

State Expert Appraisal Committee (SEAC)

Minutes of 409th meeting of the State Expert Appraisal Committee (SEAC) held on 21.09.2023 (Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building & Construction projects, Mining projects and Synthetic Organic Chemical Industries projects.

Confirmation of Earlier Minutes

The minutes of the 408th SEAC meeting held on 08.09.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 409 - 01

(File No: 10270/2023)

Proposed Multi Colour Granite quarry lease over an extent of 3.54.5 Ha at SF. Nos. 544/1H2 & 549/2A1 of Gudalur Village, Kulithalai Taluk, Karur District Tamil Nadu by M/s. Himalaya Enterprises - For Terms of Reference.

(SIA/TN/MIN/430580/2023, Dated: 24.05.2023)

The proposal was placed for appraisal in this 409th SEAC meeting held on 21.09.2023. 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. Himalaya Enterprises has applied for Terms of Reference for the Proposed Multi Colour Granite quarry lease over an extent of 3.54.5 Ha at SF.Nos. 544/1H2 & 549/2A1 of Gudalur Village, Kulithalai Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier EC obtained from DEIAA vide Lr.No.DEIAA-DIA/TN/MIN/7256/2017-KKR Ec.No.61/2017/Mines, Dated: 02.08.2017.

Now, the proposal was placed in the 409th SEAC meeting held on 21.09.2023. Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs as per the


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Annexure I of this minute, 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 Certified Compliance Report from IRO, MoEF&CC for the earlier Environmental clearance obtained from DEIAA and submit the same along with EIA Report.
2. The proponent shall submit the details on the excavation and production volume along with dispatch of granite block with valid permits issued by AD/Mines for the scheduled period of mining, along with EIA Report.

Agenda No: 409 - 02

(File No: 10305/2023)

Existing Steel Plant at SF.Nos. 265/2E of Nallur Village, Paramathi Velur Taluk, Namakkal District, Tamil Nadu by M/s. Ran India Steels Private Limited - For Terms of Reference. (SIA/TN/IND1/438197/2023, Dated: 26.07.2023)

The proposal was placed for appraisal in this 409th SEAC meeting held on 21.09.2023. 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. Ran India Steels Private Limited has applied for Terms of Reference for the existing Steel Plant at SF.Nos. 265/2E of Nallur Village, Paramathi Velur Taluk, Namakkal District, Tamil Nadu.
2. The project/activity is covered under Schedule 3(a) "Steel Plant" of the Schedule to the EIA Notification, 2006.
3. The proponent had obtained CTO from TNPCB vide consent order no. 1806212436800 under Air Act and Consent Order No. 1806112436800 under Water Act Dated: 02.04.2018 for the Manufacturing of M.S CTD bars, M.S. Plain rounds, M.S. Angles, M.S. Flats & M.S. Channels with production quantity of 4500 Tons/Month and with the point source emissions of Re-heating Furnace (Wet scrubber with stack of 21m height) and DG set of 125 KVA (5.0 m stack height) with validity up to 31.03.2028.
4. As per the MoEF&CC Notification S.O. 3250 (E) Dated: 20.07.2022.


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"All the standalone re-rolling units or cold rolling units, which are in existence and in operation as on the date of this notification, with valid Consent to Establish (CTE) and Consent to Operate (CTO) from the concerned state pollution control board or the union territory pollution control committee, as the case may be, shall apply online for grant of Terms of Reference as per item 3(a) of the said notification and shall be exempted from the requirement of public consultation:

Provided that the application for the grant of ToR shall be made within a period of one year from the date of this notification."


Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) without Public Hearing, subject to the following TORs, in addition to the standard terms of reference for EIA study for Metallurgical Industries (Ferrous & Non-Ferrous) and details issued by the MOEF & CC (Annexure III) to be included in EIA/EMP Report:

1. The PP shall furnish Green Belt plan with minimum 33% Green cover along with EIA Report.
2. The proponent shall submit report of analysis with respect to air emission obtained from TNPCB along with EIA Report.
3. DFO letter stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
4. The PP shall furnish the details of arrangement made for permanent water supply from Salem Corporation/local panchayat.
5. Efficiency study/report of the existing furnace through reputed institution.
6. PP shall conduct an energy efficiency study of the existent factory through accredited BEE consultant and submit the same along with an action plan to implement the suggestions.
7. The PP shall discuss the best available technology available in this field and action plan for implementing the same.
8. The proponent shall explore the possibilities of utilising alternative fuels like briquettes, LNG etc., and shall discuss in the EIA report.


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9. The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 75% renewable energy to meet the energy requirement.
10. The PP shall furnish the road map for achieving 100% green energy.
11. The PP shall furnish the action plan for the implementing the CER activities as committed.
12. The PP shall study in detail various operational measures to reduce the specific energy consumption in re-heating furnaces.
13. The proponent shall furnish details on the idling period provided.
14. The proponent shall furnish details on measures adopted for better and efficient operation of melting & charging.
15. The proponent shall furnish details on the control measures adopted during heat finishing and tapping.
16. The proponent shall study in detail about operational control measures to Minimize and control the refractory wall wearing.
17. The proponent shall explore the possibilities of utilizing state of the art technology with best global practice.
18. The proponent shall explore the possibilities of utilizing the treated wastewater instead of fresh water.
19. The proponent must increase the Solar and Wind Energy sources and must explore the possibilities of achieving Net Zero energy consumption.
20. The proponent shall submit the copy of the consent to operate and the latest renewal consent order obtained from the TNPCB.
21. The proponent shall submit the compliance report from TNPCB for the conditions imposed in the consent order issued by the TNPCB.
22. The Environmental pollution control measures taken to deal with Air pollution, effluent generation and slag generation should be discussed in detail.
23. The project proponent has to strengthen the air pollution control measures of the existing system and furnish an adequacy report on the revamped system from a reputed institution like Anna University or IIT, Madras along with the EIA report. The revamping of the existing air pollution control measures should


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include the interlinking of the position of the hood system and furnace to ensure that the emission from the furnace shall be treated and routed through wet scrubber and stack.

24. The proponent shall submit the video and photograph of the operational details with particular reference to points of pollution in the existing plant.
25. Material balance and Water balance shall be furnished in accordance with MoEF&CC guidelines.
26. A detailed report on Solid waste & hazardous waste management shall be furnished.
27. Report on AAQ survey and proposed air pollution prevention and control measures shall be furnished in the EIA report.
28. The project proponent shall do the stoichiometric analysis of all the involved reactions to assess the possible emission of air pollutants in addition to the criteria pollutants, from the proposed project.
29. Adequacy report for ETP & STP for the proposed project obtained from any reputed Government institution such as IIT, Anna University, NIT shall be furnished.
30. Land use classification shall be obtained from the DTCP for the Survey Numbers of this project. Further, the project proponent shall submit the planning permission obtained from the DTCP, if any.
31. The proponent shall conduct the EIA study and submit the EIA report for the entire campus along with layout and necessary documents such as "A" register and village map.
32. The PP shall produce/display the EIA report, executive summary and other related information in Tamil.
33. 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 purposes involved in the project.
34. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.


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35. The project proponent shall explore the possibilities of treating and utilizing the trade effluent and sewage within the premises to achieve Zero liquid discharge.
36. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should be not less than 15 % of the total land area of the project.
37. As the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
38. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP.

Agenda No: 409 – 03

(File No: 10312/2023)


Proposed Rough Stone quarry lease over an extent of 4.94.32 Ha at SF.Nos. 314 (Part – III) of Thuppuganapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. G. Perumal - For Terms of Reference.

(SIA/TN/MIN/430287/2023, Dated: 22.05.2023)

The proposal was placed for appraisal in this 409th SEAC meeting held on 21.09.2023. 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. Perumal has applied for Terms of Reference for the Proposed Rough Stone quarry lease over an extent of 4.94.32 Ha at SF.Nos. 314 (Part – III) of Thuppuganapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.


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Now, the proposal was placed in the 409th SEAC meeting held on 21.09.2023. During the meeting the EIA coordinator informed that the project proponent was absent for the meeting. Hence the subject was not taken up for appraisal and committee decided that the project proponent shall furnish the reason for his absence.

Agenda No: 409 – 04


(File No: 10319/2023)


Proposed Rough Stone and Gravel quarry lease over an extent of 1.58.0 Ha at SF.Nos. 43/1A, 1B(P) & 45/1A1, 1A2(P) of Appayanaickenpatti Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. S. Subburaj - For Terms of Reference. (SIA/TN/MIN/439326/2023, Dated: 07.08.2023)

The proposal was placed for appraisal in this 409th SEAC meeting held on 21.09.2023. 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. Subburaj has applied for Terms of Reference for the Proposed Rough Stone and Gravel quarry lease over an extent of 1.58.0 Ha at SF.Nos. 43/1A, 1B(P) & 45/1A1, 1A2(P) of Appayanaickenpatti Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier EC obtained vide Lr.No.SEIAA-TN/F.No.5631/1(a)/EC.No:3698/2016 Dated: 06.09.2016 for a production quantity of 74,270 cu.m. of rough stone and 6,264 cu.m of weathered rock and 6,600 cu.m of Gravel for a depth of 32m.

Now, the proposal was placed in the 409th SEAC meeting held on 21.09.2023. Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs as per the Annexure I of this minute, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:


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1. The proponent shall obtain Certified Compliance Report from IRO, MoEF&CC, Chennai for the Environmental clearance obtained earlier from the SEIAA and submit the actions taken report along with EIA Report.
2. The proponent shall complete the fencing in the other existing abandoned quarries located nearby and shall submit photographic/videographic evidence along with EIA Report.
3. The proponent shall ensure that boundary pillar stones shall be erected in all the corners and further pillars shall be erected along the effective mining area with suitable colour differentiating the mine lease boundary and effective mining area and photographic/videographic evidence shall be submitted along with EIA Report.
4. The proponent shall study in detail regarding the impacts due to quarrying activities on the residential college which is located in the south eastern direction with respect to noise, dust, and vibration and shall furnish mitigation measures along with EIA report.
5. For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and existing quarry high walls, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, IIT (ISM)/Dhanbad and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report detailing the slope stability action plan & stabilization measures shall be submitted to the SEIAA along with EIA/EMP.

Agenda No: 409 – 05

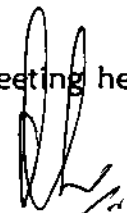
(File No: 10326/2023)

Proposed Rough Stone and Gravel quarry lease over an extent of 0.70.50 Ha at SF.Nos. 163/1A, 1B, 1C of Chokkanathanputhur Village, Rajapalayam Taluk, Virudhunagar District, Tamil Nadu by Thiru. K. Prasanna - For Terms of Reference.

(SIA/TN/MIN/440188/2023, Dated: 14.08.2023)

The proposal was placed for appraisal in this 409th SEAC meeting held on


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21.09.2023. The details of the project furnished by the proponent are given in the website parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. K. Prasanna has applied for Terms of Reference for the Proposed Rough Stone and Gravel quarry lease over an extent of 0.70.50 Ha at SF.Nos. 163/1A, 1B, 1C of Chokkanathanputhur Village, Rajapalayam Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Now, the proposal was placed in the 409th SEAC meeting held on 21.09.2023. Based on the presentation and document furnished by the proponent, SEAC noted that


1. The sensitive structures possessed by Government Hospital and School are located within 500m radius from the proposed mine lease area.
2. Another structure – Brick kiln which is highly sensitive to the impacts produced from the blasting operation is situated within 300 m.
3. The Eco-sensitive Zone of the Srivilliputhur Grizzled Squirrel Wildlife Sanctuary & SMTR boundary is located at a distance of 2.7 km (NW) from the lease area.
4. Besides, two quarries are already operating within the vicinity of 500 m in the extent of 4.10 Ha and the addition of the proposed quarry may increase the pollution load in the existing area by virtue of using same transportation routes with the location of sensitive zones such as school and hospital premises.
5. The proposed quarry is shown in the virgin area for a lease area of less than 1 Ha not ideally suitable for systematic & scientific operations.

Further, this proposal attracts the following legal implications:

- (i) Under the provisions of Tamil Nadu Minor Mineral Concession Rules, 1959, Rule 36 (1-A) (a) says

"... No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site: Provided that the exiting quarries which are subsisting under current leases shall be entitled for continuance till the expiry of the lease period. The lessees whose quarries lie within a radius


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of 300 metres from the inhabited site shall undertake blasting operations only after getting permission of the Director of Mines Safety, Chennai”.

Similarly, Rule 36 (1-A) (c) also indicates

“.... No new layout, building plans falling within 300 metres from any quarry should be given approval by any agency unless prior clearance of the Director of Geology and Mining is obtained. On receipt of proposals for according clearance, the Director of Geology and Mining (DGM) shall decide upon the continuance or closure, as the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such clearance....”.

In view of the above reasons, the SEAC decided that grant of Environmental Clearance for this proposal will be detrimental to environment in this area and consequently decided not to ToR and also not to recommend the Environmental clearance to this proposal at this juncture.

Agenda No: 409-06

(File No.10299/2023)


Proposed Rough Stone and Gravel Quarry at over an Extent of 3.01.00 Ha of S.F.Nos. 302/1 304/1A & 304/2A of Anaikulam Village, Veerakeralampudur Taluk, Tenkasi District, Tamil Nadu by Thiru. N.H.M. Pandian – For Terms of Reference (SIA/TN/MIN/439473/2023 dated.07.08.2023)

The proposal was placed in the 409th meeting of SEAC held on 21.09.2023. 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. N.H.M. Pandian has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry at over an Extent of 3.01.00 Ha of S.F.Nos. 302/1 304/1A & 304/2A of Anaikulam Village, Veerakeralampudur Taluk, Tenkasi 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 meeting, the Committee noted that the project proponent was absent and


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hence the subject was not taken up for discussion. Further, the SEAC decided that the proponent shall furnish reason for absence.

Hence, the proponent is advised to furnish the reason within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.

