

State Expert Appraisal Committee (SEAC)

Minutes of 430th meeting of the State Expert Appraisal Committee (SEAC) held on 14.12.2023 (Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building and Construction projects, Metallurgical Industries, Mining projects and Synthetic Organic Chemicals Industries projects.

Confirmation of Earlier Minutes

The minutes of the 429th SEAC meeting held on 13.12.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 430-01

(File No: 9555/2022)

Proposed Ordinary Earth quarry lease over an extent of 1.05.5 Ha at SF. No. 367(P) of Ervadi Village, Keelakarai Taluk, Ramanathapuram District, Tamil Nadu by Thiru. M. Nagarethinam - For Environmental Clearance. (SIA/TN/MIN/402659/2022, Dt: 12.10.2022).

Earlier, the proposal was placed in 362nd SEAC meeting held on 13.03.2023. The details of the minutes are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.M.Nagarethinam has applied for Environmental Clearance for the proposed Ordinary Earth quarry lease over an extent of 1.05.5Ha in SF. No. 367(P) of Ervadi village, Keelakarai Taluk, Ramanathapuram 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 1 year. The mining plan is for the period of one year & the production should not exceed 7616 m³ of ordinary earth with an ultimate depth of mining is 1.0m BGL.

The proposal was again placed in the 397th SEAC meeting held on 03.08.2023. The reply furnished by the PP was not satisfactory to the query raised in earlier 362nd SEAC


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meeting held on 13.03.2023. Hence SEAC decided to seek the following details from the project proponent.

1. The kml file was unviewable. The PP shall upload the correct viewable kml file in Parivesh website.
2. The PP carry out the geological assessment to identify mineralization, to establish continuity, quality and quantity of mineral mineral deposit, particularly, the presence of heavy minerals in the Teri sand (red earth) such as ilmenite, rutile, lucoxene, garnet, monazite, zircon and sillimanite, etc. Hence the PP shall furnish the report through the systematic sampling in the proposed site with showing geological coordinates and the mineralogical analysis obtained as per the procedures laid in accordance with the provisions of Atomic Minerals Concessional Rules, 2016 through the laboratory of IREL (India) Limited, Research Centre, Beach Road, Kollam, Kerala (or) through CSIR NML Madras Centre, CSIR Madras Complex (SERC Campus), Taramani, Chennai.
3. The PP shall change all the documents from "Earth" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022.
4. The proponent shall produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the Hon'ble Madurai Bench of Madras High Court.

Now the proposal was placed in 430th SEAC meeting held on 14.12.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

Sl.No	SEAC Query	Reply
1.	The kml file was not lucid. The PP shall upload the correct viewable kml file in Parivesh website	kml file has been uploaded again in Parivesh website.


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2.	The PP carry out the geological assessment to identify mineralization, to establish continuity, quality and quantity of mineral deposit, particularly, the presence of heavy minerals in the Teri sand (red earth) such as ilmenite, rutile, lucoxene, garnet, monazite, zircon and sillimanite, etc. Hence the PP shall furnish the report through the systematic sampling in the proposed site with showing geological coordinates and the mineralogical analysis obtained as per the procedures laid in accordance with the provisions of Atomic Minerals Concessional Rules, 2016 through the laboratory of IREL (India) Limited, Research Centre, Beach Road, Kollam, Kerala	The Ordinary Earth mineral composition has been tested by IREL (India) Limited, Kerala and test report enclosed.
3.	The PP shall change all the documents from "Earth" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022.	The Mining Plan has been Modified and got approved from the Dept. of Geology and Mining as name of the mineral is Ordinary Earth. Approval Letter Roc.No.306/G&M.2/2017, Dated:11.05.2023.
4.	The proponent shall produce a letter from the Department of Geology and Mining stating that the	The Letter obtained from Dept. of Geology and Mining


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location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the Hon'ble Madurai Bench of Madras High Court.	Roc.No.306/G&M.2/2017, Dated:28.04.2023.
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File No	9555/2022 SIA/TN/MIN/402659/2022, Dated:12.10.2022	Category	B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. M.Nagarethinam S/o Muniyandi, 6/345C, Muthuraj nagar, Chinna Mayakulam. Kilakarai Taluk, Ramanathapuram District
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Ordinary Earth quarry
3.	S.F Nos. of the quarry site with area break-up	:	367(P)
4.	Village in which situated	:	Ervadi
5.	Taluk in which situated	:	Keelakkarai
6.	District in which situated	:	Ramanathapuram
7.	Extent of quarry (in ha.)	:	1.05.5Ha
8.	Latitude & Longitude of all corners of the quarry site	:	9°12'10.91"N to 9°12'15.07"N 78°41'0.77"E to 78°41'3.90"E


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9.	Topo Sheet No.	: 58 K/12
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
		: Ordinary Earth
	Geological Resources m ³	: 10,550m ³
	Minable Resources m ³	: 7,616m ³
	Annual Peak Production in m ³	: 7,616m ³
	Maximum Depth in meters	: 1.0m BGL
13.	Depth of water table	: 10m BGL
14.	Man Power requirement per day:	: 12 Employees
15.	Water requirement:	: 3.0 KLD
	1. Drinking water & Utilized water	: 1.0 KLD
	2. Dust suppression	: 1.0 KLD
	3. Green belt	: 1.0 KLD
16.	Power requirement	: TNEB -
17.	Precise area communication approved by the Assistant Director, Department of G&M.	: Roc.No.306/G&M.2/2017, Dated:28.06.2022
18.	Mining Plan approved by Assistant Director, Department of G&M.	: Roc.No.306/G&M.2/2017, Dated:30.06.2022
19.	500m Cluster Letter approved by the Assistant Director, Department of G&M.	: Roc.No.306/G&M.2/2017, Dated:08.07.2022


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20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:29.06.2022
21.	Project Cost (excluding EMP cost)	:	Rs.11,30,000/-
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Ordinary Earth
		:	Max Total in m ³
		:	7,616m ³
		:	Annual Max in m ³
		:	7,616m ³
		:	Max Depth in mtrs
		:	1.0m BGL
23.	EMP cost (in Rs. Lakh).	:	Rs.8,33,000
24.	CER cost (in Rs. Lakh).	:	Rs.2,00,000/-

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for Annual Peak excavation quantity of not exceeding 7,616m³ of Earth with maintaining an ultimate pit depth of 1m BGL for a period one year from the date of lease execution 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 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 without deviation.
4. The PP shall not carry out drilling & blasting operations in the proposed quarry.


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5. The PP shall install a bio-toilet for the convenience of the workmen before obtaining the CTO from the TNPCB.
6. The PP shall carry out the backfilling of the mined out void area with the waste excavated from the quarrying operation simultaneously for developing suitable plantation as indicated in the EMP.
7. As accepted by the Project proponent the CER cost is Rs.2 Lakhs and the amount shall be spent for the Government School in Ervadi Village as committed, before obtaining CTO from TNPCB.

Agenda No: 430-02

(File No: 10160/2023)

Proposed Black Granite quarry lease over an extent of 4.14.8Ha at SF.No 104/1A(Part) of Udaiyanatham Village, Vikravandi Taluk, Villupuram District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited - For Environmental Clearance.

