

State Expert Appraisal Committee (SEAC)

Minutes of 405<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 31.08.2023 (Thursday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building & Construction projects and Mining Projects.

Confirmation of Earlier Minutes

The minutes of the 404<sup>th</sup> SEAC meeting held on 25.08.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 405-01

(File No.5773/2016)

Proposed Earth Quarry lease over an extent of 0.43.0 Ha at S.F. No. 194/7 of Vairavankulam Village, Kadayanallur Taluk, Tirunelveli District, Tamil Nadu by Thiru. B. Sathish – For Environmental Clearance. (SIA/TN/MIN/170042/2020 dated:28.08.2020)


The proposal was placed in the 405<sup>th</sup> meeting of SEAC held on 31.08.2023. 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. B. Sathish has applied for Environmental Clearance for the Proposed Earth Quarry lease over an extent of 0.43.0 Ha at S.F. No. 194/7 of Vairavankulam Village, Kadayanallur Taluk, Tirunelveli District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and details furnished by the project proponent, the SEAC noted that the proposed project site lies within the ESZ of Nellai Wildlife Sanctuary.

As per MoEF&CC S.O.2794(E) dated.02.08.2019, Notification pertaining to Nellai Wildlife Sanctuary, Under Para 4 – List of activities prohibited or to be regulated within Eco-Sensitive Zone, Commercial Mining, stone quarrying and crushing units are listed under Prohibited activities.

  
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Further, The extracts from the Judgement IN THE SUPREME COURT OF INDIA CIVIL ORIGINAL JURISDICTION I.A. No.1000 of 2003 (Recommendation of CEC dated 20.11.2003) In the Matter of: WRIT PETITION (CIVIL) NO. 202 of 1995 In Re: T.N. Godavarman Thirumulpad Versus Union of India and Ors delivered on 3<sup>rd</sup> June 2022 states that

*"...44. We accordingly direct:-*

*(a) Each protected forest, that is national park or wildlife sanctuary must have an ESZ of minimum one kilometre measured from the demarcated boundary of such protected forest in which the activities proscribed and prescribed in the Guidelines of 9th February 2011 shall be strictly adhered to. For Jamua Ramgarh wildlife sanctuary, it shall be 500 metres so far as subsisting activities are concerned.*

*(b) In the event, however, the ESZ is already prescribed as per law that goes beyond one kilometre buffer zone, the wider margin as ESZ shall prevail..."*

Besides, the MoEF & CC Guidelines for seeking recommendations of Standing Committee of NBWL for activities in Protected areas vide F. No. 6-30/2019-WL, dated. 06.05.2022 states that

*"...1.6 ACTIVITIES INSIDE ECO-SENSITIVE ZONES*

*Notifications of ESZ specify the activities which are prohibited, regulated and promoted in the ESZ. Proposals for prohibited activities should not be forwarded for consideration of SCNBWL..."*

Hence, the Committee decided not to recommend the proposal for grant of Environmental Clearance since the proposed quarry activity is prohibited within the Eco-Sensitive Zone of Nellai Wildlife Sanctuary.

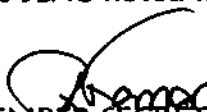
Agenda No: 405-02

(File No.9308/2016)

Proposed rough stone & gravel quarry lease over an extent of 2.39.0 Ha at S.F.No. 70/2 & 70/3 of Myleripalayam village, Madukkarai Taluk, Coimbatore District, Tamilnadu by Tvl.Sri Vetri Velavan Blue Metals – For Environmental Clearance. (SIA/TN/MIN/426688/2023 dated.21.04.2023)

The proposal was placed in the 405<sup>th</sup> meeting of SEAC held on 31.08.2023. The details of the project furnished by the proponent are given in the website ([parivesh.nic.in](http://parivesh.nic.in)).

The SEAC noted the following:

  
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1. The project proponent, Tvl. Sri Vetri Velavan Blue Metals has applied for Environmental Clearance for the Proposed rough stone & gravel quarry lease over an extent of 2.39.0 Ha at S.F.No. 70/2 & 70/3 of Myleripalayam village, Madukkarai Taluk, Coimbatore District, Tamilnadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9308/SEAC/ToR-1235/2022 dated.30.08.2022.
4. Public hearing was conducted on 30.01.2023.
5. Earlier, the proposal was placed for appraisal in the 386<sup>th</sup> SEAC meeting held on 23.06.2023. Based on the presentation and details furnished by the project proponent, the committee after detailed discussions decided to consider the proposal after the receipt of following details from the project proponent:
  - i) The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m (iv) 300 m (v) 400m & (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, village roads, etc.
  - ii) The proponent shall furnish photographs of adequate fencing, green belt of 2 to 3 rows of vegetation along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
  - iii) The proponent shall also furnish details/photographs of the garland drains provided.
6. The proponent vide letter dated. 20.07.2023 furnished a reply to the above queries raised in the 386<sup>th</sup> SEAC meeting.
7. In this regard, the proposal is again placed in this 405<sup>th</sup> SEAC meeting.
8. The salient features of the proposal are as follows:

File No	9308	Category	1(a)
	SIA/TN/MIN/426688/2023		B1
Sl. No	Salient Features of the Proposal		

  
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1.	Name of the Owner/Firm	:	Tvl. Sri Vetri Velavan Blue Metals Door No. 16/133 F, Sathy Main Road East, Saravananpatti, Coimbatore District – 641 035.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry	
3.	S.F Nos. of the quarry site with are break-up	:	70/2, 70/3.	
4.	Village in which situated	:	Myleripalayam	
5.	Taluk in which situated	:	Madukkarai	
6.	District in which situated	:	Coimbatore	
7.	Extent of quarry (in ha.)	:	2.39.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°52'0.69"N to 10°52'7.60"N 77° 2'4.77"E to 77° 2'10.15"E	
9.	Topo Sheet No.	:	58F/1	
10.	Type of mining	:	Open cast semi-mechanized mining	
11.	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	8,67,890m <sup>3</sup>	-
	Minnable Resources m <sup>3</sup> (RoM)	:	Rough Stone – 3,10,791m <sup>3</sup> & Reject – 16,357m <sup>3</sup>	-
		:	Gravel - 38,618m <sup>3</sup>	-
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone – 62,643m <sup>3</sup> , Reject - 3282	-
	:	Gravel – 24,098m <sup>3</sup>	-	

  
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	Ultimate Depth in meters	:	34m Below Ground Level	-
13.	Depth of water table	:	40 - 42m Below ground Level	
14.	Man Power requirement per day:	:	19 Nos.	
15.	Water requirement:	:	5.0 KLD	
	1. Drinking & Utilities		1.5 KLD	
	2. Dust suppression & Green belt		3.5 KLD	
16.	Power requirement	:	-	
17.	Precise area communication approved by the Assistant Director, Dept. of Geology and Mining with date	:	Rc.No.1431/Mines/2021, Dated:13.05.2022.	
18.	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	:	Rc.No.1431/Mines/2021, Dated:31.05.2022.	
19.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	:	Rc.No.1431/Mines/2021, Dated:31.05.2022	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated: 18.03.2022.	
21.	Project Cost (excluding EMP cost)	:	Rs. 81 Lakhs.	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m <sup>3</sup>	Rough stone – 3,27,148m <sup>3</sup> (Recovery – 3,10,791m <sup>3</sup> (@95%) & reject – 16,357m <sup>3</sup>


  
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			Gravel – 38,618m <sup>3</sup>
		: Annual Max RoM in m <sup>3</sup>	Rough stone – 65,940m <sup>3</sup> (Recovery - 62,643m <sup>3</sup> & 3,297m <sup>3</sup> of rejects) & Gravel – 24,098m <sup>3</sup>
		: Max Depth in mtrs	34m below ground level
23.	EMP cost (in Rs. Lakh).	: Capital Cost – Rs.11,32,400 /- Recurring Cost – Rs.7,24,860 /-	
24.	CER cost (in Rs. Lakh).	: Rs 5,00,000/-	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 65,940m<sup>3</sup> of Rough stone (Recovery - 62,643m<sup>3</sup> & 3,297m<sup>3</sup> of rejects) & 24,098m<sup>3</sup> of Gravel by restricting the ultimate depth of mining up to 34m below ground level and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 3) The PP shall obtain prior permission from the Director of Mines Safety, Chennai for maintaining the benches with height of more than 6 m while working in the hard and compact rock uniformly formed in the proposed quarry operation, under the provisions of MMR 1961.

  
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- 4) Since the structures are situated within a radial distance of 300 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground & noise from the blasting operations carried out in the the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, 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.
- 5) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3<sup>rd</sup> year or when the depth exceeds 30m whichever is earlier, 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. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6) The PP shall place and maintain the 'Reject Dump' as indicated in the Approved Mining Plan within the mine leasehold area.
- 7) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs shall be spent for the activities as committed towards the Government School, Myleripalayam Village before obtaining CTO from TNPCB.

Agenda No: 405-03

(File No: 10013/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 3.55.5Ha at SF. No. 162/2, 162/3, 162/4, 162/5, 162/6 (P), 162/7A, 162/7B, 162/8(P) & 162/9(P) of Rakkathanpatti Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Thiru. S. Anandhan- for Environmental Clearance. (SIA/TN/MIN/427881/2023, Dated:03.05.2023)

  
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Earlier the proposal was placed in 390<sup>th</sup> meeting of SEAC held on 07.07.2023. The details of the minutes are available in the website (parivesh.nic.in).

The SEAC noted the following:


1. The Project Proponent, Thiru. S. Anandhan has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 3.55.5Ha at SF.No. 162/2, 162/3, 162/4, 162/5, 162/6 (P), 162/7A, 162/7B, 162/8 (P) & 162/9 (P) of Rakkathanpatti Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

The subject was placed in 640<sup>th</sup> authority meeting held on 19.07.2023. The authority noted that the subject was appraised in 390<sup>th</sup> SEAC meeting held on 07.07.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

The authority noted the following:

- i) As per the documents submitted by the proponent, Assistant Director, Pudukkottai district has issued the details of quarries situated within 500m radial distance from the proposed project area vide Rc.No.628/2022 (G&M) dated:24.02.2023 which states that, the total extent of quarries within 500m radial distance when calculated totals to 5.88.5ha (1.43.5ha+3.55.5ha+0.89.5ha).
- ii) The MOEF Notification No: S.O. 2269(E), dated. 01.07.2016 states that...

*"....A cluster shall be formed when the distance between the peripheries of one lease is less than 500 meters from the periphery of other lease in a homogeneous mineral area which shall be applicable to the mine leases or quarry licenses granted on and after 9th September, 2013." and*  
*The leases not operative for three years or more and leases which have got environmental clearance as on 15th January, 2016 shall not be counted for calculating the area of cluster, but shall be included in the Environment Management Plan and the Regional Environmental Management Plan for Cluster....."*

  
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iii) Only those leases which are non-operative for 3 years and which have got EC as on 15.01.2016 shall not be considered while calculating cluster. In the current proposal, the total extent of quarries within 500m radial distance when calculated based on the above mentioned MoEF notification and 500m cluster letter issued by the Deputy Director of Dept of G&M totals to 5.88.5ha.

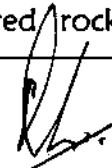
iv) Kml file reveals that the site is already worked out. The PP shall furnish the details and the PP shall submit Certified Compliance Report.

In view of these, the authority decided to refer back the proposal to SEAC for re-appraisal/ seeking clarifications on the above said points.

Now the proposal was placed in 405<sup>th</sup> meeting of SEAC held on 31.08.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEIAA.

Sl.NO	SEIAA Query	Reply
1.	Only those lease which are non operative for 3 years and which have got EC as on 15.01.2016 shall not be considered while calculating cluster. In the current proposal, the total extent of quarries within 500m radial distance when calculated based on the above mentioned MoEF notification and 500m cluster letter issued by the Deputy Director of Dept of G&M totals to 5.88.5ha.	We wish to bring your kind notice that the expired quarry belongs to K.J. Sujatha reached the ultimate depth since the area is less than 1 Ha and no further application submitted for the project site. Hence we are not taking that project into cluster. As on the date, the project attracts Cluster Notification 2269 (E) 1st July 2016 non operative for 3 years hence we request to not consider this project to calculate the cluster extent.
2.	KML file reveals that the site is already worked out, the PP shall furnish the details and PP shall furnish Certified Compliance Report.	CCR Not applicable, PP has one existing quarry on the southern side, the excavated Weathered and Gravel has been temporarily dumped in the project area. Continuous movement of the vehicle and transportation of dumped weathered rock and Gravel

  
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		<p>material its seems to be changes in the topography. The area has been inspected by the RDO Dated 04.01.2022 and inspected by the Assistant Director on 27.01.2023. Based on the references Precise area communication letter has been issued. We hereby submit changes over the year in the project site on google earth imagery.</p>
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Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to re-iterate its recommendation already made in its 390<sup>th</sup> SEAC meeting held on 07.07.2023. All other conditions mentioned in the minutes will remain unchanged and unaltered.

**Agenda No: 405-04**

**(File No: 9731/2023)**

**Proposed Rough Stone & gravel quarry lease area over an extent of 2.25.5 Ha at SF. No. 209/1A (P), 209/1B (P) & 209/2 (P) of Morattupalayam Village, Uthukuli Taluk, Tiruppur District by Tmt. V Revathi - For Terms of Reference. (SIA/TN/MIN/414152/2023, dated:11.01.2023)**

Earlier the proposal was placed in 367<sup>th</sup> SEAC meeting held on 31.03.2023. 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, Tmt. V Revathi has applied for Terms of Reference for the Rough Stone & gravel quarry lease area over an extent of 2.25.5Ha at SF. No 209/1A (P), 209/1B (P) & 209/2 (P) of Morattupalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is for 5 years. The mining plan is for the period of five years & the production should not exceed 1,41,283m<sup>3</sup> of rough stone & 4,860m<sup>3</sup> of Gravel with an ultimate depth of mining is 30m BGL (2m Gravel ± 28m Rough Stone). The annual peak production is 32,995m<sup>3</sup> of rough

stone & 2.340m<sup>3</sup> of Gravel.

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 ownership of the building, nature of construction, age of the building, number of residents, their profession and income, etc.

Now the proposal was placed in 405<sup>th</sup> meeting of SEAC held on 31.08.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

Sl.NO	SEIAA Query	Reply
1.	The Proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50m, (ii) 100m, (iii) 200m and (iv) 300m radius shall be enumerated with the 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 ownership of the buildings, nature of construction, age of building, number of residents, their profession and income etc.	Structures has been enumerated and the details located within the radius of 50m, (ii) 100 m, (iii) 200m and (iv) 300m radius are provided.

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

  
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1. The Proponent shall justify the selection of the site for carrying out the stone quarrying with the total volume arrived for the excavation & production adequate details such as lithology of the deposit, reserve estimation, place for waste dump/mined mineral storage, end-use of mined materials, identified potential customers/end-users and travel path.
2. The proponent is requested to carry out a detailed survey, detailed study and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
3. As the structures are located within a radial distance of 500 m, the PP shall furnish a Model simulating the conditions describing the level of ground vibrations and fly rock caused due to the blasting operation in the proposed quarry.
4. 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.
5. The Proponent shall carry out Bio diversity study through Department of Ecology and Environmental Sciences, Pondicherry University and the same shall be included in EIA Report.
6. 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.