Agenda No: 409-07

(File No.10313/2023)

Proposed Multi Colour Granite Quarry lease over an Extent of 5.43.0 Ha at S.F.Nos. 96/2A, 96/2B(Part), 97/3A(Part), 94/1(Part), 93(Part), 92/3(Part), 91/2(Part) and 91/1(Part) of Sandhaiyur Village, Sattur Taluk, Virudhunagar District, Tamil Nadu by M/s. Siva Jeyam Granites – For Terms of Reference (SIA/TN/MIN/439527/2023 dt.07.08.2023)

The proposal was placed in the 409th meeting of SEAC held on 21.09.2023. 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. Siva Jeyam Granites has applied for Terms of Reference for the Proposed Multi Colour Granite Quarry lease over an Extent of 5.43.0 Ha at S.F.Nos. 96/2A, 96/2B(Part), 97/3A(Part), 94/1(Part), 93(Part), 92/3(Part), 91/2(Part) and 91/1(Part) of Sandhaiyur Village, Sattur Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the project proponent vide Lr.No.SEIAA-TN/F.No.4356/EC/1a/2697/2015 dated.08.01.2016 for a quantity of 8564m³ of multi-colour granite & 1978m³ of topsoil upto a depth of 11m.
4. The proponent has furnished the Certified Compliance Report (CCR) obtained from Integrated Regional Office, Chennai of MoEF&CC vide F.No.EP/12.1/2022-23/SEIAA/250/TN/155 dated.03.02.2023 for the EC issued earlier dated.08.01.2016.
5. As per the CCR dated.03.02.2023, the proponent has achieved a depth of 7m against the EC approved depth of 11m.


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6. But, from the other details/documents submitted by the project proponent, the EC approved parameters & the actual achieved parameters are noted as follows:

S.No	Parameter	As approved in EC dated.08.01.2016	Actuals Achieved by the proponent
1	Quantity	8564m ³ of multi-colour granite & 1978m ³ of topsoil	33,436.489 m ³ of multi-colour granite
2	Depth	11m	44m

7. Further, from the letter dated.21.10.2020 issued by the Director, Department of Geology & Mining, it is ascertained that the District Collector has issued a demand notice to M/s. Sivajeyam Granites Sivakasi for transportation of multi-colour granite over and above EC quantity (20046.852 cbm). The penalty levied by the Collector is Rs.4,13,96,749/-
8. Aggrieved by the orders of the District Collector, Virudhunagar, the lessee has filed the writ petition before the Madurai bench of High Court in W.P.(MD).11153 of 2020 and prayed that quashing the imposed order by the District Collector. The Hon'ble Court has issued the interim stay on 08.09.2020 against the District Collector order.
9. The Hon'ble Madurai Bench of Madras High Court in its order dated.14.09.2020 in W.P.(MD) No.11153 of 2020 has ordered that,

"...The petitioner was granted quarrying lease to quarry granite in the petition mentioned patta land. The lease was granted way back in the year 2010. It is a 20 years lease. The petitioner has been visited with the impugned demand calling upon him to pay a sum of Rs.4,13,96,749/- towards the value of the minerals quarried in excess. Though the petitioner wants to contest the correctness and validity of the said demand, in order to purchase peace, the petitioner has decided to pay the said amount..."

10. The PP was allowed to pay the amount in three monthly instalments.
11. As per the Hon'ble High Court order, the petitioner has remitted the first instalment amount of Rs.1,37,98,916/- on 25.09.2020.


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12. In view of the above, the SEAC noted that as per MoEF & CC Notification S.O. 804 (E) dated 14.03.2017,

"In case the project or activities requiring prior Environmental Clearance under EIA Notification 2006 from the concerned Regulatory Authority are brought for Environmental Clearance after starting the construction work, or have undertaken expansion, modernization and change in product-mix without prior EC, these projects shall be treated as cases of violations and in such cases, even Category B projects which are granted Environmental Clearance by the SEIAA constituted under sub-section(3) section 3 of the Environment (Protection) Act 1986 shall be appraised for grant of Environmental Clearance only by the concerned Expert Appraisal Committee and Environmental Clearance will be granted accordingly".

In the present case, the proponent has exceeded the quantity & depth beyond the permissible limits as specified in the prior EC issued and therefore it falls under the violation category under the provisions of the environmental law.


In this regard, the SEAC after detailed deliberations decided the following:

- i) The EIA consultant is requested to submit the damage assessment report for the violations committed by the PP as per CPCB norms. The report shall include assessment of ecological damage, remediation plan and natural and community resource augmentation plan.
- ii) Further, the SEIAA is requested to point out to the IRO, MoEF & CC regarding the incorrect values pertaining to the existing depth of the quarry mentioned in the CCR dated. 03.02.2023 furnished by the Integrated Regional Office, MoEF & CC, Chennai.

Agenda No: 409-08
(File No.10327/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 1.25.0 Ha S.F.Nos. 492/2A(P), 492/2B(P), 492/2C(P), 492/2D(P), 493/1A2(P), 493/1B(P) and 493/1C(P) of Pakkam Village, Maduranthagam Taluk, Chengalpattu District Tamil Nadu by Thiru. R. Anugrahaprasath – For Terms of Reference (SIA/TN/MIN/440547/2023 dt.16.08.2023)


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The proposal was placed in the 409th meeting of SEAC held on 21.09.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

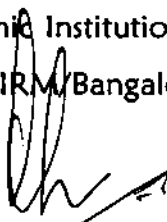
The SEAC noted the following:

1. The project proponent, **Thiru. R. Anugrahasath** has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry lease over an extent of 1.25.0 Ha S.F.Nos. 492/2A(P), 492/2B(P), 492/2C(P), 492/2D(P), 493/1A2(P), 493/1B(P) and 493/1C(P) of Pakkam Village, Maduranthagam Taluk, Chengalpattu 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. During the meeting, the EIA Coordinator stated that the baseline data for the cluster has been already collected for the another quarry falls within the cluster.

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 submit the conservation measures in consultation with the concerned DFO since Vedanthangal Birds Sanctuary & Karikili Birds Sanctuary are located within 10km radius from the proposed project site.
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. Since the water bodies such as Odai, Eri and Tank are located within a distance of 300 m, the PP shall carry out the scientific studies to assess the hydrogeological studies for a core zone of 2 km from the lease boundary of the existing quarry and to specify the water management plan indicating vulnerable zones, through any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore,


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Division of Geotechnical Engineering-IIT-Madras, University of Madras-Centre for Environmental Studies, 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.

Agenda No: 409 - 09

(File No: 10272/2023)


Proposed Multi Colour Granite Quarry over an extent of 2.30.0Ha at SF.No. 12/1A, 12/1B, 12/1C, 12/1D, 12/1E, 12/2A, 12/2B, 12/2C, 12/3A, 12/3B, 12/3C, 12/3D, 12/3E, 12/4A, 12/4B and 12/5A of Veeriyapalayam Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by Thiru. K. Deivendran - For Terms of Reference.

(SIA/TN/MIN/430716/2023, Dated:25.05.2023)

The proposal was placed in the 409th SEAC Meeting held on 21.09.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. K. Deivendran has applied for Terms of Reference for the Proposed Multi Colour Granite Quarry over an extent of 2.30.0Ha at SF.No. 12/1A, 12/1B, 12/1C, 12/1D, 12/1E, 12/2A, 12/2B, 12/2C, 12/3A, 12/3B, 12/3C, 12/3D, 12/3E, 12/4A, 12/4B and 12/5A of Veeriyapalayam Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. Earlier EC Issued by DEIAA Vide DEIAA-DIA/TN/MIN/18428/2018-KRR EC.No. 131/2018/Mines, Dated: 02.11.2018.
4. The lease period is for 20 years. The mining plan is for the period of Five years & the production should not exceed 1,24,703m³ of ROM, 49,882m³ of Multi Colour Granite @ 40% Recovery, 74,821m³ of Granite Waste @60% , 22,380m³ of Weathered Rock & 24,581m³ of Topsoil with an ultimate depth of mining is 31.5m BGL. The annual peak production is 25,596m³ of ROM , 10,238m³ of Multi Colour Granite @ 40% Recovery, 15,358m³ of Granite Waste @60% , 13,104m³ of


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Weathered Rock & 11,753m³ of Topsoil.

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, and subject to the standard conditions as per the Annexure I 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 give an Affidavit before the issuance of ToR from SEIAA-TN stating that the mining operations will remain suspended till they obtain the EC granted by the SEIAA after the reappraisal process as per MoEF & CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
2. 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
3. The PP shall furnish mitigation measures/action plan for the non-compliance stated in the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC.
4. The PP/EIA Coordinator shall explain the mining technique and methodology with strategies to be adopted comprehensively to achieve the unquarried quantity of Rough stone in a duration of just 18 months from a hard rock terrain.


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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 of aforesaid excavation volume of unquarried quantity of Rough stone on the nearby agricultural lands / surrounding environment for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
6. The PP shall carry out the scientific studies to assess the slope stability of the existing quarry wall and working benches to be constructed along with slope stability remedial action plan, 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, IIT(ISM)/Dhanbad, 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 with slope stability action plan during the time of appraisal for obtaining the EC.

Agenda No: 409-10

(File No: 10279/2023)


Proposed Construction of Multi Storeyed Residential Apartment Buildings at T.S.Nos 74/2, 74/3, 74/4, 74/5, 74/6, 74/7, 74/8 in Block 26, Ward-W (23) Ganapathy Village, and T.S. Nos: 7 (Part), 8 (Part) in Block 3, Ward-X (24) of Krishnarayapuram Village, Coimbatore North Part, Coimbatore North Taluk, Coimbatore District, Tamil Nadu by M/s. A.V Properties India Private Limited - For Terms of Reference.

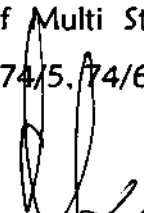
(SIA/TN/INFRA2/421190/2023, Dated:28.07.2023)

The proposal was placed in 409th Meeting of SEAC held on 21.09.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. A.V Properties India Private Limited has applied for Terms of Reference for the Proposed Construction of Multi Storeyed Residential Apartment Buildings at T.S.Nos 74/2, 74/3, 74/4, 74/5, 74/6, 74/7,


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74/8 in Block 26, Ward-W (23) Ganapathy Village, and T.S. Nos: 7 (Part), 8 (Part) in Block 3, Ward-X (24) of Krishnarayapuram Village, Coimbatore North Part, Coimbatore North Taluk, Coimbatore District, Tamil Nadu.

2. The project/activity is covered under Category "B1" of Item 8(b) "Township and Area Development Projects" of the Schedule to the EIA Notification, 2006.
3. The Total plot area is 9,901 Sq. m (or) 2.4466 Acres. Built-up area is 32,466.50 Sq.m.
4. It was noted that the PP has constructed 2,351 sq.m in the proposed total built up area of 32,466.50 Sq.m. The proponent has started the proposed construction work without obtaining EC.
5. As per MoEF & CC Notification S.O. 804 (E) dated 14.03.2017,

"In case the project or activities requiring prior Environmental Clearance under EIA Notification 2006 from the concerned Regulatory Authority are brought for Environmental Clearance after starting the construction work, or have undertaken expansion, modernization and change in product-mix without prior EC, these projects shall be treated as cases of violations and in such cases, even Category B projects which are granted Environmental Clearance by the SEIAA constituted under sub-section(3) section 3 of the Environment (Protection) Act 1986 shall be appraised for grant of Environmental Clearance only by the concerned Expert Appraisal Committee and Environmental Clearance will be granted accordingly".

6. MoEF& CC Notification S.O.1030 (E) dated 08.03.2018.
7. MoEF&CC OM F.No.22-21/2020-IA.III Dt:07.07.2021.
8. MoEF&CC OM F.No.22-21/2020-IA.III [138949] Dt:28.01.2022.
9. In the present case, the proponent has started the proposed construction work without obtaining EC and hence the proposal has to be treated as 'violation'.

Based on the presentation & documents furnished, since the PP has started the project without obtaining EC and has also not applied during the window period, this project has to be treated as violation case under SoP notified by the MoEF & CC outside the window period.



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The SEAC noted that, the MoEF&CC has issued office memorandum Dated 28th January, 2022 regarding observation of Hon'ble Supreme Court with reference to the SoP dated 7th July 2021 for identification and handling of violation cases under EIA Notification 2006 and stated that "93. The interim order passed by the Madras High Court appears to be misconceived. However, this Court is not hearing an appeal from that interim order. The interim stay passed by the Madras High Court can have no application to operation of the Standard Operating Procedure to projects in territories beyond the territorial jurisdiction of Madras High Court. Moreover, final decision may have been taken in accordance with the Orders/ Rules prevailing prior to 7th July, 2021."

Hence SEAC decided to issue following Terms of Reference under Violation along with submission of assessment of ecological damage, remediation plan and natural and community resource augmentation plan, as per Notification vide S.O.804(E) Dt. 14.3.2017. Terms of Reference are issued subject to final orders of the Hon'ble High Court of Madras in the matter W.P.(MD) No. 11757 of 2021.

1. The PP shall adopt green building norms and shall get minimum IGBC Gold rating for the proposed buildings.
2. Project Proponent shall furnish the copy of land use classification certificate obtained from the competent authority.
3. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the Municipal Corporation/Competent Authority.
4. The PP shall adopt permeable pavement design to harvest rainwater.
5. The PP shall furnish proposal for utilization of at least 50% of roof top area for harnessing Solar Energy for common area lighting and Solar water heater etc shall be included in the EIA/EMP report.
6. The proponent shall provide green parking area as per the requirements at ground level.
7. The traffic study shall be included in the EIA Report.
8. The PP shall furnish NOC of Airport authority for Height Clearance.
9. The PP shall furnish Fire NOC.


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10. The proponent shall furnish the details of sewage treatment technology proposed for this activity and also furnish the design details of the said STP along with adequacy report from any one of the reputed Educational Institution.
11. The treated/untreated sewage water shall not be let-out from the unit premises accordingly revised water balance shall be incorporated.
12. The project proponent shall furnish proposal for the adequate elevated closed roof area earmarked for collection, segregation, storage & disposal of wastes generated within the premises as per provisions of Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001, STP, ETP along with development area for the proposed project activity.
13. The proposal to construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
14. As per G.O. Ms. No. 142 approval from Central Ground Water Authority shall be obtained for withdrawal of water and furnish the copy of the same, if applicable.
15. Copy of the village map, FMB sketch and "A" register shall be furnished.
16. Detailed Evacuation plan during emergency/natural disaster/untoward accidents shall be submitted.
17. Details of the Rain water harvesting system with cost estimation should be furnished.


