which situated	:	Denkanikottai
6	District in which situated	:	Krishnagiri
7	Extent of quarry (in ha.)	:	1.42.0 Ha

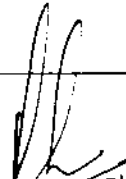

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8	Latitude & Longitude of all corners of the quarry site	: 12°28'34.36"N to 12°28'38.65"N 77°43'13.15"E to 77°43'20.54"E	
9	Topo Sheet No.	: 57-H/11	
10	Type of mining	: Opencast Mechanized Mining	
11	Life of Project	: 14 years	
	Lease Period	: 20 years	
	Mining Plan Period	: 5 years	
12	Mining Plan Details	: As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	Black Granite	Black Granite
		1,78,736 m ³ ROM which includes 17,874 m ³ of Black Granite Recovery (@10%) & 1,60,862 m ³ of Granite Waste (@90%)	-
	Minalable Resources m ³ (RoM)	Black Granite	Black Granite
		42,016 m ³ ROM which includes 4202 m ³ of Black Granite Recovery (@10%) & 37,814 m ³ of Granite Waste (@90%)	-
	Annual Peak Production in m ³	Black Granite	Black Granite
		3000 m ³ ROM which includes 300 m ³ of Black	-


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		Granite Recovery (@10%) & 2700 m ³ of Granite Waste (@90%)	
	Ultimate Depth in meters	: 21m	-
13	Depth of water table	: 57m-62m below ground level	
14	Man Power requirement per day:	: 31 Nos.	
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	: 1.0 KLD 0.2 KLD - 0.5 KLD 0.3 KLD	
16	Power requirement	: 24000 Liters of HSD	
17	Precise area communication approved by Principal Secretary to Government, Industries (MME - 2) Department	: G.O. (3D) No.39, Industries (MME - 2) Department, Dated: 01.03.2011	
18	2 nd Scheme of Mining Plan approved by Commissioner, Department of G&M	: Rc.No.1260/MM4/2023, dated: 24.02.2023	
19	Department of G&M, Deputy Director 500m Cluster Letter	: Roc.No.986/2021/Mines dated: 04.05.2023	
20	VAO Certificate Regarding Structures within 300m Radius	: Letter dated 08.03.2023	
21	Project Cost (excluding EMP cost)	: Rs. 1,54,95,000/-	
22	EC Recommendation	: Validity	30 years subject to the following upper limits. Black Granite

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		Max Total : RoM in m ³	12,000 m ³ ROM which includes 1200 m ³ of Black Granite Recovery (@10%) & 10800 m ³ of Granite Waste (@90%)
		Annual Max : RoM in m ³	3000 m ³ ROM which includes 300 m ³ of Black Granite Recovery (@10%) & 2700 m ³ of Granite Waste (@90%)
		Max Depth in : mtrs	21m
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 28,21,400/- Recurring Cost – Rs. 11,25,440/-
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-

The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEIAA.

SEIAA Query	Reply
The percentage of Recoverable Reserves i.e. Black Granite Recovery is wrongly mentioned as 20% instead of 10% in the approved 2 nd Scheme of Mine Plan vide Rc. No.1260/MM4/2023, dated: 24.02.2023 furnished by the PP. Hence, the same has to be corrected in the Mine Plan as well as in the PPT.	We wish to bring your kind notice that the scheme of mining plan approval letter detailing the year wise production is approved for 10% recovery of Black Granite and it is noticed and typo error in the header of the year wise table. Kindly request your good office to consider the approval of the quantity in the letter for 10% recovery of Black Granite.

The percentage of Black Granite Recovery is mentioned as 25% instead of 10% and Granite Waste mentioned as 75% instead of 90% in the Minutes of 429 th SEAC meeting held on 13.12.2023.	We wish to bring your kind notice that it was erroneously typed as 25% recovery instead of the actual 10% recovery in the year wise Production table and herewith request your good office to consider our apology for the typo error and request to recommend and process our application for the actual fact of 10% recovery.
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of **Environmental Clearance for the annual peak production capacity not exceeding 3000 m³ ROM which includes 300 m³ of Black Granite Recovery (@10%) & 2700 m³ of Granite Waste (@90%) by maintaining the ultimate depth of mining up to 21m and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the specific conditions stated therein:**

- 1) The PP shall ensure the safety provisions as stipulated in the DGMS Circular No:02, dated. 29.11.2019 while using the Diamond Wire Saw machines in the proposed quarry operation.
- 2) The PP shall adopt only non-explosive technique (Rock Breaking Compounds) for the fracturing of granite blocks ensuring the eco-friendly mining operation in the proposed quarry.
- 3) To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.