**Agenda No: 405-05**

**(File No: 9633/2022)**

**Proposed Rough stone and Gravel quarry lease over an extent of 4.95.5Ha at SF. Nos. 202/2(P), 203/1 & 203/2B of Pappakudi Part-1 Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu by Thiru.Konda.L.Rajakrishnan- For Environmental Clearance. (SIA/TN/MIN/409195/2022, Dt: 05.12.2022).**

Earlier the proposal was placed in 364<sup>th</sup> SEAC meeting held on 23.03.2023. The details

  
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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.Konda.L.Rajakrishnan has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 4.95.5Ha in SF. Nos. 202/2 (P), 203/1 & 203/2B of Pappakudi Part-1 Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 13,69,390m<sup>3</sup> of Rough stone & 42,637m<sup>3</sup> of Gravel with an ultimate depth of mining is 56m BGL. The annual peak production is 384910m<sup>3</sup> of Rough stone(3<sup>rd</sup> Year) & 27776m<sup>3</sup> of Gravel(2<sup>nd</sup> Year).

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

1. The PP shall submit affidavit agreeing to remove the shed said to be owned by the PP and in the vicinity of the site
2. PP shall furnish details regarding the two existing pits operated earlier.
3. The PP shall submit the 'Slope stability action plan' for the proposed quarrying operation considering the existing two pits of 10 m highwall within the lease and it shall be vetted by the concerned AD (Mines).
4. The PP shall revise the total excavation quantity details by restricting the depth by 46m BGL to be incorporated in the 'Production & Development Plan'.
5. As accepted, the PP shall furnish revised CER for an amount of Rs.10 lakhs.

Now the proposal was placed in 405<sup>th</sup> meeting of SEAC held on 31.08.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

Sl.NO	SEAC Query	Reply
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1.	The PP shall submit affidavit agreeing to remove the shed said to be owned by the PP and in the vicinity of the site	The PP has removed the shed and affidavit had been submitted dated on 26.05.2023.
2.	PP shall furnish details regarding the two existing pits operated earlier.	<p>The land has been purchased by us in 2013 by us sir.</p> <p>Before we purchased as per google image year 2010, the two pit where available the previous landowner has removed two pits in his land.</p> <p>After we purchased, to avoid water stagnation we have levelled the site using filling earth and as of now there is on any pits in the site .</p>
3.	The PP shall submit the slope stability action plan for the proposed quarrying operation considering the existing two pits of 10m highwall within the lease and it shall be vetted by the concerned AD mines.	<p>The slope stability study done by the Anna university, Department of Mining Engineering, the report is enclosed and undertake and commit to SEAC and SEIAA that the proposed mining will be as per the recommendation and suggestion as per the study conducted.</p> <p>The Present scientific study in the proposed rough stone and gravel quarry for an area of 4.95.5 Ha in S.F.No.202/2(P) (1.80.5), 203/1(0.62) &amp; 203/2B(2.53.0) for Thiru.Konda.L.Rajakrishnan, Pappakudi Part-I Village, Cheranmahadevi taluk, Tirunelveli District, TamilNadu to design safe and systematic working benches with slope stability concern. Based on the field</p>

		<p>investigation of Anna University Research team the following observations are made as follows</p> <ol style="list-style-type: none"> <li>1. It is suggested to propose the benches with the design configuration of 5*5 with the bench slope of 89°. It is suggested to maintain the overall pit slope angle of 26°-45° in the proposed quarry. The proposed haul road with the gradient of 1 in 14 and width of 7.5m.</li> <li>2. It is suggested to install the boundary pillars as per MCR, 2016 in the respective boundaries.</li> <li>3. It is suggested to develop the green belt development along the safety barrier of the proposed quarry.</li> </ol>	
4.	The PP shall revise the total excavation quantity details by restricting the depth by 46m BGL to be incorporated in the Production and Development plan	According to SEAC recommendations the depth has been revised from 51m to 46m and the revised plates has been attached.	
5.	As accepted the PP shall furnish revised CER for an amount of Rs.10 lakhs.	The PP furnished revised CER for an amount of Rs.10 lakhs.	
File No	9633/2022 SIA/TN/MIN/409195/2022, Dated: 05.12.2022	Category	B2

  
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Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. Konda.L.Rajakrishnan, Parthas House, M.O Road, Alapuzha Ambalapuzha taluk, Alapuzha District Keral state
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone and Gravel Quarry
3.	S.F Nos. of the quarry site with area break-up	:	202/2(P), 203/1 & 203/2B
4.	Village in which situated	:	Pappakudi Part-1
5.	Taluk in which situated	:	Cheranmahadevi
6.	District in which situated	:	Tirunelveli
7.	Extent of quarry (in ha.)	:	4.95.5Ha
8.	Latitude & Longitude of all corners of the quarry site	:	08°45'28.39"N to 08°45'36.89"N 77°30'56.31"E to 77°31'05.48"E
9.	Topo Sheet No.	:	58-H/10
10.	Type of mining	:	Opencast Semi mechanized Mining
11.	Life of Project	:	5 Years
	Lease Period	:	5 Years
	Mining Plan Period	:	5 Years
12.	Mining Plan Details	:	As per approved Mining Plan
			<b>Rough Stone</b> <b>Gravel</b>
	Geological Resources m <sup>3</sup>	:	27,19,475m <sup>3</sup> 49,445m <sup>3</sup>
	Minable Resources m <sup>3</sup>	:	13,69,390m <sup>3</sup> 42,637m <sup>3</sup>



	Annual Peak Production in m <sup>3</sup>	:	2,58,755m <sup>3</sup>	27,776m <sup>3</sup>
	Ultimate Depth in meters	:	56m Below Ground level	
13.	Depth of water table	:	58m - 63m BGL	
14.	Man Power requirement per day	:	22 Employees	
15.	Water requirement: 1. Drinking water & Utilized water 2. Dust suppression 3. Green belt	:	1.5 KLD 0.5 KLD 0.5 KLD 0.5 KLD	
16.	Power requirement	:	TNEB 11,02,614 litres of HSD Will be utilized for the entire project life.	
17.	Precise area communication approved by the Joint Director/Assistant Director(i/c), Department of G&M.	:	Rc.No.M2/11891/2019, dated: 29.11.2022	
18.	Mining Plan approved by the Joint Director/ Assistant Director(i/c), Department of G&M.	:	Roc.No.M2/11891/2019, dated: 16.11.2022	
19.	500m Cluster Letter approved by the Assistant Director (i/c), Department of G&M.	:	Roc.No.M2/11891/2019, dated: 29.11.2022	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated :20.11.2022	
21.	Project Cost (excluding EMP cost)	:	Rs.77,77,500/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits. Rough Stone      Gravel

		Max : Total in m <sup>3</sup>	12,46,935m <sup>3</sup>	42,637m <sup>3</sup>
		Annual : Max in m <sup>3</sup>	2,58,755m <sup>3</sup>	27,776m <sup>3</sup>
		Max : Depth in mtrs	46m BGL	
23.	EMP cost (in Rs. Lakh).	:	Rs.117Lakhs	
24.	CER cost (in Rs. Lakh).	:	Rs.10 Lakhs	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 2,58,755m<sup>3</sup> of Rough stone and 27,776m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining of 46m BGL, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of one year from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, IIT-Dept of

  
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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.

3. 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 wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
4. As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone during the 3<sup>rd</sup> year of quarrying operation, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, 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.
5. As accepted by the Project Proponent the CER cost of Rs.10 lakhs and the amount shall be spent for the committed activities at (i) Panchayat Union Primary School, Kumarasamiyapuram Village, Tirunelveli District (ii) Panchayat Union Primary School, P.Ilanthaikulam Village, Tirunelveli District before obtaining CTO from TNPCB.

  
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Agenda No: 405-06

(File No: 9950/2023)

Proposed Gravel quarry lease over an extent of 0.73.5Ha at SF.No. 285/1 of Balajangamanahalli Village, Nallampalli Taluk, Dharmapuri District, Tamil Nadu by Thiru. S. Perumal - for Environmental Clearance. (SIA/TN/MIN/ 423898/2023, Dated:29.03.2023)

Earlier the proposal was placed in 387<sup>th</sup> meeting of SEAC held on 28.06.2023. 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. S. Perumal has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 0.73.5Ha at SF.No. 285/1 of Balajangamanahalli Village, Nallampalli Taluk, Dharmapuri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and document furnished by the project proponent, SEAC decided to seek the following details from the project proponent.


1. The project proponent shall furnish soil analysis report indicating the composition/component of the minerals proposed to be quarried and also the PP shall analyse for organic content obtained from anyone of the following test laboratories authorized by the Director of Geology and Mining as directed in the Judgment.

1.	Department of Civil Engineering, National Institute of Technology, Trichy – 620015.
2.	Department of Civil Engineering, Govt College of Engineering, Karuppur, Salem – 636011.
3.	Division of Soil Mechanics and Foundation Engineering, Dept of Civil Engineering, Anna University, CEG Campus, Guindy, Chennai – 600025.

2. The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not fall under any notified/declared protected zones in terms of Judgement issued by the Hon'ble Madurai Bench of Madras High

  
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Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021.

3. The PP revise 500m radius cluster certificate.

Now the proposal was placed in 405<sup>th</sup> meeting of SEAC held on 31.08.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

Sl.NO	SEAC Query	Reply						
1.	<p>The project proponent shall furnish soil analysis report indicating the composition/component of the minerals proposed to be quarried and also the PP shall analyse for organic content obtained from anyone of the following test laboratories authorized by the Director of Geology and Mining as directed in the Judgment.</p> <table border="1"> <tbody> <tr> <td>1.</td> <td>Department of Civil Engineering, National Institute of Technology, Trichy - 620015.</td> </tr> <tr> <td>2.</td> <td>Department of Civil Engineering, Govt College of Engineering, Karuppur, Salem - 636011.</td> </tr> <tr> <td>3.</td> <td>Division of Soil Mechanics and Foundation Engineering, Dept of Civil Engineering, Anna University, CEG Campus, Guindy, Chennai - 600025.</td> </tr> </tbody> </table>	1.	Department of Civil Engineering, National Institute of Technology, Trichy - 620015.	2.	Department of Civil Engineering, Govt College of Engineering, Karuppur, Salem - 636011.	3.	Division of Soil Mechanics and Foundation Engineering, Dept of Civil Engineering, Anna University, CEG Campus, Guindy, Chennai - 600025.	The PP has furnished soil analysis report.
1.	Department of Civil Engineering, National Institute of Technology, Trichy - 620015.							
2.	Department of Civil Engineering, Govt College of Engineering, Karuppur, Salem - 636011.							
3.	Division of Soil Mechanics and Foundation Engineering, Dept of Civil Engineering, Anna University, CEG Campus, Guindy, Chennai - 600025.							
2.	The proponent should produce a letter from the Department of Geology and	The PP has furnished AD, Mines letter vide						

  
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	Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not fall under any notified/declared protected zones in terms of Judgement issued by the Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021.	Roc.No.316/2022(Mines) dated 05.07.2023.
3.	The PP revise 500m radius cluster certificate.	The PP has submitted revised 500m radius letter.

File No	9950/2022 SIA/TN/MIN/ 423898/2023, Dated:29.03.2023	Category	B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. S. Perumal S/o. Sagadevan, Boothanahalli Village, Nallampalli Taluk, Dharmapuri District-636804
2.	Type of quarrying (Ordinary Stone/Sand/Granite/ Limestone)	:	Gravel Quarry
3.	S.F Nos. of the quarry site with area break-up	:	285/1
4.	Village in which situated	:	Balajangamanahalli
5.	Taluk in which situated	:	Nallampalli
6.	District in which situated	:	Dharmapuri

7.	Extent of quarry (in ha.)	: 0.73.5Ha
8.	Latitude & Longitude of all corners of the quarry site	: 12°04'38.54"N to 12°04'43.19"N 78°04'27.48"E to 78°04'31.52"E
9.	Topo Sheet No.	: 57-L/04
10.	Type of mining	: Opencast Semi mechanized Mining
11.	Life of Project	: 1 Year
	Lease Period	: 1 Year
	Mining Plan Period	: 1 Year
12.	Mining Plan Details	: As per approved Mining Plan Gravel
	Geological Resources m <sup>3</sup>	: 16,638m <sup>3</sup>
	Minable Resources m <sup>3</sup>	: 10,400m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	: 10,400m <sup>3</sup>
	Ultimate Depth in meters	: 4m BGL
13.	Depth of water table	: 35m in Summer Season - 30m in Rainy season
14.	Man Power requirement per day	: 7 Employees
15.	Water requirement:	: 1.1 KLD
	1. Drinking water & Utilized water	0.1 KLD
	2. Dust suppression	0.5 KLD
	3. Green belt	0.5 KLD
16.	Power requirement	: TNEB 2768 litres of Diesel Will be utilized
17.	Precise area communication approved by the Assistant Director, Department of G&M.	: Roc.No.316/2022/Mines, Dated: 21.03.2023

  
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18.	Mining Plan approved by the Assistant Director, Department of G&M.	:	Roc.No.316/2022/Mines, Dated: 27.03.2023	
19.	500m Cluster Letter approved by the Assistant Director, Department of G&M.	:	Roc.No.316/2022/Mines, Dated: 27.03.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated :29.03.2023	
21.	Project Cost (excluding EMP cost)	:	Rs.17,26,433/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Gravel
		:	Max Total in m <sup>3</sup>	8984m <sup>3</sup>
		:	Annual Max in m <sup>3</sup>	8984m <sup>3</sup>
		:	Max Depth in mtrs	4m BGL
23.	EMP cost (in Rs. Lakh).	:	Rs.2.43Lakhs	
24.	CER cost (in Rs. Lakh).	:	Rs.1 Lakh	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for Annual Peak excavation quantity of not exceeding 8984m<sup>3</sup> by maintaining an ultimate pit depth of 4m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

  
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1. The PP shall complete the quarrying operations within a period of 1 year from the date of execution of the lease.
2. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
3. The PP shall carry out the required number of plantation as committed in the EMP before the execution of mine lease.
4. The PP shall not carry out any drilling & blasting operations in the proposed quarry.
5. As accepted by the Project proponent the CER cost is Rs.1 Lakh and the amount shall be spent for the Government Higher School, Nallampalli Village before obtaining CTO from TNPCB.

**Agenda No 405-07**

**File No: 1104/2013)**

**Recommendations for releasing the Bank guarantee for the value of Rs.123.9 lakhs remitted towards Ecological remediation, Natural resources Augmentation and Community resources Augmentation under EIA Notifications dated 14.3.2017 & 08.03.2018 (violation category) for Proposed construction of Medical College Campus at Old S.F.No. 68/1, New S.F.No. 68/1, 68/3, 68/4, 68/5, 68/6, 68/7, 68/8, 68/9, 68/10 & 68/11 of Kesavarayanpettai Village, Cheyyur Taluk, Kancheepuarm District , Tamil Nadu by M/s. Adhiparasakthi Charitable Medical, Educational and Cultural Trust.**

This proposal was placed in 405<sup>th</sup> SEAC meeting held on 31.08.2023. The details of the project furnished by the proponent are available on the web portal (parivesh.nic.in).