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18. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
19. The proposed OSR area should not be included in the activity area. The OSR area should not be taken in to account for the green belt area.
20. The layout plan shall be furnished for the greenbelt area earmarked with GPS co-ordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should not be less than 15% of the total land area of the project.
21. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.
22. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.
23. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modelling for the ground water, emission, noise and traffic.
24. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA.II dated: 30.09.2020 and 20.10.2020, the proponent shall furnish the detailed EMP mentioning all the activities as directed by SEAC.

Agenda No: 409 - 11

(File No: 10286/2023)

Proposed Rough stone & Gravel Quarry over an extent of 0.86.0Ha at SF.No. 347/1B & 347/2B of Elathur 'A' Village, Nambiyur Taluk, Erode District, Tamil Nadu by Thiru. K.Vijay Perichiyappan - For Terms of Reference.


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(SIA/TN/MIN/438772/2023, Dated:01.08.2023)

The proposal was placed in the 409th SEAC Meeting held on 21.09.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.Vijay Perichiyappan has applied for Terms of Reference for the Proposed Rough stone & Gravel Quarry over an extent of 0.86.0Ha at SF.No. 347/1B & 347/2B of Elathur 'A' Village, Nambiyur Taluk, Erode District,Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. Earlier EC Issued by SEIAA-TN vide Lr. No. SEIAA-TN/F.No.3827/1(a)/Ec.No.2934/2015, Dated:17.02.2016.
4. The lease period is for 5 years. The mining plan is for the period of five years & the production should not exceed 23,125m³ of rough stone with an ultimate depth of mining is 28m BGL (3m Gravel + 25m Rough stone). The annual peak production is 4,725m³ of rough stone.

Based on the presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, and subject to the standard conditions as per the Annexure I of this minute, 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 ownership details of all survey numbers in EIA report.
2. The PP shall submit Certified Compliance Report obtained from the office of the concerned IRO, MoEF & CC, Chennai and the PP shall furnish appropriate mitigating measures for the non-compliance items, if any.
3. The PP shall submit the 'Action Plan' on the issues raised during the Public Hearing with budgetary provisions for the same.
4. The PP shall submit the controlled blasting measures for reducing the impacts due to the blasting operation in the proposed quarries within 1 km of the proposed quarry.


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5. The PP shall submit a 'Conceptual Mining Plan' indicating the accessible ramp from the surface to the pit bottom keeping the benches intact for the dimension as stipulated in the Approved Mining Plan.
6. The PP shall submit the nature of buildings/structures, occupants and their profession, etc located within 500 m radius of the proposed quarry.
6. For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry high walls existing in a limited area of 0.86 Ha specifying the slope stability remedial action plan, through anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, IIT (ISM)/Dhanbad and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report detailing the slope stability action plan & stabilization measures shall be submitted to the SEIAA along with EIA/EMP.

Agenda No: 409 - 12

(File No: 10293/2023)


Proposed Ordinary stone & Gravel Quarry over an extent of 2.28.0Ha at SF.No. 174/4 & 176/1 of Edayarpalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru.K.Ranganathan - For Terms of Reference.

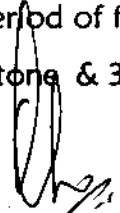
(SIA/TN/MIN/436694/2023, Dated:14.07.2023)

The proposal was placed in the 409th SEAC Meeting held on 21.09.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.Ranganathan has applied for Terms of Reference for the Proposed Ordinary stone & Gravel Quarry over an extent of 2.28.0Ha at SF.No. 174/4 & 176/1 of Edayarpalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. The lease period is for 10 years. The mining plan is for the period of five years & the production should not exceed 1,54,977m³ of Ordinary stone & 33,330m³


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of Gravel with an ultimate depth of mining is 20m BGL. The annual peak production is 31,190m³ of Ordinary stone & 12,134m³ of Gravel.

Based on the presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, and subject to the standard conditions as per the Annexure I of this minute, 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 ownership details of all survey numbers in EIA report.
2. As wind mill is located nearby, the PP shall submit **Modified Mining Plan** approved by competent authority leaving a distance of 150m from the wind mill structure.
3. The PP shall submit the 'Action Plan' on the issues raised during the Public Hearing with budgetary provisions for the same.
4. The PP shall submit the controlled blasting measures for reducing the impacts due to the blasting operation in the proposed quarries within 1 km of the proposed quarry based on a blast simulation model.
5. The PP shall submit a 'Conceptual Mining Plan' indicating the accessible ramp from the surface to the pit bottom keeping the benches intact for the dimension as stipulated in the Approved Mining Plan.
6. The PP shall submit the nature of buildings/structures, occupants and their profession, etc located within 500 m radius of the proposed quarry.


Agenda No: 409-13


(File No: 10328/2023)

Proposed Manufacturing of Synthetic Organic Chemicals – API (Bulk Drugs & Intermediates) at S.F.No. 114/1A2, 113/7 & 113/8 of Porur Village, Cheyyur Taluk, Chengalpattu District Tamil Nadu by M/s. Nutri Flavours Private Limited - For Terms of Reference. (SIA/TN/IND3/439198/2023, Dated: 07.08.2023)

The proposal was placed in 409th SEAC meeting held on 21.09.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The Project Proponent, M/s. Nutri Flavours India Private Limited has applied for Terms of Reference for the Proposed Manufacturing of Synthetic Organic Chemicals – API (Bulk Drugs & Intermediates) at S.F.No. 114/1A2, 113/7 & 113/8 of Porur Village, Cheyyur Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Item 5(f) “synthetic organic chemicals industry” of the Schedule to the EIA Notification, 2006.

Based on the presentation and details furnished by the project proponent, SEAC decided to defer and call for additional particulars as follows,

The PP states that the plant is located outside the Notified industrial area and requires EC at SEAC/SEIAA which is small unit. Hence,

1. The PP shall furnish original DPR.
2. The PP shall submit water balance data.
3. The PP shall furnish boiler capacity and its fuel consumption.
4. The PP shall furnish the details of complete process description, flow data etc.,
5. The PP should have obtained EC for the existing products (hydrolysed Vegetable Protein liquid/Powder & Mixed Amino acid liquid ingredients, Bio fertilizer & Pharma formulations), and the PP shall justify reason for not obtaining EC for the same.

Agenda No: 409-14


(File No: 10308/2023)

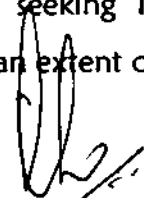
Proposed Multi Colour Granite quarry over an extent of 4.08.5 Ha at S.F. Nos. 505/1, 509/1, 509/2, 510, 511 and 571/4 of Pilathu Village, Veda sandur Taluk, Dindigul District, Tamil Nadu by M/s. Alagu GG Granite - For Terms of Reference
(SIA/TN/MIN/430639/2023 dt 24.05.2023)

The proposal was placed in this 409th meeting of SEAC held on 21.09.2023. 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, M/s. Alagu GG Granite has applied seeking Terms of Reference for the proposed Multi Colour Granite quarry over an extent of 4.08.5


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Ha at S.F. Nos. 505/1, 509/1, 509/2, 510, 511 and 571/4 of Pilathu Village, Vedasandur Taluk, Dindigul 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. Earlier, the PP has obtained EC in DEIAA vide Lr.No.DEIAA/DGL/EC.No.054/2017 dated: 15.12.2017 for the production quantity of 20,010 m³ of Multicolour Granite up to depth of 14m below ground level.
4. The precise area communication was issued for the period of 20 Years. The mining plan is for 5 Years. The annual peak production for Five Years period shall not exceed 4015.375 m³ of Granite recovery for the ultimate depth of 34m.

5. Kadavur Slender Loris Wildlife Sanctuary is at 5Km (appx.) from the proposed site. 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 proposed site attracts the provisions contained in para 5 of MoEF&CC OM vide FC-11/119/2020-FC Dated 17.05.2022 issued regarding Clarification on Requirement of Various Environmental and Forest Clearances for Project/Activity in Eco-Sensitive Zone and Other Such Areas outside Protected Area. Hence, the proponent shall obtain Clearance from National Board for Wildlife (NBWL) and submit the same along with EIA Report.
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.


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Agenda No: 409-15

(File No: 10315/2023)

Proposal of Software Development Complex at Plot No-3/G3 (S.F. Nos. 111/1 part, 168/1 part & 130/1 part) of SIPCOT Information Technology Park, Siruseri, Egattur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu by M/s. Intellect Design Arena Limited – For Terms of Reference under violation category.

(SIA/TN/INFRA2/439504/2023, dated 08.08.2023)

The proposal was placed in this 409th meeting of SEAC held on 21.09.2023. 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, M/s. Intellect Design Arena Limited has applied seeking Terms of Reference under violation category for the Proposal of Software Development Complex at Plot No-3/G3 (S.F. Nos. 111/1 part, 168/1 part & 130/1 part) of SIPCOT Information Technology Park, Siruseri, Egattur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B" of item 8(a) "Building and Construction projects" of the Schedule to the EIA Notification, 2006.
3. M/s. Polaris Software Lab Limited has submitted application for Environmental Clearance vide ref no. SEAC/DC/F.No.437/8(a)/2011 dated 08.02.2011 for the construction of Software Development Complex. As per Application submitted, the project involves total built-up area of 24369 Sq.m and plot area of 54025.12 Sq.m.
4. SEIAA-TN vide letter no. SEIAA/F.No.437/2012 dt.20.06.2013 notified that the construction of the project was almost completed without obtaining prior Environmental Clearance from the competent authority and it was considered as a violation of EIA notification 2006. The project was included in the list of cases involving violations of Environmental Protection Act, 1986 and it was delisted from the list of proposals under process in SEIAA-TN.
5. In the year 2014, M/s. Polaris Software Lab Limited change of name as M/s. Polaris Financial Technology Limited via Incorporation Certificate


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dt. 22.07.2014.

Later, M/s. Polaris Financial Technology Limited has been demerged from it and merged with Resulting Company M/s. Intellect Design Arena Limited under Scheme of Arrangement sanctioned by High Court of Judicature, Madras vide ref: C. P. No. 283&284/2014 dated: 23.09.2014 and the SIPCOT, Modified Lease Deed issued to M/s. Intellect Design Arena Limited vide date: 10.03.2015.

6. MoEF&CC Notification S.O. 804 (E) dated 14.03.2017
7. MoEF&CC Notification S.O. 1030 (E) dated 08.03.2018
8. MoEF&CC Office Memorandum F.No.22-10/2019-IA.III dated 09.09.2019
9. Now, the project proponent has submitted a letter dated 08.08.2023 stating that the project under violation as per MoEF&CC Office Memorandum F.No.22-10/2019-IA.III dated 09.09.2019, along with Form I, Form IA and conceptual plan for consideration of the proposal for processing of Terms of Reference.

In the present case, the Committee noted that the proponent has started and completed construction activities without obtaining prior Environmental Clearance and hence the proposal has to be treated as 'violation'.


Therefore, in view of the above & based on the presentation and documents furnished by the project proponent, the SEAC decided to **recommend for the grant of Terms of Reference (ToR) under violation category** subject to the following ToRs, in addition to the standard terms of reference for EIA study and details issued by the MOEF & CC to be included in the EIA/EMP report along with assessment of ecological damage, remediation plan and natural & community resource augmentation plan and it shall be prepared as an independent chapter in the Environment Impact Assessment report by the accredited consultant and also with collection and analysis of data for the assessment of ecological damage, preparation of remediation plan and natural & community resource augmentation plan to be done by an Environmental laboratory duly notified under the Environment (Protection) Act, 1986, accredited by NABET or a laboratory of Council of Scientific and Industrial Research Institutions working in the field of


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Environment.

1. This ToR is issued subject to the outcome of the court case filed before the Hon'ble High Court of Madras (Madurai Bench) vide W.P.(MD) No. 11757 of 2021 titled Fatima Vs Union of India challenging the SoP for violation proposals dated 07th July 2021.
2. The project proponent has to furnish copy of the consent order obtained from TNPCB.
3. The project proponent has to furnish Report of Analysis (ROA) obtained from TNPCB laboratory for the water samples collected by TNPCB.
4. The project proponent has to furnish Ambient Air Quality & stack survey report conducted by TNPCB.
5. The project proponent has to develop greenbelt in the available existing vacant land area.
6. The project proponent has to provide minimum 50% of the rooftop with solar panels.
7. The proposal should comply with Green Building norms and should obtain minimum of IGBC Gold rating.
8. The PP shall furnish LEED certificate obtained from the competent authority.
9. The PP shall furnish Commitment letter obtained from the competent authority for supply of fresh water.
10. Copy of the village map, FMB sketch and "A" register shall be furnished.
11. The proponent shall furnish the design details of the STP treatment system.
12. The space allotment for solid waste disposal and sewage treatment & grey water treatment plant shall be furnished.
13. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
14. Details of the E-waste management plan shall be prepared as per E-waste Management Rules, 2016 and shall be furnished.


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15. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modelling for the ground water, emission, noise and traffic.
16. Details of the rain water harvesting system with cost estimation should be furnished.
17. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
18. The PP shall explore construction of pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a structure which was crucial to the overall eco-system.
19. The layout plan shall be furnished for the greenbelt area earmarked with GPS co-ordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should not be less than 15% of the total land area of the project.
20. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.
21. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report


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shall be furnished.

22. Detailed Evacuation plan during emergency/natural disaster/unto ward accidents shall be submitted.

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 furnish the detailed EMP.

Agenda No: 409-16

(File No: 10329/2023)

Proposed Expansion for Manufacturing of Synthetic Organic Chemicals – API (Bulk Drugs & Intermediates) at S.F. Nos. 45/2A, 45/1B, 45/2B of Pazhayanur Village and S.F. Nos. 39/1A (Pt), 39/1B (Pt), 39/1C (Pt), 44/4 (Pt), 45/4 (Pt) of Kolambakkam Village, Maduranthagam Taluk, Chengalpattu District, Tamil Nadu by M/s. Innovative Health Care (India) Pvt. Ltd. - For Terms of Reference

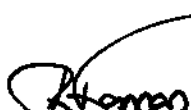
(SIA/TN/IND3/436676/2023 Dt. 07.08.2023)

The proposal was placed in this 409th meeting of SEAC held on 21.09.2023. 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, M/s. Innovative Health Care (India) Pvt. Ltd. has applied seeking Terms of Reference for the Proposed Expansion for Manufacturing of Synthetic Organic Chemicals – API (Bulk Drugs & Intermediates) at S.F. Nos. 45/2A, 45/1B, 45/2B of Pazhayanur Village and S.F. Nos. 39/1A (Pt), 39/1B (Pt), 39/1C (Pt), 44/4 (Pt), 45/4 (Pt) of Kolambakkam Village, Maduranthagam Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category “B1” of Item 5(f) “Synthetic organic chemicals industry” of the Schedule to the EIA Notification, 2006 as amended.