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- 4) The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.

Agenda No: 441-24.

File no: 10645/2024

Proposed Dimensional stone over an Extent of 1.71.0Ha (Government Mandhavaeli Land) at S.F.No.70/1 (P) of Agalur Village, Gingee Taluk, Viluppuram District by Thiru. J. Ajeeth Prasath Jain - For Environmental Clearance.

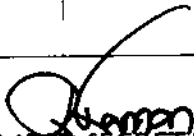
(SIA/TN/MIN/458381/2024, dt: 11/01/2024).

The proposal was placed for appraisal in 441st meeting of SEAC held on 31.01.2024. 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. J. Ajeeth Prasath Jain has applied for Environmental Clearance for the proposed Dimensional Stone over an Extent of 1.71.0 Ha S.F.No.70/1 (P) of Agalur Village, Gingee Taluk, Viluppuram District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 3 Months. The approved mining plan is for the period of 3 Months & the production should not exceed 396 m³ of **Dimensional Stone & 95 m³ Topsoil**. The depth of mining is 12m AGL.

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	Thiru. J. Ajeeth Prasath Jain Vice President, : Sri Bhagavan Mahaveer Trust, No.25/61, Swami Bakthan Street.


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		Ramalingapuram, Chennai – 600012.
2.	Type of quarrying Mineral	: Dimensional Stone
3.	S.F Nos. of the quarry site with area break-up	: 70/1 (P)
4.	Village in which situated	: Agalur
5.	Taluk in which situated	: Gingee
6.	District in which situated	: Viluppuram
7.	Extent of quarry (in ha.)	: 1.71.0Ha
8.	Latitude & Longitude of all corners of the quarry site	: 12°19'19.4145"N to 12°19'18.8366"N 79°28'54.1894"E to 79°28'53.5790"E
9.	Topo Sheet No.	: 57P/7
10.	Type of mining	: Opencast Semi-Mechanized of Mining
11.	Life of Project	: 3 Months as per approved Mining Plan
	Lease Period	: 3 Months as per precise area communication.
	Mining Plan Period	: 3 Months as per approved Mining Plan
12.	Mining Plan Details	: As per approved Mining Plan
	Geological Resources m ³ (RoM)	Dimensional stone in m ³
		396m ³
	Mineable Resources m ³ (RoM)	Topsoil in m ³
		138 m ³
	Annual Peak Production in m ³	Dimensional stone in m ³
		396m ³
13.	Depth of water table	Topsoil in m ³
		95m ³
14.	Man Power requirement per day:	12.0m
		64m
14.	Man Power requirement per day:	: 14 Nos

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15.	Water requirement: 1. Domestic & Drinking water 2. Green belt 3. Dust suppression	: : : :	1.70 KLD 0.70 KLD 0.5 KLD 0.5 KLD						
16.	Power requirement		TNEB						
17.	Precise area communication approved by Natural Resources (MMB.2) Department, Secretariat, Chennai	:	Lr.No.1664/MMB.2/2023-1, dt: 10.11.2023						
18.	Mining Plan approved by Commissioner, Department of G&M.	:	Rc.No.6865/MM4/2023, dt: 16.12.2023						
19.	500m Cluster Letter by Assistant Director, Department of G&M.		Rc.No.B/G&M/64/2023, dt:21.12.2023						
20.	VAO Certificate regarding Structures within 300m Radius		Dt: 21.12.2023						
21.	DFO letter for proximity details of Reserve Forest and protected areas.		Dt: 03.01.2024.						
22.	Project Cost (excluding EMP cost)	:	Rs.12.776 Lakhs.						
23.	EC Recommendation	:	As per approved mining plan						
			<table><tr><td></td><td>Dimensional Stone in m³</td><td>Topsoil in m³</td></tr><tr><td>Max Total RoM in m³</td><td>396m³</td><td>95m³</td></tr></table>		Dimensional Stone in m ³	Topsoil in m ³	Max Total RoM in m ³	396m ³	95m ³
	Dimensional Stone in m ³	Topsoil in m ³							
Max Total RoM in m ³	396m ³	95m ³							

		: Annual Max RoM in m ³	396m ³	95m ³
		: Max Depth in mtrs	12.0m	
24.	EMP cost (in Rs. Lakh).	: Rs.23500/-		
25.	CER cost (in Rs. Lakh).	: Rs.3 Lakhs.		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production not exceeding 396 m³ of **Dimensional Stone & 95 m³ Topsoil** for the ultimate depth of mining upto 12m AGL during 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. During the meeting, the PP has requested for extension of mining plan period for 18 Months instead of 3 Months period stating that at every stage we need to perform certain rituals and also furnished request letter Dt: 01.02.2024. Hence, the PP is directed to obtain revised mining plan approval for a period of 18 months before obtaining CTO from TNPCB for the production not exceeding 396 m³ of **Dimensional Stone & 95 m³ Topsoil** for the ultimate depth of mining upto 12m AGL.
2. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty Years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
3. The project proponent shall not carry out blasting as committed.
4. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.