**The SEAC noted the following**

1. The PP was issued with Environmental Clearance vide Lr.No.SEIAA-TN/1104/2013/EC/8(a)/612/2018 dated: 10.08.2018 under violation category with the following conditions.
  - The amount prescribed for Ecological remediation (Rs. 61.95 lakhs), natural resource augmentation (Rs. 24.78 lakhs) & community resource augmentation (Rs. 37.17 lakhs), totalling Rs. 123.9 lakhs shall be remitted in the form of bank guarantee to Tamil Nadu Pollution Control board, before obtaining Environmental Clearance and submit the acknowledgement of the same to SEIAA-TN. The funds should be utilized

  
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for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.

- The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of six months. If not the bank guarantee will be forfeited to TNPCB without further notice.

Subsequently the PP has furnished the BG dated 09.08.2018 to TNPCB to amount of Rs.123.9 lakhs.

Now the PP has applied for releasing of the above said Bank guarantee of Rs.123.9 Lakhs given to TNPCB along with CCR received from MoEF&CC vide F. No.EP/12.1/2019-20/SEIAA/12/TN/1464 dated 28.08.2019.


The EIA Notification 2006 vide S.O No S.O. 804(E). Dt 14.3.2017 stated that *“(7) The project proponent will be required to submit a bank guarantee equivalent to the amount of remediation plan and Natural and Community Resource Augmentation Plan with the State Pollution Control Board and the quantification will be recommended by Expert Appraisal Committee and finalized by Regulatory Authority and the bank guarantee shall be deposited prior to the grant of environmental clearance and will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.”*

This proposal was placed in 405<sup>th</sup> SEAC meeting held on 31.08.2023. The SEAC accepted the documents & details furnished by the Project Proponent and decided to recommend for release of bank Guarantee to SEIAA.

**Agenda No: 405 - 08**

**(File No. 6223/2017)**

Existing Magnesite mine lease over an extent of 3.23.7 Ha at S.F. No. 55/1, Moongilpadi Village, Omalur Taluk, Salem District, Tamil Nadu by M/s. Sri Venkateswara Magnesite Mines - Thiru A. Kesavan – for Environmental Clearance under violation category. (SIA/TN/MIN/416135/2023, Dt.30/01/2023)

  
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Earlier, this proposal was placed in this 369<sup>th</sup> SEAC meeting held on 20.04.2023. The details of the project furnished by the proponent are available on the web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

**The SEAC noted the following:**

1. The Project Proponent, M/s. Sri Venkateswara Magnesite Mines - Thiru A. Kesavan has applied for Environmental Clearance under violation category for the Existing Magnesite mine lease over an extent of 3.23.7 Ha at S.F. No. 55/1, Moongilpadi Village, Omalur Taluk, Salem 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. ToR issued under violation category vide Lr No. SEIAA-TN/F.No.6223/TOR-356/2018 Dated: 17.05.2018.
4. As per the Hon'ble High Court of Madras order dated 13.10.2017 in W.P.No.11189 of 2017, amendment in the ToR was issued vide Letter No. SEIAA-TN/F – 6223/SEAC-CXVIII /TOR- 356(A)/2018 Dt.30.07.2018.
5. Public hearing conducted on 19.05.2022.
6. The PP has furnished the EIA Report under violation on 01.02.2023.
7. Earlier the subject was placed in 369<sup>th</sup> SEAC meeting held on 20.04.2023. 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, remediation plan, natural resource augmentation and community resource augmentation.  
After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action to be taken for violation cases in accordance with law.
8. Subsequently this site was inspected by the sub-committee on 6.6.23. The sub-committee observations and details furnished by the PP were placed in 386<sup>th</sup>

  
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SEAC meeting and the SEAC decided to obtain the following details from the PP.

1. The PP shall furnish the documentary evidence for nonoperation of quarry from 2017 from the competent authority.

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

On receipt of a reply from the proponent, the proposal was placed in this 405<sup>th</sup> SEAC meeting held on 31.08.2023.

Based on the documents submitted by the PP and the Sub-Committee Report, SEAC noted the following

- Sri Venkateswara Magnesite Mines (SVMM) is owned by Thiru A. Kesavan of Salem, Tamil Nadu. SVMM has obtained mining lease over an area of 3.23.7 Ha at S.F. No. 55/1 of Moongilpadi Village, Omalur Taluk, Salem District, Tamil Nadu.
- The mining operation was carried out with necessary permission from 2014 to 2017. However, as per MoEF&CC notification S.O. 804(E) (dated, 14.03.2017), the project falls under violation category as the mining was carried out after 15.01.2016 without Environmental Clearance. The mining operations continued till 10.01.2017 without the Environmental Clearance.
- Subsequently, the proponent has applied for the Environmental Clearance and has been granted Terms of Reference by SEIAA-TN vide Letter No. SEIAA-TN/F.No. 6223/TOR-356/2018 (dated, 17.05.2018). Further, as per the Hon'ble High Court of Madras order dated 13.10.2017 in W.P.No. 11189 of 2017, amendment in the ToR was issued vide Letter No. SEIAA-TN/F-6223/SEAC-CXVIII/TOR-356(A)/2018 (dated, 30.07.2018).
- As the mining activity falls under 1(a) Category B1 violation, the proponent conducted public hearing on 19.05.2022 and submitted EIA report, along with ecological damage assessment, remediation plan, natural resource augmentation plan, and community resource augmentation plan to SEIAA-TN on 01.02.2023.
- The sub-committee constituted by SEAC-TN inspected the project site on 06.06.2023, interacted with the proponent and the EIA coordinator.
- The sub-committee observed that:

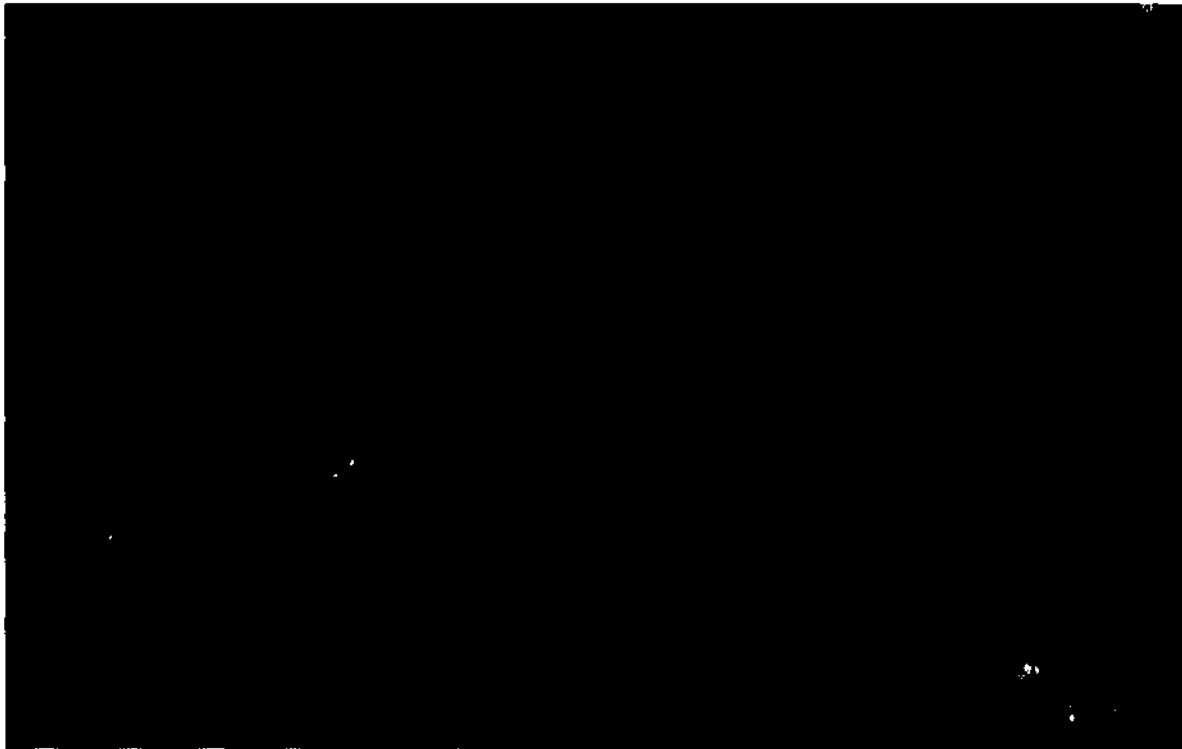
  
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- While the proponent has claimed that no mining activity took place after 10.01.2017, the project site appeared as though work was going on – this could be seen from the photographs taken during the site inspection.
- Further, the evidence from Google Earth images (presented below) corroborates the above observation that the mining continued beyond 10.01.2017.
- Subsequently, the PP had obtained a letter from Deputy Director, Department of Geology and Mining, Collectorate, Salem vide Roc. No. 800/2023/Mines-A dated 19.07.2023 stating that no transport permits were issued since January 2017.

In light of the contradiction between the sub-committee observations and the letter issued by AD(Mines) with regard to the operation of the mines beyond January 2017, SEAC decided that SEIAA may obtain further clarification from Director, Geology and Mining.

**Evidence that the mine was in operation beyond the violation period:**



**Sri Venkateswara Magnesite Mines – Google Earth Image dated, 27<sup>th</sup> December 2018**

  
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**Sri Venkateswara Magnesite Mines – Google Earth Image dated, 27<sup>th</sup> December 2018 –  
Enlarged portion shows mining activity**



**Sri Venkateswara Magnesite Mines – Google Earth Image dated. 1<sup>st</sup> November 2019 –  
Enlarged portion shows mining activity**

  
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**Sri Venkateswara Magnesite Mines – Google Earth Image dated. 25<sup>th</sup> August 2021 – Enlarged portion shows mining activity.**

**Agenda No. 405 – 09.**

**(File No: 7099/2023)**

**Proposed Savudu (Ordinary Earth) Quarry over an Extent of 3.33.20ha (PWD Tank) in S.F.Nos.130(Part) Poovami Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu by Thiru.B.Suresh Kumar - For Environmental Clearance. (SIA/TN/MIN/42107/2019 Dt. 01.09.2019)**

The proposal was placed in this 405<sup>th</sup> meeting of SEAC held on 31.08.2023. 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.B.Suresh Kumar has applied for Environmental Clearance for the Savudu Quarry over an Extent of 3.33.20ha of Patta Lands in S.F.Nos.130(Part) Poovami Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under category “B2” of Item 1 (a) “Mining of Minerals Projects” of the schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 55 days. The approved mining plan is for the period of 55 days & production should not exceed

  
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29,998 m<sup>3</sup> of Savudu. The depth of mining is 0.9m.

Based on the presentation and document furnished by the proponent, SEAC decided to call for additional details,

1. Since the Pulicat Bird Sanctuary is located within 10km & its ESZ is yet to be notified, PP shall obtain and submit NBWL Clearance.

On receipt of the above, further deliberations will be carried out. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

Agenda No: 405 - 10

(File No.7799/2020)


Proposed Savudu (Ordinary Earth) quarry lease over an extent of 3.00.0 ha at S.F.No. 303(Part) (PWD Tank) in Akkarapakkam Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu by Thiru.G.Paulraj – For Environmental Clearance. (SIA/TN/MIN/165971/2020, dated: 31.07.2020)

The proposal was placed in this 405<sup>th</sup> meeting of SEAC held on 31.08.2023. 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. Paulraj has applied for Environmental Clearance for the proposed Savudu (Ordinary Earth) Quarry over an Extent of 3.00.0Ha in S.F.Nos.303 (part) of Akkarapakkam Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 45 days. The approved mining plan is for the period of 45 days & production should not exceed 30000m<sup>3</sup> of Savudu (Ordinary Earth). The depth of mining is 1.0m.
4. Earlier, the project proposal was placed in the 195<sup>th</sup> SEAC meeting on 27.01.2021. On initial discussion, the committee decided to defer the proposal to know the present status on the availability of mineral resources in the proposed mine lease area and legal issues, if any, since the permission given by the PWD was more

  
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than two years back. The Monsoon inflow of the tank at every year will be varying. Hence the Committee directed the project proponent to get the revised letter from EE, PWD whether the same quantity in the same tank in the same location is available now also. After the receipt of the above details, the project proponent shall re-present once again their case before the SEAC.

5. The PP has submitted Soil test report from Dept. of Geology, University of Madras, Guindy Campus, Chennai Dt: 18.05.2023.
6. DD, Dept. of Geology & Mining, Tiruvallur Letter Dt: 15.05.2023 for expression of mineral as Ordinary Earth instead of Savudu as per G.O. Ms. No. Dt:14.12.2022.

Sl. No	Details of the Proposal	
1	Name of the Owner/Firm	: Thiru.G.Paulraj, S/o.Ganesan, No.25, Avathana Ramasamy Street, Old Vannarapet, Chennai- 600021.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Savudu (Ordinary Earth)
3	S.F No. Of the quarry site with area break-up	: 303 (part)
4	Village in which situated	: Akkarapakkam
5	Taluk in which situated	: Uthukottai
6	District in which situated	: Tiruvallur
7	Extent of quarry (in ha.)	: 3.00.0Ha
8	Latitude & Longitude of all corners of the quarry site	: 13°17'41"N to 13°17'49"N 80°05'28"E to 80°05'31"E
9	Topo Sheet No.	: 66C/303
10	Type of mining	: Opencast shallow Mining Method with no drilling and blasting
11	Period of quarrying proposed	: 45 days

12	Production (Quantity in m <sup>3</sup> )	:	30000m <sup>3</sup> of Savudu (Ordinary Earth)
13	Depth of quarrying	:	1.0m
14	Depth of water table	:	26 m BGL
15	Man Power requirement per day:		9Nos.
16	Source of Water Requirement		Water vendors
17	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, 3. Green Belt & Wet Drilling (in KLD)	:	1.0 KLD 2 1.0 KLD 1.5 KLD 0.5 KLD
18	Power requirement		TNEB
19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the. District Collector, Department of Geology and Mining with date	:	Na.Ka.No.309/2018/Kanimam.2, Dated: 13.06.2019
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Rc.No.309/2018/G&M-2, Dated: 13.08.2019
22	500m cluster letter by Assistant Director, Department of Geology and Mining		Rc.No.309/2018/ G&M-2, dated 13.08.2020
23	Technical opinion issued by EE, PWD.		Letter No.DB.JDO.1/F.203/Savudu/ 2018 Dt: 15.10.2018.
24	Project Cost	:	Rs.6.725 Lakh
25	EC Recommendation		Savudu (Ordinary Earth)
			RoM (m <sup>3</sup> ) 30000m <sup>3</sup>

  
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		Period of quarrying proposed	45 days
		Depth	1.0 m
26	EMP cost	:	Rs.1.02 Lakh
	CER cost		Rs.1 Lakh


Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production capacity of not exceeding 30000m<sup>3</sup> of Ordinary Earth by maintaining the ultimate depth of mining of 1.0m and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life for a period of not exceeding one year from the date of lease execution.
- 2) The Project Proponent shall ensure that the duration of lease period for the proposed mining is not less than one year as directed by Hon'ble High Court of Madras (Madurai Bench) in its orders dated 12.02.2021 in W.P.(MD)Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019.
- 3) The AD (Mines) shall ensure that a proper mechanism evolved for the aforesaid activities to monitor the excavation of Ordinary Earth within the permitted quantity and its movement before the execution of the lease.
- 4) The PP shall not carry out drilling & blasting operations in the proposed quarry.
- 5) As accepted by the Project Proponent the CER cost of Rs. 1,00,000/- and the amount shall be spent for the committed activities Government School at Akkarapakkam Village before obtaining CTO from TNPCB.