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

1. The project proponent has to furnish Detailed Project Report (DPR).
2. The project proponent shall furnish complete process flow with detailed description along with stagewise chemical reaction details.


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3. The said expansion project is located between Vedanthangal Bird Sanctuary and Karikili Bird Sanctuary. Hence, the PP shall obtain NOC from the Wildlife Warden, Chennai.
4. The project proponent shall furnish total water consumption details (detailed water balance).

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

Agenda No: 409 - 17

(File No: 10302/2023)

Proposed Construction of Hotel (Basement + Ground + 7 Floors) at S.F. No. 79/1A1, 79/1A2, 79/1B, 79/2, 79/3A, 79/3B, 79/5, 79/6, 79/7, 81/1A1A, 81/1A1B and 81/6A of Anuppanadi Village, Madurai South Taluk, Madurai District, Tamil Nadu by M/s. Velammal Hotels and Resorts LLP - For Terms of Reference.


(SIA/TN/INFRA2/438890/2023Dt. 02/08/2023)

The proposal was placed in this 409th SEAC Meeting held on 21.09.2022. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Velammal Hotels and Resorts LLP has applied for Terms of Reference for the Proposed Construction of Hotel (Basement + Ground + 7 Floors) at S.F. No. 79/1A1, 79/1A2, 79/1B, 79/2, 79/3A, 79/3B, 79/5, 79/6, 79/7, 81/1A1A, 81/1A1B and 81/6A of Anuppanadi Village, Madurai South Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 8(b) "Townships and Area Development Projects" of the Schedule to the EIA Notification, 2006.
3. The proposal Construction of Hotel (Basement + Ground + 7 Floors) with a total built up area of 22,308.08 Sq.M and the total no. of dwelling units is 941 Nos.

Hence SEAC decided to issue following Terms of Reference under Violation along with submission of assessment of ecological damage, remediation plan and


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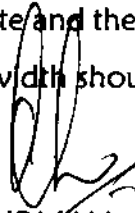
natural and community resource augmentation plan, as per Notification vide S.O.804(E) Dt. 14.3.2017. Terms of Reference are issued subject to final orders of the Hon'ble High Court of Madras in the matter W.P.(MD) No. 11757 of 2021.

1. The PP shall adopt green building norms and shall get minimum IGBC Gold rating for the proposed buildings.
2. Project Proponent shall furnish the copy of land use classification certificate obtained from the competent authority.
3. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the Municipal Corporation/Competent Authority.
4. The PP shall adopt permeable pavement design to harvest rainwater.
5. The PP shall furnish proposal for utilization of at least 50% of roof top area for harnessing Solar Energy for common area lighting and Solar water heater etc shall be included in the EIA/EMP report.
6. The proponent shall provide green parking area as per the requirements at ground level.
7. The traffic study shall be included in the EIA Report.
8. The PP shall furnish NOC of Airport authority for Height Clearance.
9. The PP shall furnish Fire NOC.
10. The proponent shall furnish the details of sewage treatment technology proposed for this activity and also furnish the design details of the said STP along with adequacy report from any one of the reputed Educational Institution.
11. The treated/untreated sewage water shall not be let-out from the unit premises accordingly revised water balance shall be incorporated.
12. The project proponent shall furnish proposal for the adequate elevated closed roof area earmarked for collection, segregation, storage & disposal of wastes generated within the premises as per provisions of Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste

Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001, STP, ETP along with development area for the proposed project activity.

13. The proposal to construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
14. As per G.O. Ms. No. 142 approval from Central Ground Water Authority shall be obtained for withdrawal of water and furnish the copy of the same, if applicable.
15. Copy of the village map, FMB sketch and "A" register shall be furnished.
16. Detailed Evacuation plan during emergency/natural disaster/unto ward accidents shall be submitted.
17. Details of the Rain water harvesting system with cost estimation should be furnished.
18. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
19. The proposed OSR area should not be included in the activity area. The OSR area should not be taken in to account for the green belt area.
20. The layout plan shall be furnished for the greenbelt area earmarked with GPS co-ordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be


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at least 3m wide all along the boundaries of the project site. The green belt area should not be less than 15% of the total land area of the project.

21. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.
22. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.
23. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modelling for the ground water, emission, noise and traffic.
24. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA.II dated: 30.09.2020 and 20.10.2020, the proponent shall furnish the detailed EMP mentioning all the activities as directed by SEAC.


Agenda No: 409-18

(File No: 10275/2023)

Proposed Rough Stone and Gravel Quarry over an extent of 3.66.45 Ha at S.F.No's : 19/7A, 19/7B, 19/12, 19/13, 19/14A, 19/14B and 119/1A of Thollamur & Nemili Village, Vanur Taluk, Villupuram District, Tamil Nadu by Thiru. A. Shanmugam -For Terms of Reference. (SIA/TN/MIN/437688/2023, Dated:22.07.2023).

The proposal was placed in the 409th Meeting of SEAC held on 21.09.2023. 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.Shanmugam has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry over an extent of 3.66.45 Ha at S.F.No's : 19/7A, 19/7B, 19/12, 19/13, 19/14A, 19/14B and 119/1A of Thollamur & Nemili Village, Vanur Taluk, Villupuram 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 10 years. The mining plan is for the


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period of five years & production should not exceed 5,21,848 m³ of Rough Stone & 84,114 m³ of Gravel with ultimate depth of mining 50m below ground level. Based on the presentation made by the 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 to be included in EIA/EMP Report:

1. During the presentation, SEAC noted that from the KML file uploaded by the proponent in PARIVESH portal, it is construed that the proposed site has been quarried. Further, the precise area communication letter and mine plan approval letter have not mentioned about the quarrying activity carried out. Hence, AD/Mines shall inspect the quarry site and give his comments on the existing site condition.
2. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m 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.
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 develop greenbelt, fencing and garland drain around the boundary of the proposed quarry and the photographs indicating the same shall be shown during the EIA appraisal.

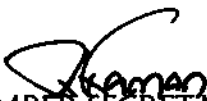
Agenda No: 409-19

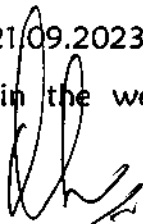
(File No: 10310/2023)

Proposed Multi Colour Granite Quarry over an extent of 2.81.5 Ha at S.F.Nos. 911/1A1, 911/1B1, 913/1A1 (Part) and 913/1B1 (Part) of Alambadi Village, Gujiliamparai Taluk, Dindigul District, Tamil Nadu by M/s. S.G.Granites -For Terms of Reference.

(SIA/TN/MIN/430659/2023, Dated:25.05.2023).

The proposal was placed in the 409th Meeting of SEAC held on 21/09.2023. The details of the project furnished by the proponent are available in the website


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(parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, M/s. S.G.Granites has applied for Terms of Reference for the Proposed Multi Colour Granite Quarry over an extent of 2.81.5 Ha at S.F.Nos. 911/1A1, 911/1B1, 913/1A1 (Part) and 913/1B1 (Part) of Alambadi Village, Gujiliamparai Taluk, Dindigul 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. Lease granted for the period of 20 years. The lease deed was executed on 08.03.2018 and lease period is valid up to 07.03.2038.
4. Earlier, the project proponent has obtained EC from DEIAA vide EC.No: Lr.No.DEIAA-DGL/EC.No.063/2017/Mines, Dated: 29.01.2018 for the period of 5 years from the date of execution of the mining lease period.
5. This EC issued by the DEIAA has been filed before the SEIAA-TN for reappraisal in compliance to the order of the Hon'ble NGT in O.A142 of 2022 as per the Guidelines stipulated in MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
6. As per the mining plan the lease period is 20 years valid upto 07.03.2038. The first scheme of mining plan is for the period of five years (2023 to 2028) & production should not exceed 115685 m³ of ROM, 28922 m³ of Recoverable Reserves@25% & 86763 m³ of Granite Waste@75% with ultimate depth of mining 28m.
7. Based on the KML file submitted by the proponent in Parivesh portal and Google imagery, Kadavur Slender Lorris is approximately at a distance of 11.66Km from the proposed site.

Based on the presentation made by the 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 to be included in EIA/EMP Report:


1. The proponent shall give an Affidavit before the issuance of ToR from SEIAA-TN stating that the mining operations will remain suspended till they obtain the EC


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granted by the SEIAA after the reappraisal process as per MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.

2. The project proponent shall submit a Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai as per the MoEF&CC O.M dated.08.06.2022 for the previous EC dated. 29.01.2018 and appropriate mitigating measures for the non-compliance items, if any.
3. The PP shall furnish valid CTO copy obtained from the TNPCB.
4. The PP shall furnish letter from AD, mines including the following details.
 - i. Existing pit dimension through precise mine surveying (DGPS)
 - 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 in the proposed quarry site
 - 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 as on date
5. The PP shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
6. The PP shall submit the stability status of the existing quarry wall and 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, 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.
7. 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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8. 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.
9. 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.
10. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.

Agenda No: 409-20


(File No: 10331/2023)

Proposed Expansion of Production Capacity of Textile Finishing Chemicals from 3682.032 TPA to 18,000 TPA at Plot No. 367, SIDCO Industrial Estate (North Phase), SF.No. 144, 152, 153, 161 & 162 of Ambattur Village, Ambattur Taluk, Thiruvallur District, Tamil Nadu by M/s. Beva Silicones Private Limited - For grant of Terms of Reference. (SIA/TN/IND3/425929/2023, dated: 11.08.2023).

The proposal was placed for appraisal in the 409th Meeting of SEAC held on 21.09.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. Beva Silicones Private Limited has applied for Terms of Reference for the Proposed Expansion of Production Capacity of Textile Finishing Chemicals from 3682.032 TPA to 18,000 TPA at Plot No. 367, SIDCO Industrial Estate (North Phase), SF.No. 144, 152, 153, 161 & 162 of Ambattur Village, Ambattur Taluk, Thiruvallur District, Tamil Nadu.
2. The project/activity is covered under Schedule 5(f) Category 'B'- Synthetic Organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic synthetic organic chemicals and chemicals intermediate)" of the Schedule to the EIA Notification, 2006.


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The Proponent vide letter dated 20.09.2023 stating his inability to attend the meeting on the aforesaid date, has requested the Committee to reschedule the appraisal of the proposal. The SEAC agreed for the same and decided to defer the subject to a later date.

Agenda No: 409 - 21

(File No: 10297/2023)

Proposed Expansion of existing production capacity along with 26 new additional products in the category of bulk drug products and Installation of Additional Equipments in the existing facility at Plot No.85, 86, 87, 88, 105,106,107,108,109,112,113,114,115 & 116 (Survey No. 223p, 224p, 250, 251, 278 & 279p), in Pappankuppam Village Gummidipoondi Taluk Tiruvallur District by M/s. Anjan Drug Private Limited - For Terms of Reference.

(SIA/TN/IND3/439141/2023 dated 05/08/2023)

The proposal was placed in this 409th meeting of SEAC held on 21.09.2023. 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:

1. The project proponent M/s. Anjan Drug Private Limited has applied for seeking Terms of Reference for the proposed Expansion of existing production capacity along with 26 new additional products in the category of bulk drug products and Installation of Additional Equipments in the existing facility at Plot No.85, 86, 87, 88, 105,106,107,108,109,112,113,114,115 & 116 (Survey No. 223p, 224p, 250, 251, 278 & 279p), in Pappankuppam Village Gummidipoondi Taluk Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 5(f) "synthetic organic chemicals Industry Projects" of the Schedule to the EIA Notification, 2006 as amended.
3. MoEF EC F.No : J-11011/1057/2007-1A(II)) Date : 27.02.2008
4. MoEF&CC ToR Lr. No. F.No.1A-J-11011/157/2017-1A-II(I) dated 17.08.2017
5. SEIAA TN EC Letter No: SEIAA/TN/F.6493/5(f)EC-58/2018 dated:16.02.2018
6. CPCB Lr. No. 29016/04/06/1pc-1/9289 dated 02.08.2018
7. IRO CCR F.No.EP/12.1/2022-23/SEIAA/157/TN/1327 dated 06.12.2022
8. TNPCB Procs. T6/TNPCB/F.No.0164GMP/RL/W&A/2023 dated 16.07.2023


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SEAC further noted that the hard copies of the documents pertaining to the Project were not sent to the SEAC members as required for scrutiny of the proposal. Hence the SEAC decided to take up the appraisal of subject in the ensuing meeting and requested the PP to send the hard copies of the documents to all the members immediately.

Agenda No: 409-22

(File No.10369/2023)

Proposed repair & re-construction of existing shore protection seawall for the Arulmigu Subramaniya Swamy Temple, Tiruchendur, Tamil Nadu – Application seeking CRZ Clearance – Submitted under Terms of Reference (SIA/TN/INFRA1/440855/2023 dt. 18/08/2023)


The proposal was placed in the 409th meeting of SEAC held on 21.09.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

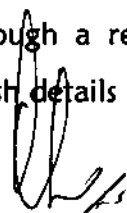
The SEAC noted the following:

1. The project proponent, **Arulmigu Subramaniya Swamy Temple** has submitted an application seeking CRZ Clearance vide ToR Proposal No. SIA/TN/INFRA1/440855/2023 dt. 18/08/2023 for the Proposed repair & re-construction of existing shore protection seawall for the Arulmigu Subramaniya Swamy Temple, Tiruchendur, Tamil Nadu.
2. The DCZMA of Thoothukudi District has recommended the proposal to TNSCZMA in the meeting held on 12.01.2023.
3. The TNSCZMA in its 121st meeting dated.26.02.2023, has recommended the proposal to SEIAA-TN for CRZ Clearance subject to the conditions stated therein.
4. Accordingly, the proponent has submitted an application at SEIAA-TN and the proposal was placed for appraisal in this 409th SEAC meeting.

Based on the presentation and documents submitted by the project proponent, the SEAC decided to call for the following details/documents from the project proponent before deciding on the proposal:

- i) The proponent shall prepare a detailed Shore Management Plan covering 1 km stretch on either side of the proposed structure through a reputed consultant. As a part of the study, the proponent shall furnish details on the


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past erosion data and the implications of the proposed work on erosion. The PP shall also suggest a district level monitoring system to administer the Shore Management Plan in consultation with the District Collector.