(SIA/TN/MIN/434072/2023, Dated:23.06.2023)

Earlier the proposal was placed in 402nd meeting of SEAC held on 17.08.2023. 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, M/s. Tamil Nadu Minerals Limited has applied for Environmental Clearance for the proposed Black Granite lease over an extent of 4.14.8Ha at SF.No. 104/1A(Part) of Udaiyanatham Village, Vikravandi Taluk, Villupuram 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. In Precise Area Communication Letter it was stated that, *"I, therefore, request you to furnish the Approved Mining Plan for the above-mentioned Precise Area through the Commissioner of Geology and Mining within a period of 3 months as per sub-rule (3) (b) of Rule 8-C of the Tamil Nadu Minor Mineral Concession Rules, 1959 and to produce Environmental Clearance obtained from the competent authority for the above said area for grant of quarry lease subject to*


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the following conditions”.

4. Lease expired on 02.11.2022.
5. Earlier the PP has obtained EC vide Lr.No.SEIAA-TN/F.No.3887/1(a)/EC.No.3888/2016 dated 14.11.2016.

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

1. Since the lease period has been expired, the PP shall furnish renewal of lease.
2. The PP shall revise the EMP as per SEAC template.
3. The PP shall submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai and the PP shall furnish appropriate mitigating measures for the non-compliance items, if any.
4. The PP shall furnish CER details.

Now the proposal was placed in 430th SEAC meeting held on 14.12.2023. The PP requested to defer the proposal. Hence the committee decided to defer the proposal.

Agenda No: 430 - 03

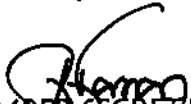
(File No: 10244/2023)

Proposed Rough stone Quarry over an extent of 4.00.0Ha at SF.No. 78/1A (P) & 78/1B (P) of Kothapetta Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. Sri Devaraajaa M Sand - For Terms of Reference. (SIA/TN/MIN/430407/2023, Dated:23.05.2023)

The proposal was placed in the 407th SEAC Meeting held on 07.09.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Sri Devaraajaa M Sand has applied for Terms of Reference for the Proposed Rough stone Quarry over an extent of 4.00.0Ha at SF.No. 78/1A (P) & 78/1B (P) of Kothapetta Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is for 5 years. The mining plan is for the


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period of five years & the production should not exceed 4,87,698m³ of rough stone & 799m³ of Gravel with an ultimate depth of mining is 41m (1m Gravel + 40m Rough stone). The annual peak production is 1,19,857m³ of rough stone (1st Year) & 799m³ of Gravel (1st Year).

4. Earlier, the PP has obtained Environmental Clearance from DEIAA vide Lr. No. 35/DEIAA-KGI/Ec.No.27/2018/Mines, Dt:27.02.2018.

Based on the details furnished by the Project Proponent, the SEAC directed the PP to submit the details of last date of mining carried out at the project site validated by the concerned AD (Mines), Department of Geology & Mining.

Now the proposal was placed in 430th SEAC meeting held on 14.12.2023. The PP requested additional time to produce the details. Hence SEAC decided to defer the proposal.

Agenda No: 430-04

(File No: 9303/2022)

Proposed Red Earth quarry lease over an extent of 1.82.5Ha at S.F.No.223/2 of Irulveli Village, Kadaladi Taluk, Ramanathapuram District, Tamil Nadu by Thiru.R.Ahamed Dhas - For Environmental Clearance. (SIA/TN/MIN/276432/2022, 03.06.2022)

The proposal was placed for appraisal in this 430th meeting of SEAC held on 14.12.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.R.Ahamed Dhas has applied seeking Environmental Clearance for the Red Earth quarry lease over an extent of 1.82.5Ha at S.F.No. 223/2 of Irulveli Village, Kadaladi Taluk, Ramanathapuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Precise area communication period is 1 year. The mining plan is for the period of 1 year & the production should not exceed 29340 Cu.m of Red Earth. The ultimate depth – 2m bgl.


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4. Earlier, the proposal was placed for appraisal in this 323rd meeting of SEAC held on 20.10.2022. Based on the presentation and the documents furnished by the Proponent, the SEAC directed the Proponent to furnish the following details:
- (i) Mineral composition of soil collected at the site in the presence of by the EIA Coordinator following the protocol for soil collection and the result to be certified by the concerned AD (Geology & Mining).

On receipt of the aforesaid details, the proposal will be considered for further deliberations.

Now, the proposal was again placed in the 430th meeting of SEAC held on 14.12.2023. During the meeting, the Committee noted that the project proponent was absent for the meeting. Hence the subject was not taken up for discussion. Further, SEAC decided that the proponent shall furnish the reason for absence.

Agenda No: 430-05

(File No: 9556/2022)

Proposed Ordinary Earth quarry lease over an extent of 2.37.0 Ha at S.F.No. No.386(P) in Ervadi Village, Keelakkarai Taluk, Ramanathapuram District, Tamil Nadu by Thiru. V. Jeypal – For Environmental Clearance. (SIA/TN/MIN/402463/2022, dated: 11.10.2022)

The proposal was placed for appraisal in this 430th meeting of SEAC held on 14.12.2023. 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. V. Jeypal has applied for Environmental Clearance for the Proposed Ordinary Earth quarry Lease over an extent of 2.37.0 Ha at S.F.No. No.386(p) in Ervadi Village, Keelakkarai Taluk, Ramanathapuram 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. The lease period is for One year & mining plan for the period of One year. The total production is not exceeding 18,921m³. The ultimate depth is 1.0m.


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4. Earlier, the proposal was placed for appraisal in this 362nd SEAC meeting held on 13.03.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain the following details from the PP.

- i) The kml file was unviewable. The PP shall upload the correct viewable kml file in Parivesh website.
- ii) The PP carry out the geological assessment to identify mineralization, to establish continuity, quality and quantity of mineral mineral deposit, particularly, the presence of heavy minerals in the Teri sand (red earth) such as ilmenite, rutile, lucoxene, garnet, monazite, zircon and sillimanite, etc. Hence the PP shall furnish the report through the systematic sampling in the proposed site with showing geological coordinates and the mineralogical analysis obtained as per the procedures laid in accordance with the provisions of Atomic Minerals Concessional Rules, 2016 through the laboratory of IREL (India) Limited, Research Centre, Beach Road, Kollam, Kerala.
- iii) The PP shall change all the documents from "Earth" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022.
- iv) The proponent shall produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the Hon'ble Madurai Bench of Madras High Court.

5. The proponent vide letter dated.23.11.2023, furnished a reply to the queries raised by SEAC.

6. In view of the above, the proposal was again placed in this 430th SEAC meeting held on 14.12.2023.

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

File No	9556 / 2022	Category	B2 / 1(a)
Sl. No	Salient Features of the Proposal		


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1	Name of the Owner/Firm	Thiru. V. Jeypal, S/o. Veluchamy, : George Joseph street, Kamarajapuram, Munichalai Post, Madurai District – 625 009.	
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Ordinary Earth	
3	S.F Nos. of the quarry site with area break-up	: 386(P)	
4	Village in which situated	: Ervadi	
5	Taluk in which situated	: Keelakkarai	
6	District in which situated	: Ramanathapuram	
7	Extent of quarry (in ha.)	: 2.37.0 Ha	
8	Latitude & Longitude of all corners of the quarry site	: 9°12'07.07"N to 9°12'11.81"N 78°41'23.05"E to 78°41'28.80"E	
9	Topo Sheet No.	: 58-K/12	
10	Type of mining	: Opencast 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	As modified by SEAC
	Geological Resources m ³ (RoM)	Ordinary Earth 23,700 m ³	Ordinary Earth -
	Minable Resources m ³ (RoM)	Ordinary Earth 18,921 m ³	Ordinary Earth -
	Annual Peak Production in m ³	Ordinary Earth -	Ordinary Earth -
	Ultimate Depth in meters	Ordinary Earth 1.0m bgl	Ordinary Earth -
	13	Depth of water table	: 7m-8m bgl