Agenda No: 405 - 11

(File No:7806/2020)

Proposed Savudu (Ordinary Earth) Quarry over an Extent of 3.33.30Ha (PWD Tank) in S.F.Nos.18/1 (Part) PWD Tank of Ayanallur Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu by Thiru. S. Munusamy – For Environmental Clearance. (SIA/TN/MIN/165968/2020 dt:03.08.2020)

  
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The proposal was placed in this 405<sup>th</sup> meeting of SEAC held on 31.08.2023. 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. Munusamy has applied for Environmental Clearance for the proposed Savudu (Ordinary Earth) Quarry over an Extent of 3.33.30Ha in S.F.Nos.18/1 (Part) PWD Tank of Ayanallur Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 45 days. The approved mining plan is for the period of 55 days & production should not exceed 29997m<sup>3</sup> of Savudu (Ordinary Earth). The depth of mining is 0.90m.
4. The PP has submitted Soil test report from Dept. of Geology, University of Madras, Guindy Campus, Chennai Dt: 18.05.2023.
5. DD, Dept. of Geology & Mining, Tiruvallur Letter Dt: 16.05.2023 for expression of mineral as Ordinary Earth instead of Savudu as per G.O. Ms. No. Dt:14.12.2022.

Based on the presentation and document furnished by the proponent, SEAC decided to call for additional details,

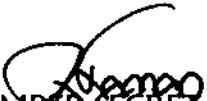
1. Since the Pulicat Bird Sanctuary is located within 10km & its ESZ is yet to be notified, hence the PP shall obtain and submit NBWL Clearance.

On receipt of the above, further deliberations will be carried out. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

Agenda No: 405-12

(File No: 7646/2020)

Proposed Ordinary Earth Quarry over an extent of 3.25.0 Ha at S.F.No: 155/2(part) of Thathamaji Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu by Thiru.R.Udhayavel -For Environmental Clearance. (SIA/TN/MIN/148284/2023, Dated:07.07.2020).

  
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The proposal was placed in this 405<sup>th</sup> Meeting of SEAC held on 31.08.2023. 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.R.Udhayavel has applied for Environmental Clearance for the Proposed Ordinary Earth Quarry over an extent of 3.25.0 Ha at S.F.No: 155/2(part) of Thathamaji Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 45 Days. The mining plan is for the period of 45 days & production should not exceed 29,250 m<sup>3</sup> of Ordinary Earth with an ultimate depth of mining- 0.90m.
4. Earlier, the proponent was requested to obtain fresh permission from the WRD/PWD for the area, volume and quantity to be quarried vide Lr.Dt:14.08.2020 since, the project proponent has obtained NOC from the PWD vide Lr. No.DB/JDO.1/F-203/Savudu/2018 dated 15.10.2018, which is more than 4 years old.

Based on the presentation and document furnished by the proponent, SEAC decided to call for additional details,

1. Since the Pulicat Bird Sanctuary is located within 10km & its ESZ is yet to be notified, hence the PP shall obtain and submit NBWL Clearance.

On receipt of the above, further deliberations will be carried out. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

Agenda No: 405-13

(File No: 7800/2020)

Proposed Ordinary Earth Quarry over an extent of 3.25.0 Ha at S.F.No: 505/1(part) of Thaneerkulam Village, Tiruvallur Taluk, Tiruvallur District, Tamil Nadu by Thiru.A.Magesh -For Environmental Clearance. (SIA/TN/MIN/165966/2020, Dated:31.07.2020).

  
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The proposal was placed in this 405<sup>th</sup> Meeting of SEAC held on 31.08.2023. 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.Magesh has applied for Environmental Clearance for the Proposed Ordinary Earth Quarry over an extent of 3.25.0 Ha at S.F.No: 505/1(part) of Thaneerkulam Village, Tiruvallur Taluk, Tiruvallur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 50 Days. The mining plan is for the period of 50 days & production should not exceed 29,250 m<sup>3</sup> of Rough Stone with ultimate depth of mining 0.9 m.
4. The salient features of the proposed project as follows:

File No	7800		Category	"B2" 1(a)
	SIA/TN/MIN/165966/2020, Dated: 31.07.2023			EC
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.A.Magesh No.35/2, Nagarathinam Street Kamaraj Nagar, Cromptet Pallavaram Kanchipuram District – 601 201.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Ordinary Earth Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	505/1(part)	
4.	Village in which situated	:	Thaneerkulam	
5.	Taluk in which situated	:	Tiruvallur	

  
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6.	District in which situated	:	Tiruvallur	
7.	Extent of quarry (in ha.)	:	3.25.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	13°08'08"N to 13°08'16"N 79°56'20"E to 79°56'30"E	
9.	Topo Sheet No.	:	57 O/16	
10.	Type of mining	:	Opencast of Mechanized Mining without drilling and blasting	
11.	Life of Project	:	50 Days	
	Lease Period	:	50 Days	
	Mining Plan Period	:	50 Days	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
			Ordinary Earth	
	Geological Resources m <sup>3</sup> (RoM)	:	29,250 m <sup>3</sup>	29,250 m <sup>3</sup>
	Minable Resources m <sup>3</sup> (RoM)	:	29,250 m <sup>3</sup>	29,250 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	29,250 m <sup>3</sup>	29,250 m <sup>3</sup>
	Maximum Depth in meters	:	0.90m	
13.	Depth of water table	:	30m	
14.	Man Power requirement per day:	:	9 Nos.	
15.	Water requirement:		1.0 KLD	
	1. Drinking water & Utilized	:	0.3 KLD	
	2. Dust suppression	:	0.4 KLD	
	3. Green belt	:	0.3 KLD	
16.	Power requirement	:	TNEB	

		487 Liters of HSD	
17.	Precise area communication approved by District Collector	Rc.No.230/2018/Mines-2 Dated: 13.06.2019	
18.	Mining Plan approved by Assiatant Director, Department of Geology and Mining,	Rc.No.230/2018/G&M-2 Dated: 09.08.2019	
19.	Assistant Director, Department of Geology and Mining, 500m Cluster Letter	Rc.No.230/2018/G&M-2 Dated: 09.08.2019	
20.	VAO Certificate Regarding Structures within 300m Radius	Letter Dated: 22.08.2019	
21.	Project Cost (excluding EMP cost)	: Rs.6,62,000/-	
22.	EC Recommendation	: Validity	30 years subject to the following upper limits. Ordinary Earth
		: Max Total RoM in m <sup>3</sup>	29,250 m <sup>3</sup>
		: Annual Max RoM in m <sup>3</sup>	29,250 m <sup>3</sup>
		: Max Depth in mtrs	0.90m BGL
23.	EMP cost (in Rs. Lakh).	: Capital cost & recurring cost – Rs. 3.10 Lakhs	
24.	CER cost (in Rs. Lakh).	: Rs. 1,00,000 /- as accepted by the PP	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 29,250 m<sup>3</sup> of Ordinary Earth by maintaining the ultimate depth of mining of 0.9m and subject to the standard

  
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conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life for a period of not exceeding one year from the date of lease execution.
2. The Project Proponent shall ensure that the duration of lease period for the proposed mining is not less than one year as directed by Hon'ble High Court of Madras (Madurai Bench) in its orders dated 12.02.2021 in W.P.(MD)Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019.
3. The AD (Mines) shall ensure that a proper mechanism evolved for the aforesaid activities to monitor the excavation of Ordinary Earth within the permitted quantity and its movement before the execution of the lease.
4. The PP shall not carry out drilling & blasting operations in the proposed quarry.
5. As accepted by the Project Proponent the CER cost of Rs. 1,00,000/- and the amount shall be spent for the committed activities Government Middle School at Thandalancheri Village before obtaining CTO from TNPCB.

Agenda No: 405-14

(File No: 10100/2023)

Proposed Rough Stone and Gravel Quarry over an extent of 0.61.50 Ha at S.F.No. 14/1 of Sirukalambur Village, Vellore Taluk, Vellore District, Tamil Nadu by Tvl. Sri Murugan Traders, (Partner Thiru.P.Prabakaran) -For Environmental Clearance. (SIA/TN/MIN/430552/2023, Dated:26.05.2023).

The proposal was earlier placed in the 393<sup>rd</sup> Meeting of SEAC held on 20.07.2023. 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, Tvl. Sri Murugan Traders, (Partner Thiru.P.Prabakaran) has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 0.61.50 Ha at S.F.No. 14/1 of Sirukalambur Village, Vellore Taluk, Vellore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

  
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3. As per the mining plan the lease period is 5 years. The mining plan is for the period of Five years & production should not exceed 19,435 m<sup>3</sup> of Rough Stone & 6,540 m<sup>3</sup> of Gravel with an ultimate depth of mining 12m BGL.

During the meeting the Committee noted that the project proponent is absent during the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

Based on the proponent's request, The proposal was again placed in this 405<sup>th</sup> Meeting of SEAC held on 31.08.2023. Based on the presentation and document furnished by the proponent, SEAC noted that the applied lease area falls under cluster mining since the total area of other existing quarries within 500m radius is more than 5 Ha. Hence the Committee directed the Proponent to withdraw this online application and PP shall apply a fresh application for obtaining Terms of Reference along with revised 500m cluster certificate indicating the status of other quarries (existing/abandoned/expired/proposed/instant) located in the cluster zone.

On receipt of the new online application the subject may be placed before the SEAC for appraisal.

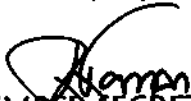
**Agenda No: 405 - 15**

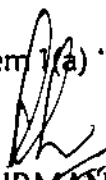
**(File No: 7647/2020)**

**Proposed Ordinary Earth Quarry lease over an extent of 3.25.0 Ha at S.F.Nos. 217/1A(Part) (PWD Tank) of Sivanvoyal Village, Thiruvarur Taluk & District, Tamil Nadu by Thiru. R. Sakthivel,- For Environment Clearance. (SIA/TN/MIN/157859/2020, dated 16.06.2020)**

The proposal was placed in this 405<sup>th</sup> meeting of SEAC held on 31.08.2023. The Project Proponent made a detailed power point presentation on the proposed project. 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, R. Sakthivel has applied seeking Environment Clearance for the proposed Ordinary Earth Quarry lease over an extent of 3.25.0 Ha at S.F.Nos. 217/1A(Part) (PWD Tank) of Sivanvoyal Village, Thiruvarur Taluk & District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining

  
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Projects” of the Schedule to the EIA Notification 2006, as amended.

3. Mine lease area is contiguous and has dimensions of - 250m(L) x 130m(W) x 0.9m(D).

4. Soil test report dated 18.05.2023

File No	7647	Category	B2
	SIA/TN/MIN/157859/2020 dt 16.06.2020		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.R.Sakthivel S/o. Rathinavel, Nagarajakandigai Village, Sitharajakandigai Post, Gummidipoondi Taluk, Tiruvallur District. Pincode- 601201.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/ Limestone)	:	Ordinary Earth
3.	S.F Nos. of the quarry site with area break-up	:	217/1A(Part) PWD Tank
4.	Village in which situated	:	Sivanvoyal Village,
5.	Taluk in which situated	:	Thiruvallur
6.	District in which situated	:	Thiruvallur
7.	Extent of quarry (in ha.)	:	3.25.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	13°10'16"N to 13°10'24"N 80°00'24"E to 80°00'32"E
9.	Topo Sheet No.	:	66C/04
10.	Type of mining	:	Open Semi Mechanized mining Method
11.	Life of Project	:	50 days

  
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	Lease Period	50 days	
	Mining Plan Period	: 50 days	
12.	Mining Plan Details	: As per approved Mining Plan	As modified by SEAC
	Geological Resources in m <sup>3</sup> (RoM)	: Ordinary Earth – 29250 m <sup>3</sup>	-
	Minal Resources in m <sup>3</sup> (RoM)	: Ordinary Earth – 29250 m <sup>3</sup>	-
	Annual Peak Production in m <sup>3</sup>	: Ordinary Earth – 29250 m <sup>3</sup>	-
	Maximum Depth in meters	: 0.9m BGL	
13.	Depth of water table	: 30m BGL	
14.	Man Power requirement per day:	: 9 Nos.	
15.	Water requirement:	: 1.0 kLD	
	a. Drinking & Utilized water	0.3 kLD	
	b. Dust suppression & Green Belt	0.4 kLD	
		0.3 KLD	
16.	Power requirement	TNEB 487000 litre of HSD for entire project life	
17.	Precise area communication approved by the AD/DD, Dept. of Geology & Mining	: Rc.No.228/2018/G&M-2, Dated: 03.06.2019	
18.	Mining Plan approved by AD/DD, Dept. of Geology & Mining	: Rc.No.228/2018/G&M-2, Dated: 13.08.2019	

  
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19.	500m Cluster Letter issued by AD/DD, Dept. of Geology & Mining		Rc.No.228/2018/G&M-2, Dated: 13.08.2019	
20.	VAO Certificate regarding Structures within 300m Radius		Letter dated: Nil.	
21.	Project Cost	:	Rs. 6.50 Lakh	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Ordinary Earth
		:	Max Total RoM in m <sup>3</sup>	29250
		:	Annual Max RoM in m <sup>3</sup>	29250
		:	Max Depth in m	0.9 m BGL
23.	EMP cost (in Rs. Lakh).	:	Rs.3.10 Lakh	
24.	CER cost (in Rs. Lakh).	:	Rs. 1,00,000	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 29250 m<sup>3</sup> of Ordinary Earth by maintaining the ultimate depth of mining of 0.9m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life for a period of not exceeding one year from the date of lease execution.
- 2) The Project Proponent shall ensure that the duration of lease period for the proposed mining is not less than one year as directed by Hon'ble High Court of Madras (Madurai Bench) in its orders dated 12.02.2021 in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019.

- 3) The AD (Mines) shall ensure that a proper mechanism evolved for the aforesaid activities to monitor the excavation of Ordinary Earth within the permitted quantity within the leasehold area and its movement before the execution of the lease.
- 4) The proponent shall provide the particulars for carrying out the plantation of 1500 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- 5) As accepted by the Project Proponent the CER cost of Rs. 1,00,000 and the amount shall be spent for the committed activities at Village Government School before obtaining CTO from TNPCB.

**Agenda No: 7801 - 16**

**(File No: 7801/2020)**

**Proposed Ordinary Earth Quarry lease over an extent of 3.33.30 Ha of PWD Tank at S.F.Nos. 468 (P), Melmudalambedu Village, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu by Thiru.J.Dhanasekaran - For Environment Clearance. (SIA/TN/MIN/165964/2020 dt 31.07.2020)**

The proposal was placed in this 405<sup>th</sup> meeting of SEAC held on 31.08.2023. The Project Proponent made a detailed power point presentation on the proposed project. 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.J.Dhanasekaran has applied seeking Environment Clearance for the proposed Ordinary Earth Quarry lease over an extent of 3.33.30 Ha of PWD Tank at S.F.Nos. 468 (P), Melmudalambedu Village, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.
3. Mine lease area is contiguous and has dimensions of - 303m(L) x 110m(W) x 0.9m(D).

Based on the presentation and documents furnished by the project proponent, SEAC decided to seek the following additional details/documents from the PP:

The Soil composition report obtained from anyone of these approved

  
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Laboratories in the prescribed format shall be furnished in accordance with the directions issued by the Director of Geology and Mining Lr. No. 7240/MM6/2019, dated. 30.07.2021.