- ii) The proponent shall explain in detail the technology proposed to be adopted and implementation process/procedures involved during the re-construction of the seawall.
- iii) The PP shall provide the source of places with mode of transportation & storage facilities for the raw materials (boulders) to be supplied for the construction.
- iv) The PP shall carry out a detailed study on Risk Assessment & Management and submit a 'Safety Audit' for the work is to be accomplished considering the movement of large public in the vicinity.
- v) Further, the proponent shall furnish the timeline related to the implementation of the proposed activities.
- vi) The PP shall provide the Disaster Management Cell headed by a senior official from PWD coordinating the overall activities pertaining to the aforesaid construction.

Hence, the proponent is advised to furnish the details within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.

Agenda No. 409-TA-1

(File No.6568/2023)

Existing Limestone quarry over an extent of 2.25.0 Ha at S.F. No. 455/1, 456/2 & 456/3 of Khairulabad Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu by M/s. Dalmia Cement (Bharat) Limited – For Environmental Clearance under Violation (SIA/TN/MIN/430142/2023 dated:23.05.2023).

The proposal was placed in the 409th Meeting of SEAC held on 21.09.2023. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in). The SEAC noted the following:

1. The Proponent, M/s. Dalmia Cement (Bharat) Limited, has applied for Environmental Clearance for the Existing Limestone quarry over an extent of


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2.25.0 Ha at S.F. No. 455/1, 456/2 & 456/3 of Khairulabad Village, Ariyalur Taluk, Ariyalur 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 mining plan the lease period is 30 years (13.08.2004 to 12.08.2034). The mining plan is for the period of 5 years (2019 to 2023) & production should not exceed 30205 Ts of RoM & 15,058 Ts of Limestone. The ultimate depth – 26.5 m BGL.
4. ToR under violation issued vide Lr.No.SEIAA-TN/F.No.6568/TOR-389/2018, Dated: 24.05.2018.
5. As per MoEF&CC O.M Dt:17.02.2020, the validity of ToR shall be 4 years for all the projects/activities and 5 years for River Valley and HEP Projects.
6. The EIA Notification dt:18.01.2021 states that

"...Notwithstanding anything contained in this notification, 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."

Hence, the ToR issued is valid till 23.05.2023.

7. Public Hearing Conducted on 23.05.2023.
8. EIA Report Submitted on 06.07.2023.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines (or) other guidelines stipulated by the MoEF & CC, remediation plan, natural resource augmentation and community resource augmentation. The SEAC also decided to


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request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

The sub-committee inspection report was placed in this 409th Meeting of SEAC held on 21.09.2023. The following details were observed during the site inspection:

About the Mine

Khairulabad Limestone Mine is one of the Leases of DCBL in PNR Group. Total extent of the Lease area is 2.25 Ha of own Patta Lands in S.F. Nos. 455/1 (0.390 Ha), 456/2 (0.695 Ha) and 456/3 (1.165 Ha) of Khairulabad Village, Ariyalur Taluk & District, Tamil Nadu. Mining Lease is granted for 30 Years from 13.08.2004 to 12.08.2034 vide RC No. 17783/MM4/2002 dated 27.01.2004. Lease Deed executed on 21.07.2004 and registered on 13.08.2004. The mining operations were commenced in this Lease on 25.08.2004 and stopped in February 2017 for want of Environmental Clearance. The present Review of Mining Plan (ROMP) & Progressive Mine Closure Plan has been approved by IBM, Chennai vide Letter No. TN/ALR/LST/ROMP-1523.MDS dated 13.11.2018 for the Period 2019-20 to 2023-24.

Basic need for going for EC

'No prior Environmental Clearance (EC) is required for the Mines with <5 Ha Extent, in the context of the Ministry of Environment, Forest and Climate Change (MoEF&CC), Office Memorandum (OM) No. J-11013/182/2012-IA-II(M) dated 04.01.2013. However, the existing Mining Lease requires EC as per MoEF&CC Notification SO 141(E) dated 15.01.2016 under EIA Notification 2006.

Further, as per the clarification given by MoEF & CC vide letter No. Z-11013/24/2017-IA.II(M), dated. 03.04.2017 which states that

"...all the mining leases (major mineral as well as minor mineral) operating in the country are required to obtain Environmental Clearance (EC) after 15.01.2016 as per the provisions contained in Environmental Impact Assessment Notification, 2006 as amended. Further, no mining lease shall operate without prior EC and all such mines (including less than 5 Ha) which were in operation before 15.01.2016 are required to


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stop their mining activity and apply to MoEFCC in Central Level/SEIAA at State Level.....”

“.....the mine leases which continue to operate without obtaining EC after 15.01.2016 shall be considered as Violation Cases and the leases which were in operation till 15.01.2016 and stopped production after 15.01.2016 shall be considered for EC as violation cases and the same shall be dealt in accordance with the violation policy under EIA Notification, 2006 as amended.....”

DCBL has operated Khairulabad Limestone Mine under RC No. 17783 after 15.01.2016 till January 2017 and produced 14,945 Tonnes of Limestone. Operating the Lease without EC is in Violation of EIA Notification 2006 (as amended). Though 12.5 months period is there after 15.01.2016, the production from the Mine was carried out during 2 months only in that period viz. March 2016 (9,590 Tonnes) & January 2017 (5,355 Tonnes) as per the letter certified by the AD (Mines). DCBL has applied for EC to SEIAA-TN vide Online Proposal No. SIA/TN/MIN/24620/2018 on 12.04.2018 i.e. within Window Period. Without EC, no Consents from TNPCB were obtained.

2. Chronology

Sl. No.	Sequence of events	Date
1	Date of TOR Application with Online Proposal No. SIA/TN/MIN/24620/2018 (within Window Period) – Considered under Violation Category	12.04.2018
2	TOR Meeting – 111 th Meeting held on	17.05.2018
3	Awarded TOR : SEIAA-TN/F.No.6568/TOR-389/2018	24.05.2018
4	Public Hearing Conducted	23.05.2023
5	EC Application vide Online Proposal No. SIA/TN/MIN/430142/2023	23.05.2023
6	Deliberation in 399 th Meeting held on	10.08.2023
7	Recommended for Site Visit by Sub Committee	


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3. Salient Features of the Project

Particulars	Details
Name of Project	Khairulabad Limestone Mine under Rc. No. 17783
Project Proponent	M/s. Dalmia Cement (Bharat) Limited
Location of mine	S.F. Nos. 455/1, 456/2 and 456/3 of Khairulabad Village, Ariyalur Taluk & District
Category of Project	B1
Proposed Capacity per Annum	6028 TPA ROM
Mine Lease Area	2.25 Ha
Life of Mine	45 years
Total Working Day/Year	330 days
Total Number of workers employed	6
Total Water Requirement & Source	2.5 KLD & Source – Mine Pit Seepage water
Latitude & Longitude	11°08'03.6" to 11°08'11.5" North Latitude & 79°07'47.2" to 79°07'58.5" E Longitude
Topo Sheet number	58 M/4
Eco Sensitivity	There are no eco sensitive areas National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, etc. (existing as well as proposed) within 10 km from the Mine. There are five Reserved Forests (RFs) in the Study Area. Karaivetti Bird Sanctuary is at 18 km in SW direction. There is an Archaeological/Fossil Museum at Varanavasi (8.5 km in SW). Kallankurichi Kaliyuga Varadharaja Perumal Temple is at 2.0 km in NW direction from the Lease.

Particulars	Details
Type of Land	Own Patta land
Method of Mining	The mining will be carried out by fully mechanized Conventional Opencast Mining Method with Drilling & Blasting. Excavated limestone will be transported by 30 Tonnes Taurus Tippers to Dalmiapuram & Ariyalur Cement Plants at a road distance of 19 km and 40 km respectively.
Bench parameters	Height 5.0 meters& Width 10 m
Depth of Mining	26.5 m BGL
Dimension of the Pit-Ultimate	169 (L) x 133 (W) x 26.5 (D) m
Nearest railway station	Ariyalur Railway Station is at 7.4 km in west.
Nearest Highway	SH-139 (Ariyalur-Kumbakonam Section) runs at 1.4 km (S),
Nearest air port	Trichy Airport is at 60 km in SW direction
Seismic zone	Zone-III
Cost of the project	Rs.10.00 Lakhs

4. Mining Lease Details

Sl. No	ML Grant Reference	Date	Extent, Ha	Validity		Remarks
				Years	From-To	


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1	The Commissioner of Geology and Mining's Proceedings RC No. 17783/MM4/2002	27.01.2004	2.25	30	13.08.2004 to 12.08.2034	Lease Deed executed on 21.07.2004 and registered on 13.08.2004
2	As per MMDR (Amendment) Act, 2015	-	2.25	50	12.08.2054	-

5. Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	First Mining Plan	2004-05 to 2008-09	TN/PBR/MP/LST/1497/SZ dated 09.09.2003
2	First Scheme of Mining	2009-10 to 2013-14	TN/ALR/LST/MS-496-/SZ dated 01.04.2009
3	Second Scheme of Mining	2014-15 to 2018-19	TN/ALR/LST/MS-1029.MDS dated 02.04.2014
4	Review of Mining Plan (ROMP) & Progressive Mine Closure Plan	2019-20 to 2023-24	TN/ALR/LST/ROMP-1523.MDS dated 13.11.2018

6. Details of Mining

Sl. No.	Particulars	Details
1	Method of mining	Conventional Opencast Method of Mining (with Drilling & Blasting)


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2	Geological reserve	7,36,000 Tonnes
3	Mineable reserve available- As on 01.10.2018	Limestone-48,000 Tonnes Ferruginous Limestone-2,22,000 Tonnes
4	Proposed production per Annum	6,028 Tonnes
5	Elevation range of the mine site	Top RL 80.5 M
6	Bench height	5 m
7	Bench width	10 m
8	Bench slope	10 – 15° to vertical
9	Proposed Depth of mining	26.5 m BGL (Bottom RL 54 m)
10	Life of mine	45 years

Past Production Details

Since commencement in 2004-05, about 4,90,048 Tonnes of Limestone was mined out from the Mine. The maximum production was 1,25,671 TPA during Year 2005-06.

Past Production Table (as per Proceedings)

Year	Production, Tonnes
2004-05	88,572
2005-06	1,25,671
2006-07	61,290
2007-08	36,356
2008-09	27,559
2009-10	31,305


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2010-11	27,718
2011-12	25,454
2012-13	26,478
2013-14	20,673
2014-15	4,027
2015-16	9,590
2016-17	5,355
2017-18	0
2018-19	0
2019-20	0
2020-21	0
2021-22	0
2022-23	0
Total	4,90,048

Proposed Production Details

It is proposed now to mined out 3,004 Tonnes Limestone & 3,024 Tonnes sub grade Ferruginous Limestone, thus, total 6,028 Tonnes ROM during balance ROM Period i.e. during 2023-24. Ore:OB Ratio is 1:0. Balance Reserves will be mined out during subsequent Plan Periods. Conceptual Stage Ultimate Pit depth will be 26.5 m BGL. As Ground Water-table in the vicinity is ranging between 40-45 m BGL, mining will not intersect the ground water-table. With the proposed production rate, the Life of the Mine is for another 45 Years.


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Proposed Production during ROMP Period


Period	Working RLs, m (3 rd Bench)	Top Soil, cu.m	OB, cu.m	Production, Tonnes			Mineral Rej., Tonnes	Ore:OB Ratio
				Limestone	Ferru- ginous Limestone	Total ROM		
2019-20	70-65.5	0	0	3,015	3,033	6,048	0	1:0
2020-21	70-65.5	0	0	3,003	3,042	6,045	0	1:0
2021-22	70-65.5	0	0	3,012	3,042	6,054	0	1:0
2022-23	70-65.5	0	0	3,024	3,006	6,030	0	1:0
2023-24	70-65.5	0	0	3,004	3,024	6,028	0	1:0
Total		0	0	15,058	15,147	30,205	0	1:0

Violation Category

DCBL has operated Khairulabad Limestone Mine under RC No. 17783 after 15.01.2016 till January 2017 and produced 14,945 Tonnes of Limestone. Operating the Lease without EC is in Violation of EIA Notification 2006 (as amended). Though 12.5 months period is there after 15.01.2016, the production from the Mine was carried out during 2 months only in that period viz. March 2016 (9,590 Tonnes) & January 2017 (5,355 Tonnes). The Violation Period was 9 months. The mining activities were stopped from February 2017 and there was no production from this Mine since then

Ecological Damage Assessment

Other than operating the Mine without required EC after 15.01.2016, there is no Violation in any other Statute. DCBL has received Demand Notice from the District Collector, Ariyalur for 100% cost of Mineral value of Limestone quantity produced without EC vide Rc. No. 346/G&M/2018 dated 26.07.2019 for Rs.60,34,910/-. Accordingly, DCBL has remitted Rs.60,34,910/- on 30.07.2019 vide TINTC9 Chalan through State Bank of India, Ariyalur.


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CONCLUSIONS:

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place (collectively for Khairulabad Limestone Mine is one of the Leases of DCBL in PNR Group. Total extent of the Lease area is 2.25 Ha of own Patta Lands in S.F. Nos. 455/1 (0.390 Ha), 456/2 (0.695 Ha) and 456/3 (1.165 Ha) of Khairulabad Village) during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived based on the CPCB Violation Norms (as calculated by the Proponent) is Rs. Rs.6,20,000/- which is higher than Environmental Compensation values of Rs. 3,75,000/- based on the EIA model prepared by the EIA coordinator and Rs. 2,11,100/- arrived by the SEAC-TN model and however, the M/s. Dalmia Cements (B) Limited has committed to include the CER amount of Rs. 10 lakhs into the Natural Resource Augmentation & Community Resource Augmentation Plans, it is recommended to pay the 'Environmental Compensation' value of Rs. 16,20,000/- for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan as given below:

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	4,80,000
2	Natural Resource Augmentation Plan	5,60,000
3	Community Resource Augmentation Plan	5,80,000
Grand Total		16,20,000

STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 16,20,000/- has to be given to TNPCB for successful implementation of the Schemes in a period of 3 years. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.


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2. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.
3. The PP shall furnish the 'No Objection Certificate' issued by the office of Director, Geology and Mining for the penalty levied by the District Collector Proc. vide Rc.346/G&M/2018, dated. 26.07.2019, for carrying out the quarrying operations during the violation period.