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14	Man Power requirement per day:	:	16 Nos.
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	3.0 KLD 1.0 KLD - 1.0 KLD 1.0 KLD
16	Power requirement	:	TNEB
17	Precise area communication approved by Assistant Director, Department of G&M	:	Na.Ka.En.1879/G&M.2/2017, dated:27.06.2022
18	Mining Plan approved by Assistant Director, Department of G&M	:	Roc.No.1879/G&M.2/2017, dated:30.06.2022
19	Department of G&M, Assistant Director 500m Cluster Letter	:	Roc.No.1879/G&M.2/2017, dated:08.07.2022
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 02.09.2022
21	Project Cost (excluding EMP cost)	:	Rs. 23,30,000/-
22	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Ordinary Earth
		:	Max Total RoM in m ³
		:	18,921 m ³
		:	Annual Max RoM in m ³
		:	-
		:	Max Depth in mtrs
		:	1.0m bgl


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23	EMP cost (in Rs. Lakh).	:	Rs. 10,58,000/-
24	CER cost (in Rs. Lakh).	:	Rs. 3,00,000/-

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 production quantity of 18,921 m³ of Ordinary Earth & the ultimate depth of mining upto 1.0m bgl for a period of one year only from the date of lease execution 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 PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 2) The PP shall install the tall wind sheets around the lease boundary directing the structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.
- 3) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 4) The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
- 5) The PP shall not carry out drilling & blasting operations in the proposed quarry.
- 6) The PP shall install a bio-toilet for the convenience of the workmen before obtaining the CTO from the TNPCB.
- 7) The PP shall carry out the backfilling of the mined out void area with the waste excavated from the quarrying operation simultaneously for developing suitable plantation as indicated in the EMP
- 8) As accepted by the Project Proponent the CER cost of **Rs. 3 Lakhs** and the amount shall be spent for the below activities as committed, before obtaining CTO from TNPCB.


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CER Activity	CER Cost
Developing Sanitary Facilities, planting trees in and around the school, Bench, tables & Books to School Library, Environmental awareness sign boards to Government school in Ervadi Village	Rs.3,00,000
Total Cost Allocation	Rs.3,00,000

Agenda No: 430-06

(File No: 9788/2020)

Proposed Rough Stone quarry lease area over an extent of 1.70.0Ha at S.F.Nos.529 (P), 530/1 & 530/2, Thorappalli Agraharam village, Hosur Taluk, Krishnagiri District, Tamil Nadu by M/s. XEC Blue Metals - For Environmental Clearance.

(SIA/TN/MIN/416197/2023, dated: 31.1.2023).

The proposal was placed in 430th meeting of SEAC held on 14.12.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s.XEC Blue Metals, has applied for Environmental Clearance for the proposed Rough stone quarry lease area over an extent of 1.70.0Ha at S.F.Nos. 529 (P), 530/1 & 530/2, Thorappalli Agraharam village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, the proposal was placed in 373rd SEAC meeting held on 28.04.2023. The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.
4. The Project proponent made a presentation along with reason for absent on previous meeting.

Based on the presentation made and documents submitted and from the KML file uploaded in the PARIVESH Portal, SEAC noted that mining activity was carried out in the adjacent Reserve Forest area. The SEAC has observed the following points:


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1. In pursuant of the amendment dated December 14, 2022 vide G.O.(Ms). No.243 to the Tamil Nadu Minor Mineral Concessional Rules, 1959 which states that

"...while granting quarry/mining licence in patta and government poromboke land, licences would continue to be granted with a condition that quarrying/mining should not be undertaken within a 60-metre radial distance from the boundaries of reserve forests..."

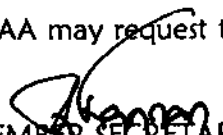
2. Besides, adherence to statutory provisions necessarily implies adherence to provisions of Environment (Protection) Act, 1986, laws pertaining to Air and Water Pollution and Forest Conservation Act, 1980 besides adherence to mining statutes.

3. It is also noted that the Supreme Court discussed the ambit of expression "illegal mining" and held in paras as follows:

".....Briefly therefore, the overall purpose and objective of the MMDR Act as well as the rules framed there under is to ensure that mining operations are carried out in a scientific manner with a high degree of responsibility including responsibility in protecting and preserving the environment and the flora of the area. Through this process, the holder of a mining lease is obliged to adhere to the standards laid down under the Environment (Protection) Act, 1986 or the EPA as well as the laws pertaining to air and water pollution and also by necessary implication, the provisions of the Forest (Conservation) Act, 1980 (for short 'the FC Act')....."

Hence the SEAC have clearly indicated to the PP that the exploitation of the natural resources within the safety zone of 60 m from the Reserve Forest is ruled out and If the holder of a mining lease does not adhere to the provisions of the statutes or the rules or the terms and conditions of the mining lease, that person is liable to incur penalties under Section 21 of the MMDR Act in addition thereto, Section 4A of the MMDR Act which provides for the termination of a mining lease is applicable.

Further, SEAC is of opinion that the interest of regulation of mines and mineral development, preservation of natural environment, prevention of pollution, etc. the SEIAA may request the Dept of Geology & Mining to prematurely terminate a mining


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lease as the quarrying was carried out without giving the aforesaid safety zone of 60 m from the R.F during earlier operation.

SEAC also noted that there are habitations within 300m on the western and northern side of the proposed site.

Hence, SEAC decided not to recommend the proposal for the grant of Environmental Clearance.

Agenda No: 430-07

(File No: 10035/2023)

Proposed Gravel quarry lease area over an extent of 2.03.50 Ha at S.F.Nos. 47/1, 48/1 & 48/2 of Kangaraseval Village, Vembakkottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. A. Kannuchamy - For Environmental Clearance. (SIA/TN/MIN/428965/2023, Dated: 11.05.2023)

The proposal was placed for appraisal in this 430th meeting of SEAC held on 14.12.2023. 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. A. Kannuchamy has applied for Environmental Clearance for the Proposed Gravel quarry lease area over an extent of 2.03.50 Ha at S.F.Nos. 47/1, 48/1 & 48/2 of Kangaraseval Village, Vembakkottai Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. Earlier, the proposal was placed for appraisal in this 391st meeting of SEAC held on 13.07.2023. During the meeting, the Committee noted that the project proponent was absent for the meeting. Hence the subject was not taken up for discussion. Further, SEAC decided that the proponent shall furnish the reason for absence.
4. The Project proponent made a presentation along with reason for absent on previous meeting.
5. The salient features of the proposal are as follows:


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File No	10035 / 2023	Category	B2 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru. A. Kannuchamy, S/o. Alagersamy, Door No: 5/3, Mangundampatti, Thayilpatti Village, Sivakasi Taluk, Virudhunagar District - 626 128.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Gravel
3	S.F Nos. of the quarry site with area break-up	:	47/1, 48/1 & 48/2
4	Village in which situated	:	Kangaraseval
5	Taluk in which situated	:	Vembakkottai
6	District in which situated	:	Virudhunagar
7	Extent of quarry (in ha.)	:	2.03.50 Ha
8	Latitude & Longitude of all corners of the quarry site	:	09°22'14.46"N to 09°22'19.12"N 77°45'46.44"E to 77°45'52.31"E
9	Topo Sheet No.	:	58-G/15
10	Type of mining	:	Opencast Semi Mechanized Mining
11	Life of Project	:	3 years
	Lease Period	:	3 years
	Mining Plan Period	:	3 years
12	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³ (RoM)	:	As modified by SEAC Gravel
		:	Gravel 1,01,750 m ³
Minable Resources m ³ (RoM)	:	Gravel	Gravel
	:	32,184 m ³	-