Sl. No	Name of the Laboratory
1.	Department of Civil Engineering, Division of Soil mechanics and foundation Engineering, Anna University, Guindy, Chennai -25.
2.	Department of Civil Engineering, National Institute of Technology, Trichy-620015.
3.	Govt College of Engineering, Karuppur, Salem – 636011.

On receipt of the details sought above, the SEAC will further deliberate and decide on future course of action. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.


**Agenda No: 405 - 17**

**(File No: 7311/2019)**

**Proposed Ordinary Earth Quarry lease over an extent of 3.15.0 Ha at S.F.Nos. 112 (Part), Marambedu Village, Ponneri Taluk, Thiruvallur District, Tamil Nadu by Thiru.U.Kumar - For Environment Clearance. (SIA/TN/MIN/127415/2020 Dt:05.12.2019)**

The proposal was placed in this 405<sup>th</sup> meeting of SEAC held on 31.08.2023. The Project Proponent made a detailed power point presentation on the proposed project. 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.U.Kumar has applied seeking Environment Clearance for the proposed Ordinary Earth Quarry lease over an extent of 3.15.0 Ha at S.F.Nos. 112 (Part), Marambedu Village, Ponneri Taluk, Thiruvallur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.

  
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3. Mine lease area is non-contiguous and has two separate blocks of dimensions Block 1- 230m(L) x 90m(W) x 0.9m(D) and Block 2- 180m(L) x 60m(W) x 0.9m(D).

The SEAC noticed from the KML image file that both the blocks (Block 1 and Block 2) of the mine lease area have already been excavated without obtaining the prior EC. Hence the SEAC decided to request the SEIAA to obtain clarification from PWD in this regard.

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

Agenda No: 405 - 18

(File No: 7766/2020)


Proposed Ordinary Earth Quarry lease over an extent of 3.17.50 Ha of PWD Tank at S.F.Nos. 193/1 (Part), Kaivandur Village, Tiruvallur Taluk, Thiruvallur District, Tamil Nadu by Thiru.S.Ramamoorthy - For Environment Clearance. (SIA/TN/MIN/136324/2020 Dt:11.01.2020)

The proposal was placed in this 405<sup>th</sup> meeting of SEAC held on 31.08.2023. The Project Proponent made a detailed power point presentation on the proposed project. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru.S.Ramamoorthy has applied seeking Environment Clearance for the proposed Ordinary Earth Quarry lease over an extent of 3.17.50 Ha of PWD Tank at S.F.Nos. 193/1 (Part), Kaivandur Village, Tiruvallur Taluk, Thiruvallur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.
3. Mine lease area is contiguous and has dimensions of - 250m(L) x 127m(W) x 0.9m(D).

Based on the presentation and documents furnished by the project proponent, SEAC decided to seek the following additional details/documents from the PP:

The Soil composition report obtained from anyone of these approved Laboratories in the prescribed format shall be furnished in accordance with the directions issued by the Director of Geology and Mining Lr. No. 7240/MM6/2019, dated. 30.07.2021.

  
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Sl. No	Name of the Laboratory
1.	Department of Civil Engineering, Division of Soil mechanics and foundation Engineering, Anna University, Guindy, Chennai -25.
2.	Department of Civil Engineering, National Institute of Technology, Trichy-620015.
3.	Govt College of Engineering, Karuppur, Salem – 636011.

On receipt of the details sought above, the SEAC will further deliberate and decide on future course of action. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

**Agenda No: 405 - 19**

**(File No: 6989/2019)**

**Proposed Ordinary Earth Quarry lease over an extent of 3.30.0 Ha at S.F.Nos. 396/(Part), Vanjivakkam Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu by Thiru. V.Arjun - For Environment Clearance. (SIA/TN/MIN/39142/2020 Dt:12.07.2019)**

The proposal was placed in this 405<sup>th</sup> meeting of SEAC held on 31.08.2023. The SEAC noted that the Project Proponent was absent for the meeting. SEAC decided to defer the subject to a later date directing the project proponent to furnish the reason for not attending the meeting.

**Agenda No: 405 - 20**

**(File No: 6814/2020)**

**Proposed Ordinary Earth Quarry lease over an extent of 1.94.00 Ha of Patta land at S.F.Nos. 143/2A, 149/1B & 149/2, Perilovanpatti Village, Ettaiyapuram Taluk, Thoothukudi District, Tamil Nadu by Thiru. Krishna Kumar - For Environment Clearance. (SIA/TN/MIN/36027/2019 Dt:10.05.2019)**

The proposal was placed in this 405<sup>th</sup> meeting of SEAC held on 31.08.2023. The Project Proponent made a detailed power point presentation on the proposed project. The

  
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The SEAC noted the following:

1. The Project Proponent, Thiru. Krishna Kumar has applied seeking Environment Clearance for the proposed Ordinary Earth Quarry lease over an extent of 1.94.00 Ha of Patta land at S.F.Nos. 143/2A, 149/1B &149/2, Perilovanpatti Village, Ettaiyapuram Taluk, Thoothukudi District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.
3. Mine lease area is non-contiguous and has two blocks.
4. River Vaippar is flowing at a distance of 150m from the project site.

Based on the presentation and documents furnished by the Project Proponent the SEAC decided to call for the following additional documents from the PP:

- 1) The Project Proponent shall ensure the duration of lease period for the proposed mining is not less than one year as directed by Hon'ble High Court of Madras (Madurai Bench) in its orders dated 12.02.2021 in W.P.(MD)Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019.
- 2) The PP shall ensure the mine lease area is contiguous and not divided into separate blocks.
- 3) The proponent shall produce the letter obtained from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment.

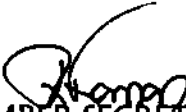
On receipt of the details sought, the SEAC will further deliberate and decide on future course of action.

**Agenda No: 405 - 21**

**File No: 7648/2020**

**Proposed Ordinary Earth quarry lease over an extent of 3.25.0ha in S.F. No. 1374/1 (Part) at Voyalur-2 Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu by Thiru.B. Saravanan - For Environmental Clearance. (SIA/TN/MIN/157863/2020, Dated: 16.06.2020)**

The proposal was placed in this 405<sup>th</sup> SEAC meeting held on 31.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the

  
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proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation. SEAC noted the following:

1. The Project Proponent, Thiru. B. Saravanan has applied for Environmental Clearance for the Proposed Ordinary Earth quarry lease over an extent of 3.25.0ha in S.F. No. 1374/1 (Part) at Voyalur-2 Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 45 days. The mining plan is for 45 days & production should not exceed 29,250m<sup>3</sup> of Ordinary Earth. The annual peak production 29,250m<sup>3</sup> of Ordinary Earth. The ultimate depth of mining is 0.9m.
4. Pulicat Bird Sanctuary is located at 8.78km (appx.) from the proposed site.

Now, the proposal was placed in the 405<sup>th</sup> SEAC meeting held on 31.08.2023. Based on the presentation and document furnished by the proponent, SEAC decided to call for additional details.

1. Since the Pulicat Bird Sanctuary is located within 10km & its ESZ is yet to be notified, hence the PP shall obtain and submit NBWL Clearance.

On receipt of the above, further deliberations will be carried out. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

**Agenda No: 405 - 22**

**File No: 7802/2020**

**Proposed Ordinary Earth quarry lease over an extent of 3.15.0ha in S.F. No. 230 (Part) at Arumandai Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu by Thiru.R. Prabu - For Environmental Clearance. (SIA/TN/MIN/162348/2020, Dated: 07.07.2020)**

The proposal was placed in this 405<sup>th</sup> SEAC meeting held on 31.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation. SEAC noted the following:

1. The Project Proponent, Thiru.R. Prabu has applied for Environmental Clearance

  
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for the Proposed Ordinary Earth quarry lease over an extent of 3.15.0ha in S.F. No. 230 (Part) at Arumandai Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 45 days. The mining plan is for 45 days & production should not exceed 28,350m<sup>3</sup> of Ordinary Earth. The annual peak production 28,350m<sup>3</sup> of Ordinary Earth. The ultimate depth of mining is 0.9m.

File No	7802/2020	Category	B2
	162348/2020		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.R.Prabu, Chinnaopulapuram Village, Periyaopulapuram Post, Gummidipoondi Taluk, Tiruvallur District – 601201.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Ordinary Earth
3.	S.F Nos. of the quarry site with area break-up	:	230 (PART)
4.	Village in which situated	:	Arumandai
5.	Taluk in which situated	:	Ponneri
6.	District in which situated	:	Tiruvallur
7.	Extent of quarry (in ha.)	:	3.15.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	13°14'24"N to 13°14'30"N 80°12'46"E to 80°12'52"E
9.	Topo Sheet No.	:	66 C/04

10.	Type of mining	:	Opencast Method of Shallow Mining without Drilling & Blasting
11.	Life of Project	:	45 days
	Lease Period	:	45 days
	Mining Plan Period	:	45 days
12.	Mining Plan Details	:	As per approved Mining Plan
			As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Earth - 28,350m <sup>3</sup>
	Minable Resources m <sup>3</sup> (RoM)	:	Earth - 28,350m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Earth - 28,350m <sup>3</sup>
	Maximum Depth in meters	:	0.90m BGL
13.	Depth of water table	:	18m BGL
14.	Man Power requirement per day:	:	09 Nos
15.	Water requirement:	:	2.0 KLD
	1. Drinking water	:	0.5 KLD
	2. Dust suppression	:	1.0 KLD
	3. Green belt	:	0.5 KLD
16.	Power requirement	:	TNEB 4,730 Ltrs of HSD
17.	Precise area communication approved by the District Collector, Dept of G&M	:	Na.Ka.No. 235/2018/Kanimam.1, dated: 25.02.2019
18.	Mining Plan approved by Assistant Director, Dept of Geology & Mining.	:	Rc.No. 235/2018/G&M-1, dated: 10.06.2019
19.	Department of G&M, Assistant Director, 500m Cluster Letter	:	Rc.No. 235/2018/G&M-1, dated: 10.06.2019

  
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20	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 14.11.2018	
21	Project Cost (excluding EMP cost)	:	Rs. 5,43,000	
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.
			Earth	
			Max Total RoM in m <sup>3</sup>	Earth - 28,350m <sup>3</sup>
			Annual Max RoM in m <sup>3</sup>	Earth - 28,350m <sup>3</sup>
		:	Max Depth in mtrs	0.90m BGL
23	EMP cost (in Rs. Lakh).	:	Capital Cost & Recurring Cost – Rs. 3.10 Lakhs	
24	CER cost (in Rs. Lakh).	:	Rs. 1,00,000	

Now, the proposal was placed in the 405<sup>th</sup> SEAC meeting held on 31.08.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 28,350 m<sup>3</sup> of Ordinary Earth by maintaining the ultimate depth of mining of 0.9m and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life for a period of not exceeding one year from the date of lease execution.
2. The Project Proponent shall ensure the duration of lease period for the proposed mining is not less than one year as directed by Hon'ble High Court of Madras (Madurai Bench) in its orders dated 12.02.2021 in W.P.(MD)Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019.

  
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3. The AD (Mines) shall ensure that a proper mechanism evolved for the aforesaid activities to monitor the excavation of Ordinary Earth within the permitted quantity within the leasehold area and its movement before the execution of the lease.
4. The PP shall not carry out drilling & blasting operations in the proposed quarry.
5. As accepted by the Project Proponent the CER cost of Rs. 1,00,000/- and the amount shall be spent for the committed activities Government Primary School, Arumandai Village before obtaining CTO from TNPCB.

Agenda No: 405 – 23

(File No: 3777/2021)

Existing Black Granite lease area over an extent of 4.80.5 Ha in S.F.No. 745, 780 & 786/1 at Puligunda Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Tvl.Bannari Amman Sugars Limited - For Extension of Validity of Environmental Clearance. (SIA/TN/MIN/214898/2021, dated: 11.06.2021)

The proposal was placed in the 405<sup>th</sup> SEAC Meeting held on 31.08.2023. The details, furnished by the Proponent are given in the PARIVESH website. (parivesh.nic.in)

The SEAC noted the following:

1. The project proponent, Tvl. Bannari Amman Sugars Limited, has applied for Extension of validity of earlier issued Environmental Clearance for the existing Black Granite lease area over an extent of 4.80.5 Ha in S.F.No. 745, 780 & 786/1 at Puligunda Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. Earlier EC obtained – Lr.No.SEIAA-TN/F.No.3777/EC/1(a)/2802/2015 dated: 08.02.2016
4. Earlier, the proposal was placed in the 352<sup>nd</sup> SEAC meeting held on 08.02.2023. Based on the presentation made by the proponent and the documents furnished, the SEAC noted the following:

- Previous EC was issued vide Lr.No.SEIAA-TN/F.No.3777/EC/1(a)/2802/2015 dated: 08.02.2016 to Tvl. Bannari Amman Sugars Limited for Black Granite lease area over an extent of

  
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4.80.5 Ha in S.F.No. 745, 780 and 786/1 at Puligunda Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu for the production of 5299 cu.m Black Granite to a depth of 15.5m.

- MoEF&CC Notification S.O. 221(E), Dt: 18.01.2021.
- MoEF&CC Notification S.O. 1807(E), Dt: 12.04.2022.
- MoEF&CCO.M. Dt: 13.12.2022.

During the meeting, the proponent stated that he had submitted proposal for extension of validity of the earlier issued EC vide Lr.No.SEIAA-TN/F.No.3777/EC/1(a)/2802/2015 dated: 08.02.2016 as per the MoEF&CC notification dated 12.04.2022 and O.M dated 13.12.2022 and hence requested for the same.


EC obtained Date	08.02.2016
Lease Deed Registered Date: 11.12.2016	Validity of EC – 07.02.2021
Validity of Extension of EC	S.O. 221 (E) Dated: 18.01.2021 Validity of EC – 07.02.2022
Proponent applied for extension of validity of Environmental Clearance – Form – 6	08.06.2021 (Proposal No.SIA/TN/MIN/214493/2021

SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...

*“The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above.”*

Based on the presentation made by the proponent, the SEAC decided to confirm that the proposal is entitled for ‘automatic extension to the respective increased validity’ as per the aforesaid OM issued by the MoEF& CC subject to the following commitment made by the PP.

1. As accepted by the Project Proponent the CER cost is Rs. 2 Lakh and the

  
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amount shall be spent towards Re-Construction of Toilets for Boys and Maintenance for Thogarapalli Government Higher Secondary School, Krishnagiri, before obtaining CTO from TNPCB.

5. Subsequently, the proposal was placed in the 598<sup>th</sup> Authority meeting held on 01.03.2023. The proposal is placed in this 352<sup>nd</sup> SEAC Meeting held on 08.02.2023. Based on the presentation made by the proponent, the SEAC decided to confirm that the proposal is entitled for 'automatic extension to the respective increased validity' as per the aforesaid OM issued by the MoEF& CC.

The authority after detailed deliberation, noted that

1. The proponent had submitted a proposal for extension of validity of earlier obtained EC vide online number SIA/TN/MIN/214898/2021 dated: 11/06/2021 in Form - 6 through Parivesh Portal.
2. Further, in the additional details to be uploaded in online, the proponent had uploaded Form – 1 submitting following details as below

4	New/ Expansion/ Modernization	It is an existing quarry operating with valid Environmental Clearance vides Lr.No. SEIAA-TN/F.No.3777/EC/1 (a)/2802/2015 Dated:08.02.2016. for the Quantity of 5,749m <sup>3</sup> of Black Granite, now the proposals submitted as increase of production capacity from 5,749m <sup>3</sup> to 25,807m <sup>3</sup>
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From the above, it is ascertained that the proponent himself has accepted that there is an increase in production capacity from 5,749 cu.m to 25,807 cu.m and the proponent had applied in the column pertaining to expansion of production capacity. Hence, applicability of Notification dated: 12.04.2022 and OM clarification 13.12.2022 shall be clarified.