RECOMMENDATIONS

The SEAC Sub-Committee observed that the Mining of Limestone in an extent of 2.25 Ha of Patta Lands in S.F. Nos. 455/1 (0.390 Ha), 456/2 (0.695 Ha) and 456/3 (1.165 Ha) of Khairulabad Village, Ariyalur Taluk & District for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Limestone may be considered for the Annual Peak Production Capacity of 6,028 Tonnes by maintaining an ultimate pit depth of 26.5 m BGL in an extent of 2.25 Ha of Patta Lands in S.F. Nos. 455/1 (0.390 Ha), 456/2 (0.695 Ha) and 456/3 (1.165 Ha) of M/s. Dalmia Cements (B) Limited located in Khairulabad village, Ariyalur Taluk & District subject to the following conditions in addition to the normal conditions:

1. The grant of EC is subject to the production of the 'No Dues Certificate' from the State Government (i.e. Department of Geology & Mining) by the PP for the penalty levied by the District Collector.
2. The amount prescribed for Ecological remediation (Rs. 4.80 Lakhs), natural resource augmentation (Rs.5.60 lakhs) & community resource augmentation (Rs.5.80 Lakhs), totaling Rs. 16.20 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 16.20 Lakhs 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 below:


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Ecological Remediation Plan, Cost and Time Schedule

Sl. No.	Environmental Component	Remediation Plan / Activity Description	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
			I	II	III	
1	Air Quality & Ecology	Green Belt by Planting 300 Trees in Mine Area @ Rs.400 per Tree including its maintenance-100 Trees every year	1.00	1.00	1.00	3.00
2	Water Environment	Channelization & Utilisation of Surface Runoffs through Garland Drains towards water demand	0.30	0.30	0.30	0.90
3	Socio-economics & Public Health	Community/Public Buildings Maintenance and Conducting Medical Camps	0.30	0.30	0.30	0.90
Total		-	1.60	1.60	1.60	4.80

Natural Resource Augmentation Plan

Sl. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
		I	II	III	
1.	Providing Solar Street Lights to nearby Village @ Rs.20,000/- per Light, 1 per village, 3 villages	1.00	1.00	1.00	3.00
2.	Water Supply to the Village	1.00	0.80	0.80	2.60
Total		2.00	1.50	1.50	5.60


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Community Resource Augmentation Plan

Sl. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total. Rs. Lakhs
		I	II	III	
1.	Providing Furnitures to Kairulabad School	1.00	0.50	0.50	2.00
2.	Maintenance of School buildings, Upliftment of Toilet facilities, etc.	1.00	1.00	0.50	2.50
3.	Skill Development, Training of Village Women for self-employment, facilitating the educated youths	1.00	0.30	-	1.30
Total		3.00	1.80	1.20	5.80

3. 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 from the issue of EC. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The company shall produce the 'No Dues Certificate' obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC.
5. The PP shall send the 'Notice of Opening' to the Director of Mines Safety/Regional Inspector of Mines, DGMS/Chennai Region within 30 days after the execution of the lease deed.
6. The proposed action plan for green belt development shall be maintained in the dumps and haul roads of the overall project area.
7. As discussed with the Sub-Committee during the inspection, Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable carbon sequestration.
8. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.


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9. The PP shall carry out the scientific studies to assess the slope stability of the quarry wall benches and the stability of the waste dumps with prescribing the necessary stabilization measures within one year of the commencement of the mining operations, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Nagpur, NIRM Bangaluru, IIT Madras – Division of Geotechnical Engineering, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies comprising all the operating leases located in a cluster situation, on 'Optimisation of Controlled Blast Techniques for reducing the cumulative impact of blast-induced ground & air vibrations and flyrock caused due to the blasting operations' using of both NONEL and Electronic initiation systems to evaluate its performance for the implementation, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining and Fuel Research / Nagpur, NIRM, Bangaluru, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
11. The PP shall carry out the comprehensive hydrogeological studies within a period of two years from the commencement of the mining operations to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving anyone of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM-Bangaluru, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras – Department of Applied Geology, Chennai. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.



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12. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
13. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
14. 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 for the life of the project.
15. 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.

The above Sub-committee report was placed in this 409th Meeting of SEAC held on 21.09.2023. After detailed deliberation, SEAC carefully examined the proposal and the remarks and the recommendations made by the Sub-Committee. The SEAC have observed that the Mining of Limestone in an extent of 2.25.0 ha without prior EC is categorized under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the SEAC decided to recommend grant of Environmental Clearance under violation category for Mining of Limestone in an extent of 2.25.0 Ha at S.F. Nos: 455/1, 456/2 & 456/3 of Khairulabad Village, Ariyalur Taluk, Ariyalur District Tamil Nadu for the Annual Peak Production Capacity of 6,028 Tonnes by maintaining an ultimate pit depth of 26.5 m BGL subject to the following conditions in addition to the normal conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.


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2. The grant of EC is subject to the production of the 'No Dues Certificate' from the State Government (i.e., Department of Geology & Mining) by the PP for the penalty levied by the District Collector.
2. The amount prescribed for Ecological remediation (Rs. 4.80 Lakhs), natural resource augmentation (Rs.5.60 lakhs) & community resource augmentation (Rs.5.80 Lakhs), totaling Rs. 16.20 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 16.20 Lakhs 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 below:

Ecological Remediation Plan, Cost and Time Schedule

Sl. No.	Environmental Component	Remediation Plan / Activity Description	To be completed within one year from issue of EC.
1	Air Quality & Ecology	Green Belt by Planting 300 Trees in Mine Area @ Rs.400 per Tree including its maintenance-100 Trees every year	3.00
2	Water Environment	Channelization & Utilisation of Surface Runoffs through Garland Drains towards water demand	0.90
3	Socio-economics & Public Health	Community/Public Buildings Maintenance and Conducting Medical Camps	0.90
Total		-	4.80


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Natural Resource Augmentation Plan


Sl. No.	Activity Proposed	To be completed within one year from issue of EC.
1.	Providing Solar Street Lights to nearby Village @ Rs.20,000/- per Light, 1 per village, 3 villages	3.00
2.	Water Supply to the Village	2.60
Total		5.60

Community Resource Augmentation Plan

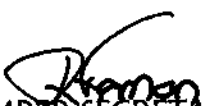
Sl. No.	Activity Proposed	To be completed within one year from issue of EC.
1.	Providing Furnitures to Kairulabad School	2.00
2.	Maintenance of School buildings, Upliftment of Toilet facilities, etc.	2.50
3.	Skill Development, Training of Village Women for self-employment, facilitating the educated youths	1.30
Total		5.80

3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year from the issue of EC. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The company shall produce the 'No Dues Certificate' obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC.
5. The PP shall send the 'Notice of Opening' to the Director of Mines Safety/Regional Inspector of Mines, DGMS/Chennai Region within 30 days after the execution of the lease deed.


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6. The proposed action plan for green belt development shall be maintained in the dumps and haul roads of the overall project area.
7. As discussed with the Sub-Committee during the inspection, Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable carbon sequestration.
8. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
9. The PP shall carry out the scientific studies to assess the slope stability of the quarry wall benches and the stability of the waste dumps with prescribing the necessary stabilization measures within one year of the commencement of the mining operations, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Nagpur, NIRM Bangaluru, IIT Madras – Division of Geotechnical Engineering, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies comprising all the operating leases located in a cluster situation, on 'Optimisation of Controlled Blast Techniques for reducing the cumulative impact of blast-induced ground & air vibrations and flyrock caused due to the blasting operations' using of both NONEL and Electronic initiation systems to evaluate its performance for the implementation, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining and Fuel Research / Nagpur, NIRM, Bangaluru, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be


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submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

11. The PP shall carry out the comprehensive hydrogeological studies within a period of two years from the commencement of the mining operations to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving anyone of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM-Bangaluru, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras – Department of Applied Geology, Chennai. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
12. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
13. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
14. 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 for the life of the project.
15. 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.

Agenda No: 409 – TA 02

(File No: 6172/2023)

Existing limestone mines over an extent of 1.21.5 Ha at S.F. No: 393/8 & 395/1(P), Uthappanaickanur Village, Usilampatti Taluk, Madurai District, Tamil Nadu by M/s. Suriya Industrial Minerals– For Environmental Clearance (Under Violation Category).


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SIA/TN/MIN/414344/2023 dated:12.01.2023)

The proposal was placed for appraisal in this 409th meeting of SEAC held on 21.09.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The Proponent, M/s. Suriya Industrial Minerals, has applied for Environmental Clearance for the proposed Existing limestone mines over an extent of 1.21.5 Ha located at S.F.No: 393/8 & 395/1(P), Uthappanaickanur Village, Usilampatti Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. ToR under violation was issued vide Lr. No SEIAA-TN/F.No.6172/ToR-324/2018 dated 10.05.2018.
4. Amendment ToR issued with public hearing vide Lr.No.SEIAA-TN/F-6172/SEAC-CXVIII/ToR-324(A)/2018 Dt.30.07.2018.
5. Earlier, the proposal (Online no. SIA/TN/MIN/ 43834/2018 dated:11.08.2021) was placed in 256th SEAC meeting held on 24.03.2022. Based on the presentation and documents furnished by the project proponent, SEAC noted that the proposed site was hit by G.O(MS) No. 295 dated 03.11.2021. Also, the proponent has not conducted the public hearing as directed in ToR issued under violation. Hence, the SEAC decided not to recommend the proposal.
6. In 352nd SEAC meeting, the proponent gave representation (SIA/TN/MIN/414344/2023 dated:12.01.2023) after conducting the public hearing.

Description	Old File	New File
File No	6172	6172
Online Proposal No for EC	SIA/TN/MIN/ 43834/2018 dated:11.08.2021	SIA/TN/MIN/414344/2023 dated:12.01.2023)

Based on the presentation and document furnished by the project proponent, SEAC decided to obtain the following additional particulars from the proponent:

- i) The PP shall furnish a letter from DFO on the proximity details of nearest RF


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and Wildlife Sanctuaries with respect to the proposed project site.

Meanwhile, the SEAC decided to constitute a sub-committee to make an on-site inspection to assess the present status of the proposed project, environmental settings and also to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation furnished by the PP. Accordingly, the Sub-committee member Thiru.D.Velazhagan, Member, SEAC-TN visited the project site for the evaluation of the site and to assess the ecological damage have inspected the quarry & other existing environmental settings on 14.02.2023.

The Inspection report was placed for deliberations in this 409th SEAC meeting. The details are as follows:

A. About the Mine:

Limestone Mine over an extent of 1.21.5 Ha, in S.F. Nos. 393/8 & 395/1(P), is located in Uthappanaickanur Village, Usilampatti Taluk, Madurai District. The area is marked in the survey of India (Sol) Toposheet No.58 F/16. The area lies between northern latitude from 10° 01'44.28" N - 10°01'50.69" N and eastern longitude from 77°47'57.97"E - 77°47'59.78"E. Initially the mining lease was granted in favor of M/s Suriya Industrial Minerals vide G.O. 3(D) No 70 Industries (MMD.2) Department, dated 13.08.1999 for a period of 20 Years (06.01.2000 – 05.01.2020). However as per the recent MMDR amendment Act 2015, the validity of the mining lease is extended up to 05.01.2050. The present ROMP including Progressive Mine Closure plan was approved by Indian Bureau of Mines, Chennai vide Letter No: TN/MDR/LST/ROMP – 1583.MSD dated 16.12.2019 for the plan period 2020-2021 to 2024-2025.

B. Chronology

Sl.No	Sequence of Events	Date
1.	Date of TOR Application with Online Proposal No.SIA/TN/MIN/23274/2018 (within Window Period)–Considered under Violation Category	02.04.2018


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2.	TOR Meeting-106 th SEAC Meeting	05.04.2018
3.	Awarded TOR: Lr.No. SEIAA-TN/ F.No.6172/TOR-324/2018	10.05.2018
4.	Public Hearing Conducted	12.07.2022
5.	EC Application vide Online Proposal No.SIA/TN/MIN/414344/2023	12.01.2023
6.	Deliberation in 352 th SEAC Meeting	08.02.2023
7.	Recommended for Site Visit by Sub-Committee	23.02.2023

C. Salient Features of the Project

Particulars	Details
Name of the Project	Uthappanaickanur Village Limestone Mine
Project Proponent	M/S SURIYA INDUSTRIAL MINERALS Proprietor: Mrs.S.Santhi
Location of Mine	S.F. Nos. 393/8 & 395/1(P), is located in Uthappanaickanur Village, Usilampatti Taluk, Madurai District, Tamil Nadu
Category of Project	B2
Proposed Production Capacity	Production: 6058 MT per annum
Mine Lease Area	1.21.5 Hectares
Balance Life of Mine	27 Years from 06.01.2023. As per the recent MMDR amendment Act 2015, the validity of the mining lease is extended up to 05.01.2050
Total Working Day/year	300 days
Total Number of workers employed	11
Total Water Requirement & Source	Total Water requirement is 3.0KLD. i) Drinking and utilities shall be 1.0KLD ii) Water for Dust suppression &


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	green belt shall be 2.0KLD.																
Latitude & Longitude	Latitude- 10° 01'44.28" N - 10°01'50.69" N Longitude- 77°47'57.97"E - 77°47'59.78"E																
Topo Sheet number	58 F/16																
Eco-Sensitivity	No protected areas notified under the wild life (Protection) Act, 1972, critically polluted area as notified by the CPCB from time to time. Forest: Vikkiramangalam Reserve forest – 297m - E Interstate Boundary: There is no interstate boundary located within 10 km radius. National Park/Wild life sanctuary: There is no wild life sanctuary/National park within 10 km radius from the project site area under the Wildlife (Protection) Act, 1972.																
Type of Land	Patta land																
Method of Mining	Manual Method of mining																
Bench parameters	Bench Height: 6m Bench Width: Not less than bench height Bench Slope: 60° (from horizontal)																
Depth of Mining	20m bgl																
Dimension of the Pit - Ultimate	<table><tr><td colspan="4">Pit Limit- Existing</td></tr><tr><td>Pit</td><td>L(m)</td><td>W(m)</td><td>D(m)</td></tr><tr><td>Pit-I</td><td>63m</td><td>62m</td><td>R.L.240-235m</td></tr><tr><td>Pit-II</td><td>28m</td><td>12m</td><td>R.L.240-230m</td></tr></table> <p>Ultimate Pit Depth-20m (Ultimate)</p>	Pit Limit- Existing				Pit	L(m)	W(m)	D(m)	Pit-I	63m	62m	R.L.240-235m	Pit-II	28m	12m	R.L.240-230m
Pit Limit- Existing																	
Pit	L(m)	W(m)	D(m)														
Pit-I	63m	62m	R.L.240-235m														
Pit-II	28m	12m	R.L.240-230m														