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	Annual Peak Production in m ³	:	Gravel	Gravel
			10,728 m ³	-
	Ultimate Depth in meters	:	2m below ground level	-
13	Depth of water table	:	16m-18m bgl	
14	Man Power requirement per day:	:	14 Nos.	
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.18 KLD 0.63 KLD - 0.25 KLD 0.30 KLD	
16	Power requirement	:	6432 Liters of HSD	
17	Precise area communication approved by Assistant Director, Department of G&M	:	Na.Ka.No: KV3/1095/2022-Kanimam, Dated:12.04.2023	
18	Mining Plan approved by Assistant Director, Department of G&M	:	Roc.No: KV3/1095/2022, Dated:17.04.2023	
19	Department of G&M, Assistant Director 500m Cluster Letter	:	Roc.No: KV3/1095/2022, Dated:17.04.2023	
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter furnished	
21	Project Cost (excluding EMP cost)	:	Rs. 17,28,540/-	
22	EC Recommendation	:	Validity	30 years subject to the following upper limits. Gravel


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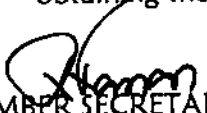
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		: Max Total RoM in m ³	32,184 m ³
		: Annual Max RoM in m ³	10,728 m ³
		: Max Depth in mtrs	2m below ground level
23	EMP cost (in Rs. Lakh).	: Capital Cost – Rs. 3,50,350/- : Recurring Cost – Rs. 1,84,420/-	
24	CER cost (in Rs. Lakh).	: Rs. 3,00,000/-	

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 10,728 m³ of Gravel by maintaining the ultimate depth of mining upto 2m below ground level for a period of three years only from the date of lease execution 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 PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 2) The PP shall install the tall wind sheets around the lease boundary directing the structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.
- 3) The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
- 4) The PP shall carry out the required number of plantations as committed in the EMP without deviation before obtaining the CTO from the TNPCB.
- 5) The PP shall not carry out drilling & blasting operations in the proposed quarry.
- 6) The PP shall install a bio-toilet for the convenience of the workmen before obtaining the CTO from the TNPCB.


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- 7) The PP shall carry out the backfilling of the mined out void area with the waste excavated from the quarrying operation simultaneously for developing suitable plantation as indicated in the EMP.
- 8) As accepted by the Project Proponent the CER cost of **Rs. 3 Lakhs** and the amount shall be spent for the activities as committed towards Panchayat Union Middle School, Kangaraseval Village, Vembakkottai Union, Virudhunagar District, before obtaining CTO from TNPCB.

Agenda No: 431 - 08.

(File No: 9466/2022)

Proposed Red Earth quarry lease over an extent of 3.40.0Ha SF.No.230/2C, 230/2D and 230/2E of Iruveli Village, Kadaladi Taluk, Ramanathapuram District by Thiru.K.Durai Singam_- For Environmental Clearance. (SIA/TN/MIN/282885/2022, dt: 08.08.2022)

Earlier, the proposal was placed in the 324th SEAC meeting held on 21.10.2022. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.Durai Singam has applied for Environmental Clearance for the Proposed Red Earth quarry lease over an extent of 3.40.0Ha SF.No.230/2C, 230/2D and 230/2E of Iruveli Village, Kadaladi Taluk, Ramanathapuram District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 1 year. The approved mining plan is for the period of 1 year & production should not exceed 56036 m³ of Red earth. The ultimate depth is 2m BGL.

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

1. Report on **mineral composition** analysis of the sample collected from the proposed quarry site indicating its coordinates & survey numbers, in the


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presence of concerned NABET Consultant / EIA Coordinator in accordance with the procedures as laid for sample collection by the Dept of Geology of Mining. Further the PP shall get the soil tested in any one of the following labs and ensure that the test report carries the certification issued by the concerned Asst. Director (Geology & Mining) on the results of soil composition analysis.

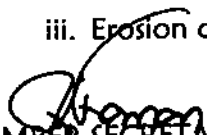
Sl. No	Name of the Laboratory
1.	Department of Geology, CEG Campus, Anna University, Guindy, Chennai-600025.
2.	Department of Applied Geology, University of Madras, Guindy, Chennai-600025.
3.	Department of Geology, Periyar University, Salem.

2. The proponent should produce a letter from the concerned Asst. Director (Geology and Mining) stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and does not fall under any notified/declared protected zones as directed in the aforesaid Judgment issued by the Hon'ble Madurai Bench of Madras High Court.
3. Revised CER proposal for Rs.75000/- as recommended by SEAC.

SEIAA Minutes:

Subsequently the proposal was placed in 569th authority meeting held on 10.11.2022 & 11.11.2022. The authority noted that this proposal was placed for appraisal in this 324th meeting of SEAC held on 21.10.2022 and the SEAC decided to obtain the certain additional details from the PP as stated therein. The authority after detailed discussions, decided to seek the following additional particulars as follows

- i. Details of type of vegetations including no. of trees & shrubs within the proposed mining area. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall be mentioned in EMP.
- ii. Impact on surrounding agricultural fields around the proposed mining Area.
- iii. Erosion control measures.


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iv. Impact on soil flora & vegetation around the project site.

The project proponent furnished reply on 18.11.2023. Again, this proposal was placed 430 SEAC meeting held on 14.12.2023. During the SEAC meeting it was noted that the PP has informed that the EIA coordinator is Absent for the meeting. Hence, the SEAC has decided not to take up this proposal for this SEAC appraisal meeting and decided to take up this proposal in the forthcoming SEAC meeting after obtaining reasons from EIA coordinator for not attending the meeting. Also, the PP shall furnish heavy mineral composition from IREL laboratory in compliance with Ministry of Mines notification Dt:20.02.2019 along with query raised by SEIAA in the 569th authority meeting held on 10.11.2022.

Agenda No: 430 - 09.

(File No: 9838/2023)

Proposed Rough Stone & Gravel Quarry lease over an extent of 2.15.0Ha S.F.No.538 (Part), Thennilai East Village, Pugalur Taluk, Karur District by M/s. Sri Balamali Murugan Blue Metals – for Environmental Clearance. (SIA/TN/MIN/414121/2023, dt: 18.02.2023)

Earlier, this proposal was placed in 375th SEAC meeting held on 04.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Sri Balamali Murugan Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 2.15.0Ha S.F.No.538 (Part), Thennilai East Village, Pugalur Taluk, Karur 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. The precise area communication is issued for the period of 5Years. The approved mining plan is for the period of five years & production should not exceed 213101m³ of Rough Stone & 16m³ of Gravel. The depth of mining is 60m BGL.