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5. The PP shall ensure the safety provisions as stipulated in the DGMS Circular No:02, dated. 29.11.2019 while using the Diamond Wire Saw machines in the proposed quarry operation.
6. The PP shall adopt only non-explosive technique (Rock Breaking Compounds) for the fracturing of granite blocks ensuring the eco-friendly mining operation in the proposed quarry.
7. To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.
8. The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.
9. As accepted by the Project Proponent the CER cost of **Rs. 3 Lakhs** and the amount shall be spent for the Panchayat Union Primary School, Agalur Village, Gingee Taluk, Viluppuram District.


Agenda No:441-25

File No: 4166/2023

Proposal seeking grant of Extension of validity of Environmental Clearance for the existing Rough Stone & Gravel quarry over an extent of 0.99.0 Ha at S.F. No288/3, Veppilai, Omalur, Salem District – for Extension of validity of Environmental Clearance. (SIA/TN/MIN/307647/2023 Dt: 23.12.2023.)

The proposal was placed for appraisal in 441st meeting of SEAC held on 31.01.2024. 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 authority noted the Project proponent (PP) vide Lr. Dt: 29.12.2023 has requested for Extension of validity of Environmental Clearance as per MoEF&CC O.M Dt: 13.12.2023 and submitted Form-6 vide online proposal No. SIA/TN/MIN/307647/2023 Dt: 23.12.2023.
2. The validity of EC obtained vide Lr.No. SEIAA-TN/F.No.4166/EC//1(a)/2826/2015 Dt:08.02.2016 for production of 35535 m³ of Rough Stone and depth of mining upto 25m valid for 5 Years which is Coterminous with the mine lease period or limited to a maximum period of 5 Years from the date of issue whichever is earlier.
3. The District collector, Salem has executed lease on 04.10.2019.
4. AD, Dept. Geology & Mining, Salem Vide Lr. Dt: 21.12.2023 has informed that permit was issued till 21.12.2023 for 12690 m³ of Rough Stone.
5. In this connection, the subject was placed in the 687th authority meeting held on 09.01.2024 and the Authority after detailed discussion decided to forward this proposal to SEAC for appraisal.

Based on the presentation and documents furnished by the project proponent, SEAC noted that the validity of EC expired on 07.02.2022 including the Covid -19 period as per MoEF&CC notification Dt:18.01.2021 and also does not fall under the ambit of MoEF&CC vide O.M Dt: 13.12.2023 as clarified that the applicability of the (MoEF&CC) vide notification no. S.O. No. 1807(E) dated 12/04/2022. Further, SEAC noted that the project proponent has not filed application seeking extension of validity to the SEIAA-TN within the validity period of previous EC as per EIA Notification, 2006.

In the above circumstances, SEAC decided not to recommend for the request made by PP seeking extension of validity of previous EC. Also, PP is directed to file new application seeking EC accordingly as per EIA Notification, 2006 as amended.


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ANNEXURE-I

SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED WITHIN 1 KM FROM THE RESERVE FORESTS

1. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two to three rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
2. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
3. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
4. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
5. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
6. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
7. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
8. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.

9. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
10. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
11. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
12. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more or areas with a high degree of erosion on forestland.
13. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco- sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
14. The PP shall not use plastic carry bags within the quarry area.
15. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.
16. The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.


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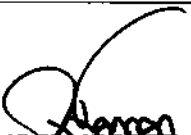
GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

1. The proponent shall mandatorily appoint the statutory competent persons and commence the quarry operations within the purview of Mines Act 1952.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short-Term Permit (STP), Query license or any other name.
5. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
6. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
7. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.


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8. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.


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14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
17. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
18. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
19. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
20. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
21. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory

obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

22. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

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


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ROUGH STONE/JELLY/BLUE METAL QUARRY

- 1) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 2) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 3) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 4) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall install the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
- 8) The Proponent shall submit a conceptual 'Slope Stability Action Plan' incorporating the benches & accessible haul road approved by the concerned

AD (Mines) for the proposed quarry to the DEE/TNPCB at the time of obtaining the CTO.

- 9) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are undergoing the initial/periodical medical examination in the DGMS approved OHS Clinics/Hospitals as per the DGMS Circular No. 01 of 2011 before they are engaged in mining activities.
- 10) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are provided with adequate PPEs before engaged in mining operations.
- 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 12) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 16) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 17) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.