3. Further, in the Form – 1 uploaded by the proponent in Parivesh Portal, S.No.22

The first Scheme of Quarrying was prepared and submitted. Now this second Scheme of Quarrying is prepared and submitted for the period of 2016-17 to 2020-21 (five year).

***The Second Scheme of Mining plan was approved by the Director, Department of Geology and Mining, Guindy, Chennai Vide Letter No. 6250/MM4/2020, Dated: 21.12.2020***

  
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Hence, from the above, it is ascertained that the validity of Scheme of Mining has expired as on Date.

4. The proponent is requested to submit certified compliance certificate (CCR) obtained from IRO, MoEF&CC.
5. The proponent is requested to submit EMP including progressive mine closure plan for the life of mine.
6. Further, the proponent had obtained EC earlier vide Lr. No.SEIAA-TN/F.No.3777/EC/1(a)/2802/2015 dated:08.02.2016 for a production capacity of 5299 cu.m. Hence, the Proponent may be requested to submit details regarding the proposed and achieved quantity during the earlier obtained EC period.

Hence, the proponent may be requested to submit approved scheme of mining.

In the view of the above, SEIAA decided to refer back the proposal to SEAC to examine the above-mentioned points and furnish its recommendation to SEIAA to take further course of action.

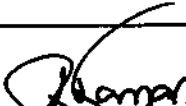
6. Subsequently, the proposal was again placed in the 371<sup>st</sup> SEAC meeting held on 26.04.2023. During the presentation PP requested time to submit additional documents. Hence, SEAC decided to defer the proposal.

QUERY	REPLY
<p>It is ascertained that the proponent himself has accepted that there is an increase in production capacity from 5,749 cu.m to 25,807cu.m and the proponent had applied in the column pertaining to expansion of production capacity. Hence,</p>	<p>EC obtained – 5,299m<sup>3</sup> @ 5 % Recovery (EC letter No Letter SEIAA-TN/F.No.3777/ EC/1(a)/2802/2015)            ROM Amended in EC – 1,05,965m<sup>3</sup> (EC letter No Letter SEIAA-TN/F.No.3777/ EC/1(a)/2802/Amend/2015)            Achieved during the EC Scheme period – 8,060m<sup>3</sup> (7.6 % against the recovery)            Presently we have submitted 3<sup>rd</sup> Approved Scheme of Mining with an proposal of ROM of 1,17,190m<sup>3</sup> which is (10.7 % ) Higher then the approved ROM</p>

  
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<p>applicability of Notification dated: 12.04.2022 and OM clarification 13.12.2022 shall be clarified.</p>	<p>Request to grant EC for the ROM of 1,17,190m<sup>3</sup>.As per the OM Dated 11.04.2022 does not attracts expansion. Besides we would like also submit that we have prepared the following Documents</p> <ol style="list-style-type: none"> <li>1. EMP has been prepared for the entire life of the mine (19 years) refer mining plan Page No. 17</li> <li>2. Furnished Certified Compliance report and affidavit in Tamil</li> <li>3. Valid Approved Scheme of mining for the period 2021 to 2026</li> <li>4. Mining Lease valid up to 2026</li> <li>5. CER as per the committee recommendations</li> <li>6. Application submitted on time for extension i.e., 11.06.2021</li> <li>7. Clarification for extension/expansion vide OM dated 11.04.2022</li> <li>8. Form 6 uploaded in the PARIVESH portal which is required for extension</li> <li>9. Compiled all the EC conditions and will ensure to do the same continuously</li> </ol> <p>as we have submitted the relevant documents necessary for the extension as per the OM dated 12.04.2022 and 11.04.2022.</p> <p>We have applied for Extension on 11.06.2021 as per the OM dated 11.04.2022 our project proposal is enhanced only 10.70% of the earlier approved Environmental Clearance (Amended ROM). Hence our project will fall under the category of extension as per the above said Notification. The document related to extension – Form – 6 is submitted in PARIVESH portal for your kind reference and records.</p>
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Certified Compliance report from the Competent Authority for the existing quarry	Certified Compliance report obtained from the MoEF & CC, Chennai vide F. No. EP/12.1/2020-21/22/TN/424 Dated 22.04.2021 (Extension application submitted on 11.06.2021) * EC granted for the depth of 15.5m it is mentioned in CCR is about 15.75m. The variation in the 0.25m is due to the topographical condition assumption. The average depth calculated was only 15.5m
Valid mine plan/Scheme of mining and approval letter.	3rd Scheme of Mining plan has been approved by the Director, Directorate of Geology and Mining vide Letter No. 507/MM4/2022 Dated 14.03.2022 and valid up to 2026
The Proponent has requested to submit EMP including progressive mine closure plan for the life of mine.	EMP has been revised including mine closure plan for the life of the mine. Same has been enclosed in the following slides. Valid up to 2026 (Lease period)

Now, the proposal was again placed in the 405<sup>th</sup> SEAC meeting held on 31.08.2023. Based on the presentation and documents furnished by the proponent and after carefully examining the reply furnished, SEAC decided to reiterate its recommendation already made in the 352<sup>nd</sup> SEAC meeting held on 08.02.2023 subject to the following condition

1. As accepted by the Project Proponent the CER cost is Rs. 8 Lakh and the amount shall be spent towards committed activities for Thogarapalli Government Higher Secondary School, Krishnagiri, before obtaining CTO from TNPCB.

Sl. No.	Description	CER Cost INR
1	Construction of Toilets and its maintenance	Rs.2,50,000/-
2	Painting of Classrooms	Rs.1,00,000/-

  
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3	Providing Computer & Printer to the school	Rs.1,00,000/-
4	Providing Environmental related books to school library	Rs.20,000/-
5	Carrying out plantation in the school ground around 100Nos	Rs.30,000/-
6	Renovation of Science Lab for 11 <sup>th</sup> and 12 <sup>th</sup> Standard	Rs 3,00,000/-
<b>TOTAL</b>		<b>Rs. 8,00,000/-</b>

**Agenda No: 405 - 24**

**(File No: 9927/2023)**

**Proposed Construction of Non-High-Rise Residential Building – development by M/s. Sidharth Foundation & Housing Limited at S.F.Nos. 446/1, 448/1A, 449/12B1, 450 & 451/2 of Gerugambakkam Village, Kundrathur Taluk, Kanchipuram District, Tamil Nadu - For Environmental Clearance. (SIA/TN/INFRA2/422533/2023, Dated: 18.03.2023)**

The proposal was placed in 405<sup>th</sup> SEAC meeting held on 31.08.2023. 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. Sidharth Foundation & Housing Limited has applied for Environmental Clearance for the Proposed Construction of Non-High-Rise Residential Building – development at S.F.Nos. 446/1, 448/1A, 449/12B1, 450 & 451/2 of Gerugambakkam Village, Kundrathur Taluk, Kanchipuram District, Tamil Nadu.
2. The project/activity is covered under Category “B2” of Item 8(a) “Building & Construction Projects” of the Schedule to the EIA Notification, 2006.
3. Total Land area is 10,142.97 Sq.m & the built – up area is 27,177.79 Sq.m
4. Earlier, the proposal was placed in the 385<sup>th</sup> SEAC meeting held on 22.06.2023. Based on the presentation and documents furnished by the proponent, SEAC decided to call for additional details, as the land use data was found to be incorrect and misleading.

  
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1. The proponent shall check all the data submitted and shall revise wherever required.
2. The EIA coordinator shall offer explanation for presenting incorrect data.


Upon the receipt of aforesaid details, further deliberations will be done.

Based on the reply furnished by the Project proponent to the O/o. SEIAA on 17.07.2023. The proposal was again placed in the 405<sup>th</sup> SEAC meeting held on 31.08.2023.

Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. The environmental clearance is sought for Construction Project at Plot No: 446/1, 448/1A, 449/12B1, 450 & 451/2, Gerugambakkam village, Kundrathur Taluk, Kanchipuram District, Tamil Nadu by the PP M/s Sidharth Foundation & Housing Limited.
2. M/s Eco Tech Labs Pvt. Ltd is the EIA Consultant for the project.
3. Total plot area of the project is 9900 m<sup>2</sup> and built-up area is 24713.75 m<sup>2</sup> respectively.
4. Maximum number of floors will be S+5 and maximum height of the building will be 38 m.
5. Total Saleable DU's (dwelling units) is 209.
6. Salient features of the project as submitted by the project proponent:

Name and Address of the PP		Name of the Consultant
Name and Address of the PP M/s.Sidharth Foundations and Housing Limited, No.117, Citi towers, Sir Thyagaraya Road, T.Nagar, Chennai-600017		Name of the Consultant M/s. Eco Tech Labs Pvt. Ltd
<b>A.Site Location Details</b>		
1.	Location	Gerugambakkam village, Kundrathur taluk, Kanchipuram District
2.	Latitude & Longitude	13°0'7.67"N& 80°8'3.06"E

  
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3.	Survey Nos	446/1, 448/1A, 449/12B1, 450 & 451/2
4.	Area in Hectares	1.2140
5.	Ownership Details	M/s Sidharth Foundations and Housing Limited
6.	Any legal Disputes	Nil
7.	Waterbodies/Rivers/Canals	<ul style="list-style-type: none"> <li>• Adyar River (0.79 km, SSE)</li> <li>• Pallavaram Lake (4.89 km, SSE )</li> <li>• Nemilichery lake (5.95 km, SSE)</li> <li>• Kilkattalai lake (7.31 km, SSE)</li> <li>• Nanmangalamlake(7.24 km, SSE)</li> <li>• Chembarambakkam lake (5.67 km, W)</li> <li>• Porurlake(3.90 km, NNE)</li> <li>• Ramapuram Eri(6.19 km, NE)</li> </ul>
8.	Vulnerability to Inundation	Nil
9.	Protected area nearby (Wildlife Protection Act)	Nil
10.	Previous EC/History in SEIAA	Nil

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	9900	SQMT
2	Proposed Built Up Area	27177.79	SQMT
3	Total no of Saleable DU's/Villas	209	No.
4	Max Height - (Height of tallest block)	38	M

  
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5	No of Building Blocks (Residential + Community facilities)	2	
6	Max No of Floors	5	No.
7	Expected Population (XXX Residential+ XXXX Floating)	981	No.
8	Total Cost of Project	86	CR
9	Project Activity :		
<b>AREAS</b>			
10	Permissible Ground Coverage Area (xx%)	4689.04	SQMT
11	Proposed Ground Coverage Area (xx%)	4689.04	SQMT
12	Permissible FSI Area (xxx)	2.00	SQMT
13	Proposed FSI Area	19725.04	SQMT
14	Other Non FSI Areas - including basement area etc.	-	SQMT
15	Proposed Total Built Up Area	27177.79	SQMT
<b>WATER</b>			
16	Total Water Requirement	133	KLD
17	Fresh water requirement	83	KLD
18	Treated Water Requirement	50	KLD
19	Wastewater Generation	113	KLD
20	Proposed Capacity of STP	140	KLD
21	Treated Water Available for Reuse	50	KLD

  
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22	Treated Water Recycled	107	KLD
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	57	KLD
<b>RAINWATER HARVESTING</b>			
24	Rainwater Harvesting - Recharge Pits	19	No.
25	Rainwater Harvesting Sump Capacity	65	M <sup>3</sup>
<b>PARKING</b>			
25	Total Parking Required as / Building Bye Laws	917.30	ECS
26	Proposed Total Parking	2554.40	ECS
27	Parking in Basements	-	ECS
<b>GREEN AREA</b>			
28	Proposed Green Area (Minimum 15.0% of plot area)	1490	SQMT
	Total area	27177.79	
	Existing trees on plot	-	
	Number of trees to be planted	124	
	Number of trees to be transplanted/cut	-	
<b>SOLID WASTE MANAGEMENT</b>			
29	Total Solid Waste Generation	474.1	TPD
30	Organic waste	185.64	TPD

  
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31	Mode of Treatment & Disposal	Organic waste converter	TPD
32	Quantity of Sludge Generated from STP & Disposal	10	KG/DAY
33	Quantity of E-Waste Generation & Disposal	-	KG/DAY
34	Quantity of Hazardous waste Generation & Disposal	-	LPD
<b>POWER / GREEN POWER</b>			
34	Total Power Requirement	1700 KVA	KW
35	DG set backup	2 No.of 160KVA and 1 No.of 125KVA	KVA
36	No of DG Sets	3	No.
37	Solar Panels – Roof Coverage	3057.55	%
38	Hot Water Requirement	50 % of total population 490numbers	
	Of which met by Solar Panels		

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's	209	981	

Total	209		
Non Residential	-	-	-
CLUB house (Employees etc. )	Area	-	-
Club	-	-	-
Commercial	-	-	-
Facility Management Staff	-	-	-
Total			
Visitors			
Residential		xx% of Residential Population	
Club/Community Hall		xx% of Residential Population	
Commercial			
Total Visitors			
Total Population			
EMP Cost	Construction phase =4.5 lakhs  Capital cost=240.73 lakhs		

  
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	Recurring cost = 19.66 lakhs		
CER Cost	90 lakhs		
Details of CER Activities	<b>S. No.</b>	<b>CER Activity</b>	<b>Action Plan</b>
	1	Government school, Gerugambakkam – 0.80 km, N	Completed within 1 year from the commencement of construction
	2	Government School, Tharapakkam – 1.07 km, SW	
	3	Government secondary school, Kolapakkam-1.69 km, NE	
	4	Adi Dravidar Government high school, Thandalam-1.52 km, W	
	5	Girls Government School, kovur-1.54km, NW	
	Total Cost Allocation 90 Lakhs		

**RECOMMENDATION OF THE COMMITTEE**

The Committee discussed the matter and recommended a grant of environmental clearance for the project proposal as above and subject to the standard conditions as per the Annexure II of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Platinum rating.

  
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2. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
3. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
4. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.
5. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
6. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.
7. The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
8. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
9. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly.
10. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring

  
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mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.

11. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.
12. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

**Agenda No: 405 - 25**

**(File No: 6829/2023)**

**Proposed Rough Stone and earth quarry lease area over an extent of Extent 2.06.0 Ha at SF.No. 8/1B & 8/2 of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu by Tvl. Sri Santhosh Blue Metals - For Environmental Clearance. (SIA/TN/MIN/416799/2023, Dated: 03.02.2023)**

The proposal was placed for appraisal in this 405th SEAC meeting held on 31.08.2023. 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, Tvl. Sri Santhosh Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone and earth quarry lease area over an extent of Extent 2.06.0 Ha at S.F.No. 8/1B & 8/2 of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 2,98,440m<sup>3</sup> of Rough stone and 30,740m<sup>3</sup> of Gravel with an ultimate depth of Mining 47m below ground level.
4. ToR issued vide - Lr No -SEIAA-TN/F.No.6829/SEAC/ToR-968/2021, Dated: 05.07.2021.
5. Public hearing was conducted on Dated 12.04.2022.
6. Earlier, the proposal was placed in the 370<sup>th</sup> SEAC Meeting held on 25.04.2023. The EIA Coordinator requested to postpone and reschedule the meeting. Hence, the proposal was not taken up for appraisal.