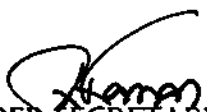
Water Table	28-30m bgl. Thus Mining will not intersect the ground water table.
Nearest Railway station	Usilampatti Railway Station – 6.4km – South
Nearest Highway	SH 154 –770m – West
Nearest Airport	Madurai - 36km –South East
Seismic zone	Zone-II, Low damage risk zone as per BMTPC, Vulnerability atlas Seismic zone of India IS: 1893-2002.
Cost of the project	Project Cost – Rs.10 Lakhs EMP Cost – 1.55 Lakhs

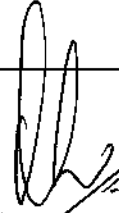
D. Mining Lease Details

Sl. No	ML Grant Reference	Date	Extent, Ha	Validity	From - To	Remarks
				Years		
1.	G.O. 3(D) No 70 Industries (MMD.2) Department.	13.08.1999	1.21.5 Ha	20	06.01.2000 – 05.01.2020	
2.	MMDR (Amend) Act, 2015	-			05.01.2050	50yearsvalidity

E. Mining Plan Details

Sl.No	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	Mining Plan	2000-01 to 2004-05	letter No. TN/MDR/MP/LST/901-MDS dated 09/1/96
2	1 st Scheme of Mining	2005-06 to 2009-10	letter No. TN/MDR/MS/LST/328-MDS dated 15/6/2005
3	2 nd Scheme of Mining	2010-11 to 2014-15	letter No. TN/MDR/MS/LST/604-MDS dated 16.11.2011


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4	3 rd Scheme of Mining	2015-16 to 2019-20	letter No. TN/MDR/LST/MS-1210 dated 17.04.2015
5.	Review of Mining Plan	2020-21-2024-25	Letter No.TN/MDR/LST/ROMP – 1583.MDS datd 16.12.2019

F. Details of Mining

Sl.No	Particulars	Details
1	Method of Mining	Manual Method of Mining with small dia drilling and blasting
2	Geological Reserve	1,25,244 MT (80%)
3	Mineable Reserve available	58,968 MT (80%)
4	Proposed Production	Production: 6059 MT/annum or 30294 MT for five years
5	Elevation range of the Mine site	240m above MSL
6	Bench Height	6m
7	Bench Width	Not less than bench height
8	Bench Slope	60°
9	Proposed Depth of Mining	20m bgl
10	Life of Mine	20 Years. As per the recent MMDR amendment Act 2015, the validity of the mining lease is extended up to 05.01.2050

G. Past Production Details

The year wise productions on limestone for the past years are given below

Year	Planned Production (MT)	Achieved Production (MT)
1999-2000 (20.02.2000)	1000	350
2000-01	3000	740
2001-02	6000	750
2002-03	6000	810


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2003-04	6000	116
2004-05	6000	270
Total	28000	3036
2005-06	1000	340
2006-07	1000	350
2007-08	1000	207.580
2008-09	1200	374.850
2009-10	1200	245.680
Total	5400	1518.11
2010-11	1000	240
2011-12	1000	300
2012-13	1000	700
2013-14	1000	759.5
2014-15	1000	850
Total	5000	2849.5
2015-16	2000	1003
2016-17	2000	759
2017-18	2000	Nil
2018-19	2000	--
2019-20	2000	--
Total	10000	1762
Grand Total	48,400	9165.61

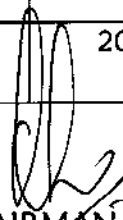
The above production is as per approved SOM and ROMP by IBM

H. Proposed Production Details

Year wise Development for 2020-2025

Year Wise production and Development								
Year	L(M)	W(M)	D(M)	Volume(M3)	B.D	Qty(MT)	Production @ 80% MT	Rejects @20%(MT)
	8	17	3	408	2.5	1020	6000	204



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2021-21	36	24	3	2592	2.5	6480		1296
2021-22	36	16	3	1728	2.5	4320	6048	864
	27	12	4	1296	2.5	3240		648
2022-23	27	33	2	1782	2.5	4455	6060	891
	13	16	6	1248	2.5	3120		624
2023-24	53	9	3	1431	2.5	3577.5	6042	716
	53	10	3	1590	2.5	3975		795
2024-25	24	32	4	3072	2.5	7680	6144	1536
Total				15147		37867.5	30294	7574
Development – Over Burden								
2021-22	36	3	2	216	1.5	324		324
	15	5	2	150	1.5	225		225
2022-23	23	23	2	1058	1.5	1587		1587
Total				1424		2136		2136
Grand Total				16571	---	40003.5	30294	9710

1. Violation Category

The PP has operated Uthappanaickanur Limestone Mine during 15.01.2016-10.01.2017(Violation period) and produced less than 1370 MT of limestone. Moreover, the method of mining for this limestone mine is manual since 06.01.2000. So there was no damage caused to environment due to the


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operation of this mine. Additionally, the proponent has planted more than 100 number of trees such as Coconut tree, Teak tree, Neem tree, Sapodilla trees, Jack fruit tree etc in adjacent to mining lease. Lease is not in operation since 10.01.2017.


Sl. No	Statute Requirement	Yes/ No	Violation Status	Remarks
1	Valid EC	X	Operating the Lease after 15.01.2016 for a Production of less than 1370MT Limestone leads to Violation. Applied for EC on 02.04.2018	EC was not required for this Mine(<5Ha) up to 15.01.2016.
2	Valid CTO	X	No CTOs were obtained	Violation
	Valid Mining Plans/Schemes	✓	IBM has accorded the periodic approvals for Mining Plan/Schemes of the Mine till 2025.	There is No Violation in this regard
3	Forest Clearance	-	No Forest Land involved	Not Applicable
4	Transport Permits		PP has obtained the required Transport Permits.	There is No Violation in this regard.
5	Any Other Violation	-	Nil	Nil

OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION


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1. The Limestone Mining Lease of M/S Suriya Industrial Minerals over an extent of 1.21.5Ha is located in Uthappanaickanur village in Usilampatti Taluk, Madurai District.
2. As submitted and verified, the mining Lease was under G.O. 3(D) No 70 Industries (MMD.2) Department, dated 13.08.1999 for a period of 20 years. The lease deed was executed on 06.01.2000 and will expire on 05.01.2020. The mine was opened on 20.02.2000. However as per the recent MMDR Amendment Act 2015, the validity of the mining lease is deemed to be extended up to 05.01.2050. However, the PP have not obtained the approval letter for the deemed extension of lease from the competent authority for the period beyond 05.01.2020.
3. A copy of the present Review of Mining Plan (ROMP) duly approved by IBM vide Letter: TN/MDR/LST/ROMP – 1583.MSD dated 16.12.2019, is provided or planned production and development activities for the current five years scheme plan of 2020-21 to 2024-25.
4. No 'Consent to Operate' (CTO) from TNPCB was obtained for the Mine.
5. The Lease is located closer to the State Highway-154 which runs at a distance of 770m from the Lease.
6. Further, it has been observed that few habitations are located at the distance of 300 m from the Lease in SW direction.
7. There are no any other mines located within 500m radius of the M/S Suriya Industrial Minerals Limestone Mine.
8. The Lease is fenced with barbed wire in all sides and boundary pillars marked are noticed with geo Coordinates.
9. Mine is not in operation but the pit is partially filled with rain water.
10. From the records, it is noted that the mine is not in operation from 10.01.2017.
11. The Mine office, Rest Shelter, First Aid facility, are available adjacent to mining lease area in NE direction of the quarry.
12. No Garland drains are appeared around the pit at present as the existing one is covered completely with soil & boulders due to non-operation and however it will be renovated (or) constructed as per the design given in the AMP are covered with soil.


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13. It has been noted that the Top Soil is used for the tree plantation and no OverBurden dump is existing within the lease area.
14. Developed Green belt is noticed in around mine offices, Rest Shelter, First Aid facility. However, PP has now planted the fresh saplings along the peripheries of the Lease.
15. The Project proponent has appointed a Qualified First Class Mines Manager, Second Class Mines Manager, Mine Mate and Geologist who are available for discussions during the Inspection.
16. It has been observed that an environmentally friendly Mining activity using rippers/non-explosive demolition chemical agents/rock breakers used to break the material wherever is required. But mostly, a simple manual method was carried out without using excavator directly to extract the mineral in the Lease during the Violation Period upto a depth of 10 m BGL due to loose nature of earth
17. It has been found that no ground water-table intersection was encountered.
18. Mineral transportation route exists to reach SH-154 for the transportation of minerals which goes through the villages.

Status of Mining Operation

The Mining activities were stopped from 10.01.2017 and there was no production from this Mine since then. The Regional Controller of Mines, Indian Bureau of Mines (IBM), Chennai has accorded its Approval periodically for Mining Plans/Schemes. For present Review of Mining Plan (ROMP) for the Period 2020-21 to 2024-25 has been given approval vide Letter No. TN/MDR/LST/ROMP – 1583.MSD dated 16.12.2019. Consents to Operate from Tamil Nadu Pollution Control Board (TNPCB) are to be obtained.

Application of CPCB Guidelines by Proponent

During the Violation Period, impacts on the Environmental Components viz. Air, Water, Land, Biological and Socio-economics Environment are assessed based on the Norms specified by the Central Pollution Control Board (CPCB) to implement "Polluter Pays" Principle and to levy Environmental Compensation for Restoration of


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Environmental Damages ('Report of the CPCB In-house Committee on Methodology for Assessing Environmental Compensation and Action Plan to utilize the Fund' based on the Agenda Note of 63rd Conference of Chairman and Member Secretary of PCBs/Committees held on 18.03.2019).

However, as per CPCB Guidelines, the Maximum Environmental Compensation shall be for 68 days of Violation will be Rs. 6,80,000.

(* No. of effective working days is 68 @20MT per day for target production as per approved ROMP is 6059 MT/300 days)

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	2,30,000
2	Natural Resource Augmentation Plan	2,50,000
3	Community Resource Augmentation Plan	4,00,000*
Grand Total		8,80,000

*However, PP had already committed to spend Rs. 2 lakhs as a part of Community Resource Augmentation activities to develop sanitary, library facility and tree planting in and around the Govt High school Uthappanaickanur Village, Madurai District.

Conclusions:

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place during the Violation Period, the Sub-Committee is of the opinion that the Environmental Compensation of Rs. 6,80,000/- arrived based on CPCB Violation Norms is higher than the other two estimations (i) Rs.50,000/- based on the EIA Model arrived by the EIA Coordinator and (ii) Rs.1,45,800/- arrived on SEAC Model. However, the value of Rs.8,80,000/- inclusive of Rs.2,00,000/- as committed by the PP earlier (as a part of CER) must be compensated for Ecological Damage Remediation and Natural & Community Resource Augmentation Plan.

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	2,30,000

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2	Natural Resource Augmentation Plan	2,50,000
3	Community Resource Augmentation Plan	4,00,000
Grand Total		8,80,000


STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs.8,80,000/- has to be given to TNPCB for successful implementation of the Schemes in 1 year period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.
3. The PP shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining.

RECOMMENDATIONS


The SEAC Sub-Committee observed that the Mining of Limestone in an extent of 1.21.5 Ha in Survey nos. 393/8 & 395/1(P), in Uthappanaickanur Village, Usilampatti Taluk, Madurai District of Tamil Nadu for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Limestone in an extent of 1.21.5Ha in Survey nos. 393/8 & 395/1(P), in Uthappanaickanur Village, Usilampatti Taluk, Madurai District of Tamil Nadu may be considered subject to the following conditions in addition to the normal conditions:

1. The amount prescribed for Ecological remediation (Rs.2.30 Lakhs), natural resource augmentation (Rs.2.50 lakhs) & community resource augmentation (Rs.4.00 Lakhs), totaling Rs. 8.80 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 8.80 Lakhs 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.


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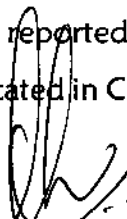
2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year from the issue of EC. If not, the bank guarantee will be forfeited to TNPCB without further notice.
3. The project proponent 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) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
4. The PP shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining and submit the same to SEIAA before grant of EC, if not produced.
5. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC notification No. S.O. 1807(E) Dt12.4.2022.
6. The proposed action plan for green belt development shall be maintained in 33 % of the overall project area and accordingly the plantation shall be carried out in 1.37 Ha including the dumps and safety zone areas of mine, and along the haulroads leading to the villages.
7. The PP shall install the Environmental Management Cell headed by the statutory First/Second Class Mines Manager appointed for the mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
8. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.


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9. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia& 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
10. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
11. The Project Proponent shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
12. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
13. Being an existing mines, safty practices as per the provisions of Metalliferous Mines Regulation ,1961 has to be adopted including controlled blasting techniques using NONEL initiation systems.
14. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
15. The PP shall submit a Slope Stability Action Plan approved by the concerned AD (Mines) to the DEE/TNPCB for the regularisation of present conditions and also to construct the benches with proper geometry as stipulated in accordance with the MMR 1961
16. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.



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17. The proponent shall create a separate bank account and shall deposit the cost allocated for the committed EMP activities every year and the said expenditure details spent on the committed EMP activities shall be maintained & periodically submitted to TNPCB.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
20. 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.

The above Sub-committee report was placed in this 409th Meeting of SEAC held on 21.09.2023. After detailed deliberation, SEAC carefully examined the proposal and the remarks and the recommendations made by the Sub-Committee. The SEAC have observed that the Mining of Limestone in an extent of 1.21.5 ha without prior EC is categorized under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the SEAC decided to recommend grant of Environmental Clearance under violation category for Mining of Limestone in an extent of 1.21.5 Ha at S.F. Nos: 393/8 & 395/1(P), Uthappanaickanur Village, Usilampatti Taluk, Madurai District Tamil Nadu for the Annual Peak Production Capacity of ROM of 7680 MTs up to the Ultimate pit depth of 20 m below ground level for the Life of the mine of 5 years only subject to the following conditions in addition to the normal conditions:


1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.