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- 18) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 19) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 20) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
- 21) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 22) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.

- 24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 25) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 26) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 27) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.
- 28) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent


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- shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 37) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole

and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

40) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.


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

Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
1.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.
2.	Special precautions are to be taken during blasting within danger zone such as posting guards, etc.	Blast design parameters should be mentioned in mining plan/scheme. and may be reviewed by a competent mining engineer.
3.	Blast design parameters should be mentioned in mining plan/scheme.	MCPD and total charge should be fixed such that it should not exceed 1.3 kg and 26.50 kg respectively.
4.	The recommendations of scientific organisation need to be incorporated in the mining plan/scheme before its approval.	Fresh scientific study may be conducted if mine management wants to increase the MCPD and total explosive charge above the quantity of 1.30 kg and 26.50 kg respectively. Continuous monitoring using seismograph should also be done in such cases by the mine management.
5.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.
6.	Training of the blasting crew on controlled blasting practices before engaged in operation.	Training of the blasting crew on controlled blasting practices before engaged in operation.


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7.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, PESO or SPCB.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, SPCB. Report of recorded ground vibration need to be added in monthly report.
8.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.
9.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.
10.	Electronic (or) Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.	Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.
11.	Max. number of holes in a round: 30.	Max. number of holes in a round: 40 to 60.


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

1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:
 - (i) Original pit dimension
 - (ii) Quantity achieved Vs EC Approved Quantity
 - (iii) Balance Quantity as per Mineable Reserve calculated.
 - (iv) Mined out Depth as on date Vs EC Permitted depth
 - (v) Details of illegal/illicit mining
 - (vi) Violation in the quarry during the past working.
 - (vii) Quantity of material mined out outside the mine lease area
 - (viii) Condition of Safety zone/benches
 - (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m.
2. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.

7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.
8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?


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14. Quantity of minerals mined out.

- Highest production achieved in any one year
- Detail of approved depth of mining.
- Actual depth of the mining achieved earlier.
- Name of the person already mined in that leases area.
- If EC and CTO already obtained, the copy of the same shall be submitted.
- Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.

15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).

16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,


17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.

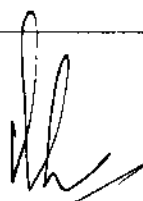
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.

19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.


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

- and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
 28. Impact on local transport infrastructure due to the Project should be indicated.
 29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
 30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
 31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
 32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
 33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner


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


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42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.


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Annexure II

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

1. Statutory Compliance:

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


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9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

2. Air quality monitoring and preservation:

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.
4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.
6. Wet jet shall be provided for grinding and stone cutting.
7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.
8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly

disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.

9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
11. For indoor air quality the ventilation provisions as per National Building Code of India.

3. Water Quality Monitoring and Preservation:

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

specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

6. At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
12. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement shall be provided. In areas where ground water recharging is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
13. All recharges should be limited to shallow aquifer.
14. No ground water shall be used during construction phase of the project.

15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
16. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).
17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed into municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be taken to mitigate the odor problem from STP.
21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

4. Noise Monitoring and Prevention:

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

5. Energy Conservation Measures:

1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
4. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
5. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.
7. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

6. Waste Management:

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
2. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction

material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.

8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
9. Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.
10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

7. Green Cover:

1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
3. Where the trees need to be cut with prior permission from the concerned local authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be

stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

5. A wide range of indigenous plant species should be planted as given in the Appendix-I, in consultation with the Government Forest/Horticulture Departments and State Agriculture University.

8. Transport:

1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
2. Vehicles hired to bring construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of


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components of the plan which involve the participation of these departments.

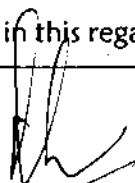
9. Human Health Issues:

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

10. Corporate Environment Responsibility:

1. The PP shall complete the CER activities, as committed, before obtaining CTE.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard


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shall be submitted to the MoEF&CC as a part of Half Yearly Compliance Report (HYCR).

3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Half Yearly Compliance Report (HYCR).

11. Miscellaneous:

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit Half Yearly Compliance Reports (HYCR) on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as

prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

6. The project proponent shall inform the Authority (SEIAA) of the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also during their presentation to the State Expert Appraisal Committee.
9. No further expansion or modifications to the plant shall be carried out without prior approval of the Authority (SEIAA).
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Authority (SEIAA) may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.
13. The Regional Office of the MoEF&CC Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.


Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விலவம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சாடி. ஆனைக்குன்றிமணி
3	<i>Albizia lebbeck</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathu	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	கட்டிமர
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon swietenia</i>	Purasamaram	பரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Marjallavu	கோங்கு. மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவுளி
18	<i>Creteva adansonii</i>	Mavalingum	மாலைங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உசா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சீரு உசா
21	<i>Diospyro ebenum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம். ஆயில்
27	<i>Lanea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விலா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	அரம்பா. பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வேளளை நுணா
38	<i>Phoenix sylvestre</i>	Eachai	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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


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

சுரங்கம்

வழக்கப்பட்டுள்ளது. - தேதிப்பிட்டு காண்பதில் அதுமே _____ தேதி வரை செலவழிக்கத்தக்க உண்டா?

பகைப் பகுதி வளர்ச்சி வேம்பட்டிக்களை அங்கத்திட்டம்	குலாதிபிகள் எல்லையைச் சுற்றி வேம்பு அமைக்க வேண்டும் எல்லாப்பாளையம் ஆறும் தூய்மைப்படுத்திவைத்து மீட்டர்க்கு மிகாமல் இருக்க வேண்டும் கன்றில் மாக ஏற்படாதவாறு அங்கப் பணிகளை மேற்கொள்ள வேண்டும் வாசகர்கள் செல்லும் பாதையில் மாக ஏற்படாத அனவிறகு தண்ணீரை முறையாக தண்ணீர் வாரிகளின் மூலமாக அல்லப்போது தெளிக்க வேண்டும் இறைச்சல் அளவையும் தூசி மாகபாடாட்டும் குறைப்பதற்காக குலாதிபிகள் எல்லையை சுற்றி அடத்திபாள பகைப் பகுதியை ஏற்படுத்த வேண்டும்
அங்கத்திலுள்ள வெள எவர்களும்கொழுது நிலத்திலுள்ள ஏற்படாதவாறு மற்றும் கற்கள் பறக்காதவாறுப் பாதுகாப்பு நடவடிக்கைகளை உள்நிப்பாக செயல்படுத்தப்பட வேண்டும்	
அங்கத்திலுள்ள இருந்து ஏற்படும் இறைச்சல் அளவு 85 டெசிபெல் (85A) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த நடவடிக்கைகளை மேற்கொள்ள வேண்டும்	
அங்கம் சட்ட விதிகள் 1988 கீழ் அங்கத்திலுள்ள உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதற்கு கவனத்தோடுள்ள வழிப்பாடு வசதிகளை செய்து தர வேண்டும்	
மிகாமல் அல்லது பதின்மத்து வழியாக வாசகர்கள் செல்லும் ஏளையாக, செல்வாக்கு தாது பாதிக்க வேண்டும் அங்கப்பாளிகளால் அருகில் உள்ள விவசாயப் பணிகள் மற்றும் தீர்மானங்கள் பாதிக்கப்படக் கூடாது.	
தீர்மானங்கள் பாதிக்கப்படாமல் இருப்பதற்கு உறுதி செய்யும் வாகனம் நிலத்தாக தீர்ந் தாத்தினை தொடர்த்து களைகளில் வேண்டும்.	
அங்கத்திலிருந்து வளம் பொதுக்களை எடுத்துச் செல்லு விராம மக்களுக்கு எந்தத் தீர்மானத்தையும் ஏற்படுத்தாதவாறு பாதுகாப்பாகும் மற்றும் கன்றுதழும் பாதிக்கவாத வளர்ணம் வாசகர்கள் இயக்க வேண்டும்	
அங்கப்பாளிகள் முடிக்கப்படாட்டவாள் அங்கம் மூலம் திட்டத்தில் உள்ளவாறு அங்கத்தினர் மூல வேண்டும்	
அங்கம் நடவடிக்கைகளை முடித்தபின்னர் அங்கம் பகுதி மற்றும் அங்கம் நடவடிக்கைகளால் இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுபாட்டுமாதம் செய்து தாவரங்கள் விவங்குகளை ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பாசனப்பகுதியை உதவக்க வேண்டும்	
முறையான திட்டங்களை அறிவு பரிசீலனை http://www.mca.gov.in ன்க்கு இணைப்பதற்குப் பங்குபெட்டும் மேலும் எந்தவித எந்துதழும் எந்தப் பங்குக்குக் கொண்டுவரில் உள்ள எந்துத்தழம் மற்றும் வள அமைச்சத்தின் முடிவின்மீது வட்டா அருவமை: 044 - 2822125 (அல்லது) தயார்நாடு மாக கட்டுப்பாடு வாரியத்தின் மாவட்ட எந்துத்தழம் பொறிபாளரை கருங்கடும்	

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