  
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7. Again, the proposal was again placed in the 389<sup>th</sup> SEAC meeting held on 06.07.2023. The EIA Coordinator requested to postpone and reschedule the meeting. Hence, the proposal was not taken up for appraisal.

File No		6829/2023	Category		B1
		416799/2023			1(a)
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	M/s. Sri Santhosh Blue Metals, No. 173/1, Sarkkar Thoppu, Tindivanam Taluk, Viluppuram-604001.		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Earth		
3.	S.F Nos. of the quarry site with area break-up	:	8/1B & 8/2		
4.	Village in which situated	:	Thollamur		
5.	Taluk in which situated	:	Vanur		
6.	District in which situated	:	Viluppuram		
7.	Extent of quarry (in ha.)	:	2.06.0 Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	12°03'30"N to 12°03'36"N 79°40'23"E to 79°40'30"E		
9.	Topo Sheet No.	:	57 - P/12		
10.	Type of mining	:	Opencast Semi-Mechanized Mining		
11.	Life of Project	:	5 years		
	Lease Period	:	10 years		
	Mining Plan Period	:	5 years		
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC	
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone - 9,14,130m <sup>3</sup>	Rough Stone - 9,14,130m <sup>3</sup>	

  
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			Earth - 40,628m <sup>3</sup>	Earth - 40,628m <sup>3</sup>
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone - 2,98,440m <sup>3</sup>	Rough Stone - 2,89,870m <sup>3</sup>
			Earth - 30,740m <sup>3</sup>	Earth - 30,740m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone - 59,935m <sup>3</sup>	Rough Stone - 59,935m <sup>3</sup>
			Earth - 24,650m <sup>3</sup>	Earth - 24,650m <sup>3</sup>
	Maximum Depth in meters	:	47m BGL	37m BGL
13.	Depth of water table	:	52m in rainy season & 55m in summer seasons	
14.	Man Power requirement per day:	:	19 Nos	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	2.0 KLD 0.5 KLD 1.0 KLD 0.5 KLD	
16.	Power requirement	:	TNEB 1,54,340 Ltrs of HSD	
17.	Precise area communication approved by the District Collector, Dept of G&M	:	Rc.No.A/G&M/357/2018, dated: 04.01.2019	
18.	Mining Plan approved by Assistant Director, Dept of Geology & Mining.	:	Rc.No.A/G&M/357/2018, dated: 04.02.2019	
19.	Department of G&M, Assistant Director, 500m Cluster Letter	:	Rc.No.A/G&M/357/2018, dated: 11.04.2019	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 30.06.2023	

  
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21.	Project Cost (excluding EMP cost)	:	Rs. 62.24,000		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Earth
			Max Total RoM in m <sup>3</sup>	2,89,870m <sup>3</sup>	30,740 m <sup>3</sup>
			Annual Max RoM in m <sup>3</sup>	59,935m <sup>3</sup>	24,650 m <sup>3</sup>
	Max Depth in mtrs		37m BGL		
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 28.67.200 Recurring Cost – Rs. 13.31.000		
24.	ToR Issued Details		Lr.No. SEIAA- TN/F.No.6829/SEAC/ToR-968/2021 Dated: 05.07.2021.		
25.	Public Hearing Conducted on		12.04.2022		
26.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000		

Now, the proposal was again placed in the 405<sup>th</sup> SEAC meeting held on 31.08.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding an annual peak production of 59,935 m<sup>3</sup> of Rough Stone by maintaining the ultimate depth of mining up to 37m and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved

  
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and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.

2. The proponent shall develop fencing all around the project area & around the abandoned pits situated near the proposed project area in order to ensure safety before the execution of the lease.
3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of one year from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, 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.
4. 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 wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
5. As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone during the 3<sup>rd</sup> year of quarrying operation, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of

Mining Engg. Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, 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.

6. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government Higher Secondary School, Karasanur before obtaining CTO from TNPCB.

Any other matters with the permission of chairman, the following was discussed.

**Agenda No: 405 – TA 1**

It is the present practice to do site-inspections of certain proposals, especially in all violation cases was discussed in detail.

SEAC, after careful examination, decided that site inspections, hereafter, shall be carried out only in rare cases where only site-inspection alone can bring out the truth regarding site conditions. This will also enable the Committee to expedite the compliance process in accordance with the timeline prescribed by EIA Notification, 2006.

**Agenda No: 405 -TA 2.**

**(File No:6056/2018)**

**Existing Multi Colour Granite over an extent of 1.28.5 Ha at S.F. Nos. 168, 169/8A & 169/8B at Pudukkottai Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by M/s. Chindia Granites, for Environmental Clearance “Under Violation”. (SIA/TN/MIN/142423/2007 Dt:14.10.2019).**

Earlier, the proposal was placed in 340<sup>th</sup> SEAC meeting held on 23.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following**

1. The Project Proponent, M/s. Chindia Granites has applied for Environmental Clearance under Violation along with EIA Report & along with assessment of ecological damage, remediation plan and natural and community resource

  
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augmentation plan for the Existing Multi Colour Granite Quarry over an extent of 1.28.5 Ha at S.F. Nos. 168, 169/8A & 169/8B at Pudukottai Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Online Application under Violation No. SIA/TN/MIN/23281/2018 dated: 02.04.2018
4. The ToR under violation for carrying out the EIA study under violation issued vide Lr. No.SEIAA-TN/F.No.6056/TOR- 322 /2018 Dated: 10.05.2018.
5. ToR Amendment for ToR under Violation with Public Hearing issued vide Lr. . No.SEIAA-TN/F – 6056/SEAC- CXVIII/TOR- 322(A)/2018 Dt.30.07.2018
6. The project proponent has obtained Mining lease vide G.O.(3D). No.14, Industries (MMB-2) department Dated 05.03.2010.
7. MoEF&CC, Office Memorandum Dt:12.11.2020.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to make site inspection by the sub-committee to be constituted by the SEAC to assess the present status of the project and environmental settings as the proposal falls under violation category. Further the subcommittee will assess the ecological damage and to check the Remedial Plan & Community Augmentation Plan submitted by the PP during the inspection. Further, as per the PP request for exemption of public hearing, SEAC has decided to exempt public hearing as per MoEF&CC, Office Memorandum Dt:12.11.2020 based on the recommendation of site inspection report by Sub Committee constituted by SEAC.

1. Copy of valid mining lease approval obtained from the competent Authority.
2. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
3. Copy of request letter submitted by PP for renewal of mining plan.
4. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.

  
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5. Copy of total penalty levied by the AD/DD, Dept of Geology and Mining, Villupuram District and copy of remittance of total penalty by PP.
6. 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.
7. 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.

On the receipt of the sub-committee report, further deliberation will be carried out in the forthcoming Committee Meeting. Further the PP shall withdraw the duplicate files with online number 42423 (ToR application) dated 14.10.2019 & 58845, dated. 07.09.2016.

The proposal was again placed in 405<sup>th</sup> meeting of SEAC held on 31.08.2023 and the Sub Committee inspected the site on 14.02.2023 and submitted the site inspection report on 31.08.2023 as detailed below:

**M/S. CHINDIA GRANITES (P) LTD** continued to operate the mines without obtaining Environment Clearance (EC) after 15.01.2016 under EIA Notification, 2006 and declared as violation case as per MoEF CC Notification S.O 804(E) dated 14.03.2017. In view of the above the proponent **M/S. CHINDIA GRANITES (P) LTD** applied for grant of specific ToR to EAC, New Delhi on 02.05.2017 vide proposal no: IA/TN/MIN/64354/2017 as per MoEF&CC Notification S.O 804(E) dated 14.03.2017.

The ministry has issued another Notification No.S.O 1030 (E) dated 08.03.2018 that the projects/activities covered under category 'B' shall be considered by SEAC/SEIAAs in the respective states. In view of the above the proponent submitted the application again by ONLINE to SEIAA vide file No. SIA/TN/MIN/58844/2016 dated 2018. Then, the proposal has been placed in 106<sup>th</sup> STATE EXPERT APPRAISAL COMMITTEE (SEAC) MEETING ON 5<sup>th</sup>April 2018 and granted Terms of Reference vide Lr.No.SEIAA-TN/F.No.6056/TOR-322/2018 dated 10.05.2018 for preparation of EIA/EMP report including Ecological damage assessment, remediation plan, natural resource

  
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augmentation and community resource augmentation for obtaining Environment Clearance from SEIAA/SEAC, Tamil Nadu.

## 2. Chronology

Sl. No	Sequence of events	Date
1.	ToR applied under violation category Online Proposal No. SIA/TN/MIN/58844/2016. SEIAA File No. 6056/2018	02.04.2018
2.	ToR granted under violation category vide SEIAA-TN/F.No.6056/TOR-322/2018	10.05.2018
3.	Public Hearing Conducted	As per MoEF&CC: OM F.No.22-28/2020-IA.III, dated 12.11.2020, PP requested SEAC to exempt the project from PH
4.	EC (EIA Report with EMP) Application applied vide Online Proposal No. SIA/TN/MIN/42423/2007	14.10.2019
5.	SEAC meeting held on	23.12.2022
6.	SEAC sub-committee visited the area vide SEAC – TN/1260 Site Inspection/2022, dt.23.09.2022	14.02.2023

## 3. Salient Features of the Project

S. No	Particulars	Details
1.	Latitude & Longitude	9°34'05.25" N to 9°34'11.14" N 77°48'55.22" E to 77°48'59.73" E
2.	Site Elevation above MSL	107 m AMSL
3.	Topography	Flat terrain
4.	Lease area Topo Sheet details	58 G/14
5.	Land use of the site	Patta land
6.	Lease Period	02.01.2004 to 01.01.2024 (20 years)
7.	Depth of Mining	37m (Proposed)

  
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8.	Method of mining	Opencast Semi- mechanized method of mining
9.	Water Requirement (KLD)	6 KLD
10.	Source of water	Private Tankers
11.	Power Requirement	60 kVA
12.	DG set capacity	1 * 125 kVA (will be used during power failure)
13.	Fuel Requirements (Diesel)	50L/Day
14.	Manpower	15 Nos
15.	Eco Sensitivity	<p>a. There is no wildlife sanctuary within 10 km under the Wildlife Protection Act 1972.</p> <p>b. Bay of Bengal –85 km (SE)</p> <p>c. There is no reserve forest is situated around 10kms radius.</p> <p>d. There is no interstate boundary within 10kms radius from periphery of proposed quarry site.</p>
16.	Proposed Production Capacity (40%)	6156 m <sup>3</sup> per annum (avg) as per SOM 2019-20 to 2023-24
17.	Seismicity	Seismic zone-II (Low risk)
18.	Project Cost	Rs. 50.70 Lakhs

#### Other Salient Features of the Project

S. No	Description	Details, Direction & Distance from lease boundary (~km)
1	Nearest Habitation	Vellur village – 1.4 km -E
2	Nearest Airport	Madurai Airport -41.7km - NE
3	Nearest Railway Station	Thiruthangal Railway station – 11 km - S

4	Nearest Town	Sivakasi- 12km - S		
5	Nearest Primary Health centre	Primary Health centre – Kalaiyarkurichi –4.8km -SW		
6	State & National Boundaries	There is no interstate boundary around 10 km radius of the lease area. Tamilnadu - Kerala Interstate Boundary – 46.7km – West.		
5. No	Name of Villages	Distance (≈km)	Direction from project site	Population (Census 2011)
1	Pudukottai	3	N	1789
2	Kalaiyarkurichi	2.5	S	4563
3	Vellur	3.5	E	5789
4	Mettupatti	1.5	W	6498

#### 4. Mining Lease Details

Sl. No.	ML Grant	ML Grant Reference	Validity	
			From	To
1	Initial Grant	G.O (3D) No.62 Industries (MMB-2) Department dated 15.12.2003.	02.01.2004	01.01.2024
2	Renewal lease	Nil	Nil	Nil

#### 5. Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval by CGM Reference
1	Mining Plan	2004-2009	Letter No.7085/MMB2/2002 dated 28.11.2003
2	1 <sup>st</sup> Scheme of Mining	2009-2014	Deemed approval under Rule 18(2) of GCDR 1999
3.	2 <sup>nd</sup> Scheme of Mining	2014-2019	
4.	3 <sup>rd</sup> Scheme of Mining	2019-2024	

#### 6. Details of Mining

Sl. No.	Particulars	Details
1	Method of mining	Open cast semi mechanized

  
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2	Updated Geological reserves as per 3 <sup>rd</sup> SOM	179503 cu.m
3	Updated Mineable reserves as per 3 <sup>rd</sup> SOM	76954 cu.m
4	Proposed production per Annum (40%)	6156 m <sup>3</sup> per annum (Avg) 6677 m <sup>3</sup> per annum (Max)
5	Elevation range of the mine site	107m
6	Bench height	6 m
7	Bench width	Not exceeding 6 m
8	Bench slope	60°
9	Proposed Depth of mining	37m (Proposed)
10	Life of mine	20 years

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

1. The granite quarry of M/S. CHINDIA GRANITES (P) LTD over an extent of 1.28.5 Ha is located in Pudukottai Villages, Sivakasi Taluk, Virudhunagar District.
2. As submitted and verified, the mining Lease was under G.O (3D) No.62 Industries (MMB-2) Department dated 15.12.2003 for a period of 20 years. The lease deed was executed on 02.01.2004 and will expire on 01.01.2024. The mine was opened on 02.01.2004.
3. A copy of the present SOM 2019-2024 were submitted for approval. Any Mining Plan/Scheme if not approved within 90 days, the lessee shall continue the quarry operation and considered as deemed approval as per Rule 18 (5) of Granite Conservation and Development Rules, 1999.
4. No consent from TNPCB was obtained for the Mine.
5. The Lease is accessible from State Highway-42 which runs at a distance of 6km from the Lease. The village road is located at the distance of 420m in north direction and it connects the MDR and SH 42 in east and west direction respectively.
6. Habitation is located at the distance of 1.4km from the Lease in east direction.
7. There is another one quarry located within 500m radius of the M/S. CHINDIA GRANITES (P) LTD.
8. The Lease is fenced with barbed wire in all sides and boundary pillars marked are noticed with geo Coordinates.

  
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9. Mine is not in operation and Pit is filled with rain water.
10. As reported, the mine is not in operation since Jan 2017.
11. The mine offices, Rest Shelter, First Aid facility, are available adjacent to mining lease area.
12. Garland drains will be developed around the Pit are covered with soil.
13. No Top Soil or Over Burden dump is noticed in the Lease area .
14. Developed Green belt is noticed in around mine offices, Rest Shelter, First Aid facility. However, PP has now planted new saplings along the peripheries of the Lease.
15. The Project has a Qualified First Class Mines Manager, Second Class Mines Manager, Mine Mate and Geologist who were present for discussions during the Inspection.
16. As informed, environmentally friendly Mining activity, mechanized method using excavator was carried out in the Lease during the Violation Period upto a depth of 21 m BGL and no ground water- table intersection was encountered.
17. Mineral transportation route exists to reach SH-42 for the transportation of minerals through the village road.