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9838/2023	Category	"B2"	
Online Proposal: SIA/TN/MIN/414121/2023. dt: 18.02.2023		EC	
Salient Features of the Proposal			
Name of the Owner/Firm	:	M/s.Sri Balamalai Murugan Blue Metals, Vadapalani Kovil, Thennilai East Village. Pugalur Taluk, Karur District - 639206	
Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel	
S.F Nos. of the quarry site with area break-up	:	538 (Part)	
Village in which situated	:	Thennilai East	
Taluk in which situated	:	Pugalur	
District in which situated	:	Karur	
Extent of quarry (in ha.)	:	2.15.0Ha	
Latitude & Longitude of all corners of the quarry site	:	10°59'18.65"N to 10°59'23.97"N 77°51'17.65"E to 77°51'22.87"E	
Topo Sheet No.	:	58- F/13	
Type of mining	:	Opencast Semi Mechanized of Mining	
Life of Project	:	5 Years	
Lease Period	:	5 Years	
Mining Plan Period	:	5 Years	
Mining Plan Details	:	As per approved Mining Plan	
Geological Resources m ³ (RoM)	:	Rough Stone	Gravel
		848131 m ³	240 m ³
Minable Resources m ³ (RoM)	:	Rough Stone	Gravel


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		194811 m ³	16 m ³
Annual Peak Production in m ³	:	Rough Stone	Gravel
		44661 m ³	16 m ³
Maximum Depth in meters		50m.	
Depth of water table	:	60m-65m BGL	
Man Power requirement per day:	:	14 Nos.	
Water requirement:		3.5 KLD	
1. Drinking water		0.5 KLD	
2. Utilized water	:	1.5 KLD	
3. Dust suppression		1.0 KLD	
4. Green belt		0.5 KLD	
Power requirement			
Precise area communication approved by the Department of G&M.	:	Rc.No.608/Kanimam/2020, dt: 28.11.2022	
Mining Plan approved by Department of G&M.	:	Rc.No.608/Mines/2020, dt: 12.12.2022	
Department of G&M, Deputy Director 500m Cluster Letter		Rc.No.608/Mines/2020, dt: 13.12.2022	
VAO Certificate Regarding Structures within 300m Radius		Letter dt: 30.01.2023	
Project Cost (excluding EMP cost)	:	Rs.56.50 Lakhs	
EMP cost (in Rs. Lakh).	:	Rs.139.77 Lakhs/ 5 Years	
CER cost (in Rs. Lakh).	:	Rs.5 Lakhs	

SEAC noted that the project proponent (Tvl. Sri Balamalai Murugan Blue Metals) has already obtained Terms of Reference with Public Hearing vide Lr. No. SEIAA-TN/F.No.8828/SEAC/ToR-1098/2021 Dated:21.03.2022 for the proposed Rough stone


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and Gravel for over an extent of 4.18.0 ha of Patta land in S.F.No.538 of Thennilai (East) Village, Pugalur Taluk, Karur District, Tamil Nadu.

Based on the presentation made by the project proponent, it was observed that the EIA Coordinator and the PP has not disclosed the history of the previous application seeking TOR vide F.No.8828 / Proposal No. - 68107/2021 that they have obtained Terms of Reference with Public Hearing for the proposed Rough stone and Gravel for over an extent of 4.18.0 ha of Patta land in S.F.No.538 of Thennilai (East) Village, Pugalur Taluk, Karur District. But now the PP has filed new application vide file No. 9838/ Proposal No. 414121/2023 with reduced extent of mining lease area of 2.15.0 Ha with revised mandatory documents with the intention to avoid public hearing.

In view of the above, SEAC has decided to call for explanation from PP and EIA Coordinator for not disclosing the history of the previous application (F.No.8828 – Proposal No. - 68107/2021).

Subsequently, the proposal was placed in the 622nd SEIAA meeting held on 26.05.2023. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 04.05.2023.

The project Proponent has furnished reply on 20.07.2023. The proposal was again placed in 397th SEAC meeting held on 03.08.2023. During SEAC meeting, Committee noted PP and EIA Coordinator has furnished explanation for not disclosing history of the previous application (F.No.8828 – Proposal No. - 68107/2021) of the earlier proposed Rough stone and Gravel for over an extent of 4.18.0 ha of Patta land in S.F.No.538 of Thennilai (East) Village, Pugalur Taluk, Karur District which was already issued with Terms of Reference with Public Hearing vide Lr. No. SEIAA-TN/F.No.8828/SEAC/ToR-1098/2021 Dated:21.03.2022. In this regard, SEAC after detailed discussion has decided to accept PP's request for withdraw in regard to the F.No.8828 – Proposal No. - 68107/2021, since the proponent has revised all the documents from Dept. of Geology & Mining to the new proposal seeking Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 2.15.0Ha S.F.No.538 (Part), Thennilai East Village, Pugalur Taluk, Karur


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District, Tamil Nadu.

Further, based on the presentation and on careful examination of reply furnished by the project proponent. The SEAC decided to call for following additional particulars

1. The project proponent shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures for the non-compliance stated therein.
2. The details of Existing pit dimension, quantity of the mineral quarried and last transport permit for the earlier lease period from Dept. Of Geology & Mining.
3. The Details of penalty levied from Dept. Of Geology & Mining, if any.
4. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
5. Since the quarry is existing with a depth of excavation of 22 m without benches of appropriate dimension (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall carry out a 'Slope Stability Assessment Studies' for the existing conditions of the quarry wall by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM - Bengaluru, IIT-Madras, NIT Surathkal – Dept of Mining Engg, and Anna University Chennai –Dept of Mining Engg. The above studies shall spell out 'a 'Slope Stability Action Plan' for the proposed quarry covering the existing condition of the quarry wall including the overall pit slope angle and it shall cover the aspects of stability of quarry walls including the access ramp keeping the benches intact.
6. The Revised EMP for the life of the mine including mine closure plan.

Subsequently, the subject was placed in the 648th Authority meeting held on 22.08.2023. The Authority decided that SEAC may examine whether there are any office memorandum/ notifications in connection to withdraw of ToR already granted, since the PP has not disclosed the history and submitted fresh application seeking EC under B2 category for a smaller area. The PP request for withdraw of ToR to avoid


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public hearing may be examined and authority feels no case to consider this request of PP.

The proposal was again placed in the 417th SEAC Meeting held on 18.10.2023 and during presentation the PP has requested the Committee for additional time to submit the additional details sought by SEAC and SEIAA.

Subsequently, the subject was placed in the 671st Authority meeting held on 07.11.2023 and the authority noted the 417th SEAC meeting held on 18.10.2023.

In view of the above, the project proponent has furnished reply on 21.11.2023. **Again, the proposal was placed in 430th SEAC meeting held on 14.12.2023.** Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies furnished by the PP as follows.

S.No.	Additional Particulars / Queries raised by SEAC vide 397 th SEAC meeting held on 03.08.2023.	PP reply vide SEAC presentation.
1)	The project proponent shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures for the non-compliance stated therein.	PP has obtained Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC vide Lr. EP.12.1/2023-24/SEIAA/83/ TN/1268 Dt:20.11.2023.
2)	The details of Existing pit dimension, quantity of the mineral quarried and last transport permit for the earlier lease period from Dept. Of Geology & Mining.	Deputy Director, Geology & Mining vide letter R.C No. 608/Mines/2020 Dated 31.08.2023
3)	The Details of penalty levied from Dept. of Geology & Mining, if any.	
4)	The structures within the radius of (i) 50 m. (ii) 100 m. (iii) 200 m and (iv) 300 m shall be enumerated with details such as	Structure upto 500m Radius and photographs enclosed in PPT.


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	dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.	
5)	Since the quarry is existing with a depth of excavation of 22 m without benches of appropriate dimension (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall carry out a 'Slope Stability Assessment Studies' for the existing conditions of the quarry wall by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM - Bengaluru, IIT-Madras, NIT Surathkal – Dept of Mining Engg. and Anna University Chennai – Dept of Mining Engg. The above studies shall spell out 'a 'Slope Stability Action Plan' for the proposed quarry covering the existing condition of the quarry wall including the overall pit slope angle and it shall cover the aspects of stability of quarry walls including the access ramp keeping the benches intact.	Slope Stability Analysis for not forming the benches obtained from Anna University, Chennai and the highwall safety measures cost including in EMP.
6)	The Revised EMP for the life of the mine including mine closure plan.	Revised EMP furnished.