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2. The PP shall remit 100% Penalty amount imposed as per the district collector/AD mines and submit receipt before SEIAA for carrying out mining for the period 15.01.2016 to 10.01.2017 (or) more. The PP shall produce the 'No Dues Certificate' obtained from the State Government i.e., Department of Geology & Mining to the SEIAA before grant of EC, if already not produced.
3. 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) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
4. The amount prescribed for Ecological remediation (Rs.2.30 Lakhs), natural resource augmentation (Rs.2.50 lakhs) & community resource augmentation (Rs.4.00 Lakhs), totaling Rs. 8.80 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 8.80 Lakhs 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.
5. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year from the issue of EC. If not, the bank guarantee will be forfeited to TNPCB without further notice.
6. The PP shall send the 'Notice of Opening' to the Director of Mines Safety/Regional Inspector of Mines, DGMS/Chennai Region within 30 days after the execution of the lease deed.
7. The proposed action plan for green belt development shall be maintained in the dumps and haul roads of the overall project area.
8. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look


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into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.

9. The PP shall carry out the scientific studies to assess the slope stability of the quarry wall benches and the stability of the waste dumps with prescribing the necessary stabilization measures within one year of the commencement of the mining operations, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Nagpur, NIRM-Bangaluru, IIT Madras – Division of Geotechnical Engineering, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. The PP shall carry out the comprehensive hydrogeological studies within a period of two years from the commencement of the mining operations to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving anyone of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM-Bangaluru, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras - Centre for Environmental Sciences (CES), Chennai. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
12. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.


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13. 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 for the life of the project.
14. 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.

Agenda No: TA - 03

(File No: 10057/2023)

Proposed Gravel Quarry over an extent of 3.55.0Ha SF.No.248/2, 248/3 and 250/5 of Sembanur Village, Karaikudi Taluk, Sivagangai District by Thiru. S. Subramanian - For Environmental Clearance. (SIA/TN/MIN/430653/2023 dt:24.05.2023)

The proposal was placed in 392nd SEAC Meeting held on 14.07.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Thiru. S. Subramanian has applied for Environmental Clearance for the proposed Gravel Quarry over an extent of 3.55.0Ha SF.No.248/2, 248/3 and 250/5 of Sembanur Village, Karaikudi Taluk, Sivagangai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication has been issued for a period of 1 Year. The approved mining plan is approved for the period of 1Year with the production quantity of not to exceed 41696m³ of Gravel and the depth of mining is 2.0m BGL.

Sl. No	Particulars		Observation
1	Placed in 392 nd SEAC meeting & Minutes		Based on the presentation and documents furnished by the project proponent, SEAC decided to


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			recommend the proposal for the grant of Environmental Clearance for the period of 1 year and the quantity shall not exceed 32264 Cu.m of gravel for an ultimate depth of 2m BGL only from the pit-1 (Sf.No.248/2, 248/3) subject to the standard conditions & normal Conditions stipulated by MOEF & CC and Annexure -1, in
2	643 rd SEIAA meeting Minutes	ADS-By SEIAA	<p>After detailed discussions, the authority noted that the proposed mining area is surrounded farm lands. Hence, the authority decided to defer and seek additional particulars as follows</p> <ol style="list-style-type: none"> 1. The pp shall submit NOC from agriculture department that the proposed mining lease area is not fit for agriculture purpose and NOC for local Panchayat. 2. The PP shall furnish details of impacts and mitigation Pattern, water table around the proposed mining area. 3. The PP shall furnish details of quantity of topsoil and details of utilization of the same within proposed mining area.


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			4. Ads raised by SEIAA & ADS reply submitted to SEIAA – 19.08.2023.
3	392 nd SEAC minutes	CER Name change request	392 nd SEAC Minutes of Meeting, the school's name is noted as Kunnathupatti Village. Hence, I request you to kindly consider the school's name as per the CER affidavit, which is sembanoor Village

The proposal was again placed in 409th SEAC meeting held on 21.09.2023. SEAC after carefully examining the request given by the proponent, decided to accept the proponent's request to change the village name for the proposed CER activity.

Description	AS PER 392 nd SEAC Minutes	Request accepted and recommended
CER – village name	Kunnathupatti Village	Sembanoor Village

1. All other conditions as stipulated in 392nd SEAC minutes remain unaltered.


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ANNEXURE-I

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

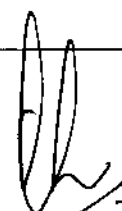
1. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two to three rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
2. The proponent shall construct and maintain proper fencing all around the 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.


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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.

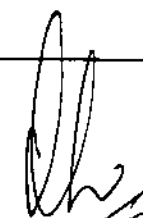

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GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

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.

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


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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.


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- 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.


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- 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.
- 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 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.


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- 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

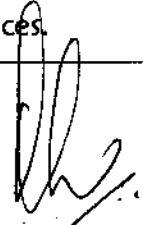
1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:
 - (i) Original pit dimension
 - (ii) Quantity achieved Vs EC Approved Quantity
 - (iii) Balance Quantity as per Mineable Reserve calculated.
 - (iv) Mined 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.


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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 the 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.


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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?
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

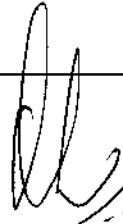
encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

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
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.


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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.
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


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Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

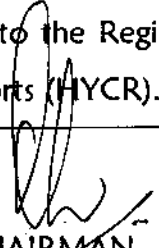
9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

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, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
5. Sand, murram, 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).

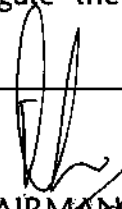

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5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration 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.


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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.


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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 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 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.


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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.



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ANNEXURE III

Standard Terms of Reference (ToR) for EIA/EMP report for projects/activities requiring environment clearance 3(a): Standard Terms of Reference for conducting Environment Impact Assessment study for Metallurgical Industries (ferrous & non-ferrous) projects and information to be included in EIA/EMP report

A. STANDARD TERMS OF REFERENCE (TOR)

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

x. Expansion/modernization proposals:

- a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing existing operation of the project from SPCB shall be attached with the EIA-EMP report.
- b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4) Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State. Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)
- iii. Details with respect to option analysis for selection of site
- iv. GPS Co-ordinates of all four corners of the site.
- v. Google map-Earth downloaded of the project site.

- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
 - vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
 - viii. Land use break-up of total land of the project site (identified and acquired), government/ private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
 - ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
 - x. Geological features and Geo-hydrological status of the study area shall be included.
 - xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
 - xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
 - xiii. R&R details in respect of land in line with state Government policy
- 5) Forest and wildlife related issues (if applicable):
- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
 - ii. Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)
 - iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife

6) Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.

- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

7) Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyorcum- rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included.

Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.

- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District

Disaster Management Plan.

8) Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre-placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above-mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved.
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9) Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process/ procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms /conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of

this system may be given.

- iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

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

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON-FERROUS)

1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
3. Details on installation/activation of opacity meters with recording with proper calibration system
4. Details on toxic metals including mercury, arsenic and fluoride emissions
5. Details on stack height requirement for integrated steel


6. Details on ash disposal and management -Non-ferrous metal
7. Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc.
8. Raw materials substitution or elimination
9. Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation
10. Details on Holding and de-gassing of molten metal from primary and secondary aluminium, materials pre-treatment, and from melting and smelting of secondary aluminium
11. Details on solvent recycling
12. Details on precious metals recovery
13. Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization.
14. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
15. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
16. Trace metals in waste material especially slag.
17. Plan for trace metal recovery
18. Trace metals in water


C. ADDITIONAL TOR FOR INTEGRATED STEEL PLANT

1. Iron ore/coal linkage documents along with the status of environmental clearance of iron ore and coal mines
2. Quantum of production of coal and iron ore from coal & iron ore mines and the projects they cater to. Mode of transportation to the plant and its impact
3. For Large ISPs, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
4. Recent land-use map based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quick bird,

Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.

5. Respirable Suspended particulate matter (RSPM) present in the ambient air must be analysed for source analysis - natural dust/RSPM generated from plant operations (trace elements). The RSPM shall also be analysed for presence of poly-aromatic hydrocarbons (PAH), i.e. Benzene soluble fraction, where applicable. Chemical characterization of RSPM and incorporating of RSPM data.
6. All stock piles will have to be on top of a stable liner to avoid leaching of materials to ground water.
7. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
8. Plan for slag utilization
9. Plan for utilization of energy in off gases (coke oven, blast furnace)
10. System of coke quenching adopted with justification.


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Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சள், ஆனந்தவந்தியம்னி
3	<i>Albizia lebeck</i>	Vaagai	வாகை
4	<i>Albizia anara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Parai	பனை
10	<i>Butea monosperma</i>	Murukkamarai	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Serakondrai	சரக்கொண்டை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொண்டை
15	<i>Chloroxylon swietenia</i>	Purasamaram	பூசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கொங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூலி
18	<i>Creteva adansoni</i>	Mavalingum	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebennu</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amphissima</i>	Kallitai	கல் இச்சி
24	<i>Hibiscus tiliaceus</i>	Aatrupoovarasu	ஆத்ரப்புவாசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயிலி
27	<i>Lannea 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	விளா மரம்
31	<i>Litsea glutinos</i>	Pisinattai	பிளம்பை, பிசிப்பை
32	<i>Madhuca longifolia</i>	Illupai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பழை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachi	நச்சுமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	நடு முன்னை
42	<i>Premna tomentosa</i>	Malapoovarasu	மலை பூஞ்சு
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Putranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Satodora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புகள் சோபுகாய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தாங் கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்ட்ரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தாந வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கோடுக்காபுலி


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—கருங்கம்

கொண்டுவில் குவாழி செலுப்புகளுக்குள்ளே கற்றுத்தழைத் தனியாகப் பிழைக்கத் திறந்தவர்களுக்கு உட்பட்டு வழங்கப்பட்டுவந்தது எனவும், தேதி ரொட்டு கற்றுத்தழைத் தனியாகப் பிழைக்கத் திறந்தவர்களுக்கு உட்பட்டு வழங்கப்பட்டுவந்தது எனவும், தேதி வளம் செலுத்தக்கூடியதாக உட்பட்டது.

பகலாக பழுதி வளர்ச்சி கொம்பாட்டுக்களை அளக்கத் திட்டம்	குவாசியின் எல்லையைச் சுற்றி வேலி அமைக்க வேண்டும் அளவப்பாளையின் ஆழம் தாழ்பாட்டி திறிசுத்து மீட்டித்து மிதமல் இடக்க வேண்டும் சுற்றியில் ஈரம் ஏற்படாதவாறு அளக்க பாசிகளை தெறிசெக்சைன் வேண்டும்.
	வாசையங்கள் செல்லும் பாதையில் ஈரம் ஏற்படாத அளவிற்கு தண்ணீர்த் குழாய்களை தண்ணீர் வசிகளில் குழாய்கள் அமைப்பதற்கு தெளிக்க வேண்டும்.
தட்டாட்டு பழையதிகப்பல வேலியை அளக்க எண்ணிக்கை:	இளமச்சல் அளவைகள் துரிதமாகப் பட்டாடி குழாய்களில் குவாசியின் எல்லையை சுற்றி அடத்தியைப் பகலாக பழுதியை ஏற்படுத்த வேண்டும்.
அளக்கத்தில் வெடி எவ்வளவுகொடுக்க திட்டமிட்டிருக்க ஏற்படாதவாறு மற்றும் அளக்க பாதையிலும் பாதையிலும் தட்டாட்டைகளை உண்டிப்பாக வேலிப்படுத்தப்பட வேண்டும்.	
அளக்கத்தில் இருந்து ஏற்படும் இளமச்சல் அளவு 25 செ.மீ.யில் (25A) அளவிற்கு வெலி ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை கொடுக்க வேண்டும்.	
அளக்க சட்டி விதிக்க ஈரம் கீழ் அளக்கத்தில் உண்டி பாதையிலுக்கு தகுந்த பாதையிலும் கட்டுவதில் வளர்ச்சியுடன் கொடுக்கப்படும் வளர்ச்சியை வேலி தர வேண்டும்.	
மிதமல் அளவு பதிலுக்கு வளர்ச்சி வளர்ச்சி செல்லும் எல்லையை தெரித்து தளம் பழையதிக வேண்டும்.	
அளவப்பாளையின் அளவில் உண்டி மிதமல் பாதையின் மற்றும் திட்டமிட்ட பாதையின் பாதையிலும் உண்டி.	
திட்டமிட்ட பாதையின் பாதையிலும் இருப்பதற்கு துரித வேலி வளர்ச்சி திட்டமிட்ட திட்டமிட்ட வேலி வேண்டும்.	
அளக்கத்திலிருந்து வளர்ச்சி வேலிக்குள் எடுத்து செல்லும் மிதமல் அளவுக்கு எந்த திட்டமிட்டவாறு ஏற்படுத்தப்படும் பாதையிலும் மற்றும் அளவுக்கும் பாதையிலும் வளர்ச்சி வளர்ச்சியை இடக்க வேண்டும்.	
அளவப்பாளையின் குவாசியை உண்டி அளவு திட்டமிட்ட திட்டமிட்ட அளவு வேலி வேண்டும்.	
அளக்க தட்டாட்டைகளை குவாசியின் அளவப்ப பழுதி மற்றும் அளக்க தட்டாட்டைகளை இடவாறு ஏற்படக்கூடிய வேலி ஏற்பட பழுதியைப் பழுதிக்குள்ளே செல்லு தளவளக்க வளர்ச்சியில் ஆய்வதற்கில் வளர்ச்சிக்கு ஏற்ற வளர்ச்சி பகலாக பழுதியை உண்டி வேண்டும்.	
குவாசியை திட்டமிட்டவாறு துரித வேலி வேலி (http://www.mic.in) எந்திர இளவப்பாதையின் பாதையிலும் வேலி ஏற்படுத்த அளவுக்கும் சந்தி பாதையிலும் செல்லவதில் உண்டி அளவுக்கும் மற்றும் வளர்ச்சி அளவப்பதற்கில் குவாசியைத் தட்டி அளவவை: 94 - 2822325 (அளவு) திட்டமிட்ட பாதையிலும் வளர்ச்சியில் வளர்ச்சி அளவுக்கும் வேலி வேண்டும்.	

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