#### **Status of Mining Operation**

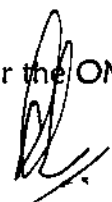
The Mining activities were stopped from 10.01.2017 and there was no production from this Mine since then. The mining plan was approved by Department of Geology and Mining, Guindy, Chennai vide Letter No.7085/MMB2/2002 dated 28.11.2003. The first scheme of mining was prepared for the year 2009 – 2014. To comply with the Rule 18(2) of GCDR 1999, the present scheme of mining was submitted for the period 2014-15 to 2018-2019. Any Mining Plan/Scheme if not approved within 90 days, the lessee shall continue the quarry operation and considered as deemed approval as per Rule 18 (5) of Granite Conservation and Development Rules, 1999. Consents to Operate from Tamil Nadu Pollution Control Board (TNPCB) are to be obtained after getting EC from SEAC.

#### **Violation**

##### **Penalty for violation**

Affidavit has been submitted in proper format to pay Penalty as per the OM issued

  
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by the MOEFCC - S.O 804(E) dated 14.03.2017. 100% penalty is claimed as Rs 48,00,000 by DGM as applicable. The PP shall be required to pay 100% penalty towards the exploitation of mineral without obtaining the prior Environment Clearance is claimed as by DGM.

### Damage Cost Evaluation

SEAC Sub-committee inspected the project site and the documents of project cost details were verified. The level of damage is assessed by the following criteria:

1. Low level Ecological damage: Only procedural violation – work/operation at site without obtaining EC.
2. Medium level Ecological damage:
  - a. Procedural violation started the construction at site or operation without obtaining EC.
  - b. Infrastructural violation such as deviation from awarded EC, CTO & Mining Plan approvals.
  - c. Non operation of the project.
3. High level Ecological damage: a. Procedural violation (started the construction or operation at site without obtaining EC).
  - a. Infrastructural violation such as deviation from awarded EC, CTO & Mining Plan approvals.
  - b. Under Operation (occupied) without Statutory Approvals.


### VIOLATION

M/S. CHINDIA GRANITES (P) LTD continued to operate the mines without obtaining Environment Clearance (EC) after 15.01.2016 under EIA Notification, 2006 and declared as violation case as per MoEF CC Notification S.O 804(E) dated 14.03.2017.

The Proposal falls in Low Level Ecological Damage Category.

### CER Budget-Committed

The PP had committed to provide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC appraisal.

  
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About Rs.3.0 Lakhs has to be allotted as Corporate Environmental Responsibility (CER) Budget in compliance with MoEF&CC OM dated 01.05.2018 for execution within 2 years period. As directed by the Committee, PP has identified 1 School viz. Govt. High School for developing library and sanitary facilities in the Government school in the nearest villages and tree planting in and around the Govt school and allotted Rs.3.0 Lakhs for the same. (Govt. Primary school of Pudukottai Village)

**CONCLUSIONS:**

As the Proposal falls in Low Level Ecological Damage during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived based on the CPCB Guidelines is Rs. 36,10,000/- which is higher than the other estimations - Environmental Damage & Compensation values of Rs. 2,00,000/- based on the EIA model prepared by the EIA coordinator and Rs. 2,57,000/- based on SEAC Model. Therefore, the aforesaid value of Rs. 36,10,000/- must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan as follows:

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	18,05,000
2	Natural Resource Augmentation Plan	9,02,500
3	Community Resource Augmentation Plan	9,02,500
<b>Grand Total</b>		<b>36,10,000</b>

Besides, the PP have allocated about Rs.3.0 Lakhs as Corporate Environmental Responsibility (CER) Budget for execution within 2 years period. As directed by the Committee, PP has identified 1 School viz. Govt. High School for developing library and sanitary facilities in the Government school in the nearest villages and tree planting in and around the Govt School and allotted Rs.3.0 Lakhs for the same. (Govt. Primary school of Pudukottai Village)

**STATUTORY PROCEDURES TO BE FOLLOWED:**

1. The Bank Guarantee for Rs. 36,10,000/- must be given to TNPCB for successful implementation of the Schemes in 1 year period. The Bank Guarantee will be

  
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released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.

2. CER fund of Rs. 3.00 Lakhs has to be spent by the PP as committed during the appraisal and receipt has to be produced to SEAC/SEIAA-TN for awarding the EC.
3. Credible Action under Section 19 of the E (P) Act shall also be complied for awarding the EC.

### RECOMMENDATIONS

The SEAC Sub-Committee observed that the Mining of Multi-Colour Granite in an extent of 1.28.5 Ha with S.F No of 168, 169/8A, 169/8B for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms pertaining to the Granite deposits. Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Black Granite with an Annual Peak Production Capacity of not exceeding 16692 m<sup>3</sup> of ROM for the life of the project in an extent of 1.28.5 Ha SF No. 168, 169/8A, 169/8B of M/s Chindia Granites Private Ltd, Virudhunagar District may be considered subject to the following conditions in addition to the normal conditions:

1. The amount prescribed for Ecological remediation (Rs. 18,05,000), natural resource augmentation (Rs. 9,02,500) & community resource augmentation (Rs. 9,02,500), totaling Rs.36,10,000/-. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 36,10,000/- in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated below:

#### Environment Remediation Plan, Cost and Time Schedule (As proposed)

S.No	Environmental component	Remediation Plan/ Activity Description	Budgetary Provision Rs. Lakhs			Total Rs. Lakhs
			I	II	III	
1	Air Quality and Ecology	Additional Green Belt by Planting 150 Trees in Mine lease	2.0	2.0	2.0	6.0

  
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		boundary @ Rs.200 per tree including its maintenance				
2	Solid wastes	Development of garland drainages around the dumps	2.0	2.05	2.0	6.05
3	Occupational Health and Risk & Public Health	Conducting Medical Camp for the workers and people in nearest habitation	2.0	2.0	2.0	6.0
Total			6.0	6.05	6.0	18.05

### 15. Natural and Community Resource Augmentation Plan (Proposed)


#### Natural Resource Augmentation Plan

Sl. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
		I	II	III	
1	Plantation in common areas of villages like bus stops, Govt hospitals, VAO offices (50 Trees)	2.02	2.00	0.005	4,02,500
2	Installing the solar street light (lamps) with posts in nearby villages	2.00	2.00	1.00	5,00,000
Total		4.02	4.00	1.005	9,02,500

#### Community Resource Augmentation Plan

Sl. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
		I	II	III	
1	Developing Library facility in the nearest Government school	2.02	2.00	0.005	4,02,500
2	Installation of RO Plant for safe drinking water supply to the Government schools in Nearest Village. (Capacity = 50LPH – 32 Nos)	2.00	2.00	1.00	5,00,000
Total		4.02	4.00	1.005	9,02,500

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. If not, the bank guarantee will be forfeited to TNPCB without further notice.
3. The amount committed by the Project proponent for CER (Rs. 3.00 Lakhs) shall be spent for the activities committed by the proponent before obtaining the CTO from the DEE/TNPCB. A copy of acknowledgement on the work carried out by the PP from the beneficiary shall be submitted to SEIAA-TN.
4. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac. 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
5. The PP shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining before grant of EC, if not produced earlier.
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 2.00 Ha in a phase manner as a part of mine closure activities.
7. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) 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.
8. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
9. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.

  
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10. 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.
11. The proponent shall obtain a 'Star Rating' system awarded by Anna University, Chennai annually to the mining lease being operated for their efforts and initiatives taken for successful implementation of the Sustainable Development Framework (SDF).
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.

#### RECOMMENDATIONS

SEAC carefully examined the proposal and the remarks and the recommendations made by the Sub-Committee. The SEAC have observed that the Mining of Black Granite in an extent of 1.28.5 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 Black Granite in an extent of 1.28.5 Ha SF No. 168, 169/8A, 169/8B of M/s Chindia Granites Private Ltd, Virudhunagar District for the Annual Peak Production Capacity of not exceeding 16692 m<sup>3</sup> of ROM for the life of the project 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.
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

  
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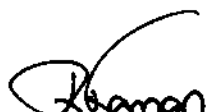
Dues Certificate' obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC, if already not produced.

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. 18,05,000), natural resource augmentation (Rs. 9,02,500) & community resource augmentation (Rs. 9,02,500), totaling Rs.36,10,000/-. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 36,10,000/- in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated below:

**Environment Remediation Plan, Cost and Time Schedule (As proposed)**

S.No	Environmental component	Remediation Plan/ Activity Description	To be completed within 1 year from the date of issue of EC.
1	Air Quality and Ecology	Additional Green Belt by Planting 150 Trees in Mine lease boundary @ Rs.200 per tree including its maintenance	6.0
2	Solid wastes	Development of garland drainages around the dumps	6.05
3	Occupational Health and Risk & Public Health	Conducting Medical Camp for the workers and people in nearest habitation	6.0
<b>Total</b>			<b>18.05</b>

**15. Natural and Community Resource Augmentation Plan (Proposed)**

  
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### Natural Resource Augmentation Plan

Sl. No.	Activity Proposed	To be completed within 1 year from the date of issue of EC.
1	Plantation in common areas of villages like bus stops, Govt hospitals, VAO offices (50 Trees)	4,02,500
2	Installing the solar street light (lamps) with posts in nearby villages	5,00,000
<b>Total</b>		<b>9,02,500</b>

### Community Resource Augmentation Plan

Sl. No.	Activity Proposed	To be completed within 1 year from the date of issue of EC.
1	Developing Library facility in the nearest Government school	4,02,500
2	Installation of RO Plant for safe drinking water supply to the Government schools in Nearest Village. (Capacity = 50LPH – 32 Nos)	5,00,000
<b>Total</b>		<b>9,02,500</b>

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. If not, the bank guarantee will be forfeited to TNPCB without further notice.
6. The amount committed by the Project proponent for CER (Rs. 3.00 Lakhs) shall be spent for the activities committed by the proponent before obtaining the CTO from the DEE/TNPCB. A copy of acknowledgement on the work carried out by the PP from the beneficiary shall be submitted to SEIAA-TN.
7. 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.

8. The proposed action plan for green belt development shall be maintained in the dumps and haul roads of the overall project area.
9. 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.
10. 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.
11. 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.
12. 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


  
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such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

13. 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.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
16. As per the MoEF & CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished for the life of the project.
17. 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.

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## ANNEXURE-I

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

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

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

  
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### GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

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

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



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

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

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

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


  
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### ROUGH STONE/JELLY/BLUE METAL QUARRY

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

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

  
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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.
- 37) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.

- 38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 40) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
- 41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

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

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

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

  
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## TERMS OF REFERENCE (TOR) FOR GRANITE / ROUGH STONE QUARRY

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

7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall 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.
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/EEMP 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.
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 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, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
  5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.
  6. Wet jet shall be provided for grinding and stone cutting.
  7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.
  8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly

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

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

### 3. Water Quality Monitoring and Preservation:

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

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

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

#### 4. Noise Monitoring and Prevention:

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

#### 5. Energy Conservation Measures:

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

6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.

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

**6. Waste Management:**

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.

2. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.

4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.

5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.

7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction



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

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

**7. Green Cover:**

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

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

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

**8. Transport:**

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

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.
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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**Appendix -I**  
**List of Native Trees Suggested for Planting**

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	வில்வம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebbeck</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Purnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சர்க்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசமரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கொங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூலி
18	<i>Creteva adansonii</i>	Mavalingum	மாவிலங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகையை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூங்க
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில மரம், ஆயிலி
27	<i>Lanea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பின்பட்டை, பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனை
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனை
38	<i>Phoenix sylvestre</i>	Eachai	நச்சமரம்
39	<i>Pongamia pinnat</i>	Pingam	பிங்கம்

40	<i>Premna mollissima</i>	Murnai	முள்ளை
41	<i>Premna serratifolia</i>	Naruminnai	நறு முள்ளை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூங்க
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வெண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	பூவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபாலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்பங்கள் சோபுகாய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாள் கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்திரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வெண் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூங்க
59	<i>Walsuratrifoliata</i>	valsura	வால்கரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பழி

  
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Appendix -III

Display Board

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

-----சரங்கம்

சரங்கங்களில் சுவாமி செயல்பாடுகளுக்கான சுற்றுத்தழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA-----, தேதி: 01.11.2017, சுற்றுத்தழல் அனுமதி \_\_\_\_\_ தேதி வரை செயல்தக்கதாக உள்ளது.

பகைம பகுதி வளர்ச்சி மேம்பாட்டுக்கான கடினத்திட்டம்	சுவாமிவின் எல்லையை சுற்றி வேலி அமைக்க வேண்டும்
நடப்பட்டு பராமரிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை:	காப்பகாலத்தில் ஆறாம் தளமட்டத்திலிருந்து மீட்டர்க்கு மிளமல் இருக்க வேண்டும். காற்றில் மாசு ஏற்படாதவாறு கடின பணிகளை மேற்கொள்ள வேண்டும். வாகனங்கள் செல்லும் பாதையில் மாசு ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் வாய்க்காலில் மூலமாக அளவளவித்து தெளிக்க வேண்டும். இடைக்கால அளவைகள் தூசி மாசுபாட்டையும் குறைப்பதற்காக சுவாமிவின் எல்லையை சுற்றி அடத்திரிபான பகைம பகுதியை ஏற்படுத்த வேண்டும்.
கடினத்தில் மொட அலகும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறும் மற்றும் கடுகன் பற்க்காதவளும் பாதுகாப்பு நடவடிக்கைகளை உள்ளிப்பாக செயல்படுத்தப்பட வேண்டும்.	
கடினத்தில் இருந்து ஏற்படும் இடைக்கால அளவு 83 செ.மீ.யில் (83A) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற் கொள்ள வேண்டும்.	
கடின சட்ட விதிகள் 1986ன் கீழ் கடினத்தில் உள்ள பணியைகளுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கைதாழ்முள்ள கழிப்பறை வசதிகளை செய்து தர வேண்டும்.	
மிளமல் அல்லது பஞ்சுபத்து வட்டிக வாகனங்கள் செல்லும் சாலைகளை தெரித்து தூசு பராமரிக்க வேண்டும்.	
கடினப்பணிகளை அடக்கி உள்ள விவசாய பணிகள் மற்றும் தீர்ந்தலைகள் பாதிக்கப்படக் கூடாது.	
தீர்ந்தலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் துவத்து நீர் தரத்தினை தெரித்து கண்காணிக்க வேண்டும்.	
கடினத்திலிருந்து கடின பொருட்களை எடுத்துச் செல்லு கிராம மக்களுக்கு எந்த சிமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுத்தழல் பாதிக்கவாத வகையில் வாகனங்களை இயக்க வேண்டும்.	
கடினப்பணிகள் முடிக்கப்பட்டவுடன் கடின மூடல் திட்டத்தில் உள்ளவாறு கடினத்தினை மூட வேண்டும்.	
கடின நடவடிக்கைகளை முடித்தபின்னர் கடினப் பகுதி மற்றும் கடின நடவடிக்கைகளை இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்து தரவுகள் விவங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகைமப்பகுதியை உருவாக்க வேண்டும்.	
முழுமையான நிபந்தனைகளை அறிய பாதிவேல் ( <a href="http://parivah.nic.in">http://parivah.nic.in</a> ) என்கிற இணையதளத்தைப் பார்க்கவும். மேலும் எந்தவித சுற்றுத்தழல் எந்த பணிகளுக்கு செல்லாமல் உள்ள சுற்றுத்தழல் மற்றும் வள அமைச்சரின் ஒருங்கிணைந்த வட்டார அலுவலகம்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாசு கட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுத்தழல் பொறியாளர் அலுவலகம்	

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SEAC -TN

  
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