SEAC after detailed discussion has to re-confirm the recommendation already made that SEAC decided to accept PP's request for withdraw in regard to the F.No.8828 – Proposal


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No. - 68107/2021, since the proponent has revised all the documents from Dept. of Geology & Mining to the new proposal seeking Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of **2.15.0Ha** S.F.No.538 (Part), Thennilai East Village, Pugalur Taluk, Karur District, Tamil Nadu.

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 shall not exceed ^{44,661} ~~19481~~ m³ of Rough Stone & 16 m³ of Gravel by restricting the ultimate depth of mining up to 50m 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) 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) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 5) Since the structures and highway/village roads are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of


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six months from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the 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.

- 6) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 7) The PP shall ensure that the transportation of minerals shall not be carried out through the village road passing near the school premises.
- 8) The PP shall appoint a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 before executing the lease and a copy of such appointment shall be sent to the DMS/Chennai Region atleast 30 days before the commencement of the mining operations without fail.
- 9) The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 10) Considering few structures are located within 300m from the lease boundary, the PP shall carry out the small scale blasting involving 30 to 40 holes in a round at a time with keeping the total aggregate explosive charge/round is limited to 2 kg only in accordance with the provisions of MMR 1961.


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- 11) As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 12) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at either side of the Village road (@distance of 500 m) by ensuring that no vehicles are allowed to pass through the road and all persons within such area have taken proper shelter during the blasting.
- 13) However, 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 walls within a period of six months from the commencement of mining operations **for evaluating the slope stabilization & protective measures while designing the proposed benches**, 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.
- 14) The PP shall submit the free silica test report for the persons employed in the mine from the laboratory approved by the DGMS, Dhanbad within a period of six months from the commencement of mining operation to the DEE/TNPCB, IRO/MoEF & CC, Chennai and DMS/Chennai Region without any deviation.
- 15) 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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16) As accepted by the Project Proponent the CER cost of Rs.5 lakhs and the amount shall be spent for the Panchayat Union Primary School, Raaklyakavundanputhur Village, before obtaining CTO from TNPCB.

Agenda No: 430 – 10

File No: 10248/2023

Proposed Rough Stone quarry over an extent of 4.00.0 Ha of Patta land in S.F.Nos. 78/1B(P), of Kothapetta Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Tmt. K.M.Vijaya - For Terms of Reference. (SIA/TN/MIN/430521/2023, 24.06.2023)

The proposal was earlier placed in the 407th meeting of SEAC held on 07.09.2023. The Project Proponent made a detailed presentation on the proposed project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tmt. K.M.Vijaya has applied seeking Terms of Reference for EIA study for the Proposed Rough Stone quarry over an extent of 4.00.0 Ha of Patta land in S.F.Nos. 78/1B(P), of Kothapetta Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006 as amended.
3. DEIAA EC vide DEIAA – KGI Lr No 34/DEIAA-KGI/Ec.No. 26/2018 Dated 27.02.2018

Based on the request of the Project Proponent, the SEAC directed the PP to submit the details of last date of mining carried out at the project site validated by Department of Geology & Mining. On receipt of the details sought the SEAC will deliberate further and decide on future course of action.

The subject was taken up for discussion in this 430th meeting of SEAC held on 14.12.2023. The EIA coordinator informed the Committee that the Environmental Clearance Dated:27.02.2018 issued for their proposal by DEIAA is valid upto 29.05.2024 (Including COVID Extension) and that the PP wish to avail the benefit of DEIAA-SEIAA Reappraisal OM Dated:28.04.2023 & 03.11.2023 and further requested


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that the PP may be permitted to submit the CCR of the existing quarry along with final EIA. Hence the SEAC decided to defer the proposal to later date.

Agenda No: 430 - 11

File No: 9652/2022

Proposed Rough stone & gravel over an extent of 3.21.5 Ha at S.F.Nos. 220/1A, 1C & 223/2F Ichipatti Village, Palladam Taluk, Tiruppur District, Tamil Nadu by Thiru. S.A. Ramachandran - For Terms of Reference. (SIA/TN/MIN/410467/2022, dated: 15.12.2022)


The proposal was placed in 430th SEAC meeting held on 14.12.2023. 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.A. Ramachandran has applied for Terms of Reference for the Proposed Rough stone & gravel over an extent of 3.21.5 Ha at S.F.Nos. 220/1A, 1C & 223/2F Ichipatti Village, Palladam Taluk, Tiruppur 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 mining plan, the lease period is 5 years and the proposed mining plan for Five years & the production should not exceed 2,57,985m³ of Rough Stone & 3,584 m³ of Gravel. The Annual peak production 53,850m³ of Rough Stone & 3,584 m³ of Gravel. The ultimate depth is 45 metres below ground level.
4. Earlier, the proposal was placed in 347th SEAC meeting held on 13.01.2023. Based on the presentation made by the proponent, SEAC decided to call for the following additional details.
 1. The proponent shall submit Certified Compliance Report.
 2. The proponent shall submit Slope Stability Action Plan for the existing quarry.
 3. The proponent shall complete the Fencing activities and carry out the Green Belt development activities around the boundary of the lease and shall submit Photo and video of the same.


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Now, the proposal was placed in the 430th SEAC meeting held on 14.12.2023. Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing as per the **annexure I** of this minute, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
2. Since the existing depth of quarry has already reached 30 m, for the safety of the persons employed in the quarry, the PP shall carry out the scientific studies and to furnish the report with assessing the slope stability of the working benches and existing quarry walls **for evaluating the slope stabilization & protective measures while designing the proposed benches**, 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.
3. The project proponent shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures along with the budgetary allocation for the non-compliance stated therein.

Agenda No: 430 - 12

(File No.10213/2023)


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Existing Multi Colour Granite Quarry lease over an Extent of 2.86.5 Ha (Patta Land) of S.F.Nos. 482 of Nadanthai Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu by Thiru. V. Punitha – For Terms of Reference. (SIA/TN/MIN/430138/2023 dated.21.05.2023)

The proposal was placed in the 430th meeting of SEAC held on 14.12.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

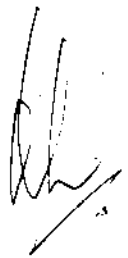
The SEAC noted the following:

1. The project proponent, **Thiru. V. Punitha** has applied for Terms of Reference for Existing Multi Colour Granite Quarry lease over an Extent of 2.86.5 Ha (Patta Land) of S.F.Nos. 482 of Nadanthai Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the project proponent by DEIAA vide Lr.No.DEIAA-NMK-TN/F.No.259/Mines/02/ EC No. 2/2017 dated. 24.11.2017 for a period of 5 years from the date of execution of mining lease. EC was accorded for the quantity of 30,025m³ of multi-colour granite up to a depth of 18m.
4. The proponent has submitted a Certified Compliance Report obtained from IRO of MoEF&CC vide E.P./12.1/2022-23/SEIAA/155/TN/1200 dated.15.11.2022 for the EC obtained earlier.
5. Now, based on MoEF&CC O.M dated.24.04.2023, the proponent has submitted the application at SEIAA-TN for re-appraisal of EC granted by DEIAA.
6. Earlier, the proposal was placed for appraisal in the 407th meeting of SEAC held on 07.09.2023

Based on the details furnished by the Project Proponent, the SEAC directed the PP to submit the details of last date of mining carried out at the project site validated by the concerned AD (Mines), Department of Geology & Mining. On receipt of the details sought the SEAC will deliberate further and decide on future course of action.


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7. The proponent vide letter dated.10.10.2023, furnished a reply to the details sought by SEAC in it's 407th meeting.

8. In view of the above, the proposal is again placed in this 430th SEAC meeting. Based on the presentation made by the proponent, **SEAC decided to recommend the proposal for Terms of Reference (TOR) with Public Hearing subject to the following additional TORs & ToRs in Annexure of this minutes**, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
2. The PP shall prepare a conceptual working plan accommodating the remedial actions such as inclusion of haul road accessibility keeping the benches intact, based on the studies carried out to assess the slope stability of the working benches to be constructed and existing quarry wall. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and slope stability action plan during the time of appraisal for obtaining the EC.
3. The PP shall undertake Hydrogeology study considering nearby existing wells, Aquifers, Ground water & surface water levels etc within the radius of 1km.

Agenda No: 430- 13

(File No.10225/2023)

Proposed Rough Stone and Gravel Quarry Lease over an extent of 1.50.0 Ha (Patta Land) at S.F.No. 6/1B(P) of Kundharappalli Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. N.S. Jyothi Raaja - For Environmental Clearance. (SIA/TN/MIN/434604/2023 dated:16.07.2023)


The proposal was placed in this 430th Meeting of SEAC held on 14.12.2023. The project details furnished by the proponent are available on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru. N.S. Jyothi Raaja** has applied for Environmental


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Clearance for the Proposed Rough Stone and Gravel Quarry Lease over an extent of 1.50.0 Ha (Patta Land) at S.F.Nos. 6/1B(P) of Kundharappalli 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.
3. Earlier, the proposal was placed in the 412th SEAC meeting held on 04.10.2023. From the KML file uploaded by the proponent in the PARIVESH Portal, it is ascertained that a school is located within 600m from the proposed project site. Further, some other structures are also located within 500m from the proposed project site.

In view of the above and also based on the presentation and documents submitted by the project proponent, SEAC decided to call for the following additional details from the project proponent to consider the proposal for appraisal:

- i) The proponent shall furnish the details on the schools (both Govt. & Private schools), industries, factories and other sensitive structures including temples located within 1 km from the quarry site, and detail the impact of mining activities & mitigation measures for protecting these structures.
- ii) Implication of proposed quarrying operations in terms of dust, ground vibrations and water pollution on the surrounding habitants located within a core zone of 1 km from the lease boundary and mitigating measures proposed by the PP.
- iii) Details of PWD Tank situated within a distance of 100 m.
- iv) No. of Govt/Pvt. Schools (or) any other Educational Institutions located within 500m from the proposed area & no. of students (including Residential) studying in it.
- v) The proponent shall furnish a detailed and thorough assessment on the direction of the wind at the project area since schools are located near the project site.


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vi) Transportation route for the proposed quarrying operation and anticipated traffic volume.

vii) A letter from the concerned AD (Mines) to indicate whether any penalty (or) compensation levied, if any, for illegal mining carried out by the PP in the past in same area (or) other areas, in strict compliance of judgement of Hon'ble Supreme Court dated. 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause Versus Union of India and Ors.

4. The proponent vide letter dated.21.11.2022 submitted a reply to the details sought by SEAC in it's 412th meeting.
5. In view of the above, the proposal is again placed in this 430th SEAC meeting.

The SEAC has noted the following:

1. A **Govt. Model Higher Secondary School** is situated within **500m radius** from the proposed project site which is a multi-story building with a student population of more than 240 Nos and also possesses an open play ground facility for the benefits of the students.
2. The DGMS Circular No:11/1977 & DGMS Tech. Circular No: 8/1982 states that *"...From the above it may appear that there is a case for revising the limit of danger zone from 300 metres to at least 500 metres and for prescribing that all those who must remain within the danger zone at the time of blasting should take shelter in 'substantially built' shelters.."*
3. The SEAC also observed that *"...Safety of the human lives, if any, comes within the danger zone by inadvertence is obviated with a proper signal by a suitable means which is whirled prior to the period of actual blasting as per the provisions of Regulation 164(1-A)(b) of the Metalliferous Mines Regulations, 1961 and responsibility of the same lies with not only the person conducting the blast as well as the owner of the mine...."*
4. The SEAC has understood from the deliberations that it is dangerous to carry out blasting operations in the stone quarry during the whole shift while other work is


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also being done in the area for under such circumstances it is difficult to ensure that all the children studying in the school situated within the danger zone (i.e. 500 metres from the place of firing shots) have taken adequate shelter or not. It is highly challenging task that all blasting operations (including carrying of explosives into the working area, preparation of priming cartridges, charging of shot holes, stemming of shot holes and firing) in the aforesaid stone quarry working. There is also the possibility of some inadvertent entry into the danger zone by the school children or even outsiders. Possibility of persons remaining unprotected in the danger zone (within 500 m) therefore cannot be ruled out in this case.

5. The quarry proposed is also located in a virgin /fresh land and the commencement of quarrying operation will deteriorate the environmental aspects & ecosystem of the area to the large extent including ground water deterioration.
6. The effect of particulate matter due to quarry operations being planned in an elevated terrain and located close to the school is expected to be higher ranger (crossing the permissible limits imposed by the Competent authority) particularly during high wind periods.
7. Further, the transportation route as proposed by the PP is having the lead distance of more than 1 km to the crusher plant which necessarily shall pass through the village/hutments resulting in environmental impacts including dust and noise pollution apart from traffic safety.
8. Location of PWD tank at a distance of 100 m from the proposed quarry site is highly vulnerable for the quarrying operation.

Based on the presentation and details furnished by the project proponent, the Committee, after detailed deliberations, **decided not to recommend** the proposal for grant of Environmental Clearance.

Agenda No: 430 - 14

(File No.10257/2023)

Proposed Gravel Quarry Lease over an extent of 0.64.78 Ha (Patta Land) at S.F.Nos. 458/3D of Bolanahalli Village, Nallampalli Taluk, Dharmapuri District, Tamil Nadu by


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Thiru. S. Gandhi - For Environmental Clearance. (SIA/TN/MIN/437684/2023 dated:26.07.2023)

The proposal was placed in this 430th Meeting of SEAC held on 14.12.2023. The project details furnished by the proponent are available on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru. S. Gandhi** has applied for Environmental Clearance for the Proposed Gravel Quarry Lease over an extent of 0.64.78 Ha (Patta Land) at S.F.Nos. 458/3D of Bolanahalli Village, Nallampalli Taluk, Dharmapuri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, the proposal was placed in the 412th Meeting of SEAC held on 04.10.2023.

On perusal of the documents submitted by the project proponent, it is ascertained that the project proponent has submitted two soil test reports regarding the soil characteristics of the proposed site. The details of the report are as follows:

Details	Soil Test Report 1		Soil Test Report 2	
Obtained from	Govt. College of Engineering, Salem		Govt. College of Engineering, Salem	
Letter details	Lr.No.:C-1757/GCE/SLM/ Civil/ Soil Lab/ 2023 dated. 18.07.2023.		Lr.No.:C-1791/GCE/SLM/ Civil/ Soil Lab/ 2023 dated. 26.09.2023.	
Result of sieve analysis	Gravel	8%	Gravel	63.8%
	Coarse Sand	12%	Coarse Sand	3.3%
	Medium sand	42%	Medium sand	6.0%
	Fine sand	15.6%	Fine sand	1.5%
	Silt/ Clay	22.4%	Silt/ Clay	25.5%


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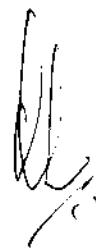

Soil Classification	SM – Silty Sand	GM – Silty Gravel
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From the above, SEAC noted that the two soil test reports were highly inconsistent with each other. Hence, the SEAC after detailed deliberations, decided to call for the following additional details from the project proponent to consider the proposal for appraisal:

- i) The proponent shall furnish a fresh soil test report from the Soli Mechanics Laboratory of NIT, Trichy. The soil sample for testing should be collected by the EIA coordinator in person as per the detailed protocol prescribed by SEAC, with videographic evidence.
 - ii) The PP shall furnish the video/photographs with legitimate coordinates indicating the sample pit/trench for a depth of 2 m BGL and 3 m AGL showing the lithological characteristics of the earth.
4. The proponent vide letter dated.21.11.2023, furnished a reply to the details sought in the 412th SEAC meeting.
 5. The proponent submitted a fresh soil test report obtained from NIT, Trichy vide Report No.KMK-SL-2023-42 dated.08.11.2023. According to the report, the maximum sand content in the soil sample is **26%**.
 6. Further, Assistant Director, Dept. of G&M, Dharmapuri District vide Roc.No.50/2023 (Mines) dated.11.07.2023 has stated as follows:
"...it is informed that there is no rivers, streams, canals, ponds, etc., situated within 50mts to the applied area..."
 7. The other salient features of the proposal are as follows:

File No	10257/2023	Category	B2
	437684/2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. S. Gandhi, S/o. Sellappagounder,


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		No.107/1, Selvam Nagar, 2 nd Street, Kumalan Kuttai, Erode District – 638 011.		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Gravel Quarry	
3.	S.F Nos. of the quarry site	:	458/3D	
4.	Village in which situated	:	Bolanahalli	
5.	Taluk in which situated	:	Nallampalli	
6.	District in which situated	:	Dharmapuri	
7.	Extent of quarry (in ha.)	:	0.64.78 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°0'2.68"N to 12°0'6.13"N 78°2'39.14"E to 78°2'42.42"E	
9.	Topo Sheet No.	:	57-L/04	
10.	Type of mining	:	Opencast- Semi Mechanized Mining	
11.	Lease Period	:	1 year	
	Project Life	:	1 year	
	Mining Plan Period	:	1 year	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Gravel - 22418m ³	-
	Minable Resources m ³ (RoM)	:	Gravel – 15,641m ³	Gravel - 9802m ³
	Annual Peak Production in m ³	:	Gravel – 15,641m ³	Gravel - 9802m ³
	Maximum Depth in meters	:	5m (3m AGL + 2m BGL)	-
13.	Depth of water table	:	30- 35m	
14.	Man Power requirement per day:	:	7 Nos.	
15.	Water requirement:	:	1.1 KLD	
	5. Drinking & Domestic	:	0.1 KLD	


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	6. Dust suppression 7. Green belt	0.5KLD 0.5 KLD	
16.	Power requirement	: 4176 Liters of Diesel will be utilized	
17.	Precise area communication approved by the Assistant Director, Dept. of G&M	: Roc.No.50/2023(Mines), Dated:06.07.2023.	
18.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining.	: Roc.No.50/2023(Mines), Dated:11.07.2023.	
19.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	: Roc.No.50/2023(Mines), Dated:11.07.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated: 17.07.2023.	
21.	Project Cost (excluding EMP cost)	: Rs.13,90,000/-	
22.	EC Recommendation	: Validity	1 year subject to the following upper limits.
		: Max Total RoM in m ³	Gravel - 9802m ³
		: Annual Max RoM in m ³	Gravel - 9802m ³
		: Max Depth in mtrs	5m (3m AGL + 2m BGL)
23.	EMP cost (in Rs. Lakhs).	: Capital Cost – Rs. 2.16 Lakhs/-	
24.	CER cost (in Rs. Lakhs).	: Rs. 2,00,000 /-	


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Based on the presentation and details furnished by the project proponent, **SEAC** decided to recommend the proposal for grant of Environmental Clearance for the revised production quantity production of 9802m³ of gravel for the period of 1 year with an ultimate depth of 5m (3m above ground level + 2m below Ground Level) for a period of three years only from the date of lease execution, subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
2. The PP shall install a temporary Rest Shelter and Bio-toilet for the persons employed in the mine before obtaining the CTO from the TNPCB.
3. The PP shall deploy a dedicated water sprinkler for controlling the dust along the public road.
4. Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before obtaining the CTO from the TNPCB.
5. As accepted by the Project proponent, the CER cost is **Rs.2 Lakhs** and the amount shall be spent for the committed activities towards Govt Higher Secondary School – Maniyathahalli Village before obtaining CTO from TNPCB.

Agenda No: 430- 15

(File No. 10299/2023)

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

The proposal was placed for appraisal in the 430th Meeting of SEAC held on 14.12.2023. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:


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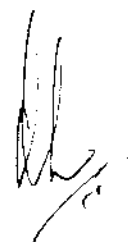

1. The project proponent, **Thiru. N.H.M. Pandian** has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry at over an Extent of 3.01.00 Ha of S.F.Nos. 302/1 304/1A & 304/2A of Anaikulam Village, Veerakeralampudur Taluk, Tenkasi District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, the proposal was placed in the 409th SEAC meeting held on 21.09.2023 during which the proponent was absent.
4. In view of the above, the proposal is again placed in this 430th SEAC meeting.
5. As per the mining plan, the lease period is for 5 years. The production for 5 years is 3,03,165m³ of rough stone & 65,397m³ of gravel upto the depth of 49 m below ground level.

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

1. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
2. The PP shall prepare a conceptual working plan accommodating the remedial actions based on the scientific studies carried out to assess the slope stability of the working benches to be constructed and existing quarry wall including the common wall/pillar exists adjacent to a quarry, 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


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report indicating the stability status of the quarry wall and slope stability action plan during the time of appraisal for obtaining the EC.

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

Agenda No: 430- 16

(File No. 9470/2023)

Proposed Rough Stone Quarry lease over an extent of 1.40.0 Ha at S.F.No. 54 (Part-3) in Soolamalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Tmt.V.Ellammal – ToR Withdrawal Request regarding. (SIA/TN/MIN/83086/2021 dated 01.09.2022)

The request was placed for consideration in the 430th Meeting of SEAC held on 14.12.2023.

The SEAC noted the following:

- i) The proponent, Tmt.V.Ellammal submitted an application seeking Terms of Reference vide PARIVESH Proposal No. SIA/TN/MIN/83086/2022 dated.01.09.2022 for the proposed rough stone quarry lease in Government Poromboke Land over an extent of 1.40.00 Ha at S.F.No.54 (Part-3) in Soolamalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.
- ii) Subsequently, **ToR with Public Hearing** was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9470/SEAC/ToR-1293/2022 dated.28.10.2022.
- iii) Now, the proponent has submitted a request to withdraw and surrender the ToR dated.28.10.2022 stating that her quarry falls under 'B2' category as per the revised 500m cluster letter obtained from DD of Geology & Mining Department.
- iv) The above request of the proponent is placed in this 668th authority meeting.

The authority, after deliberations, decided to forward the proponent's request to SEAC for remarks.

In view of the above, the request is placed in this 430th SEAC meeting.

Based on the presentation & details furnished by the project proponent, the Committee after detailed deliberations, decided not to accept the request of the proponent to withdraw the ToR issued dated.28.10.2022. The proponent should submit the EIA


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Report along with the Public Hearing minutes as indicated in the ToR dated.28.10.2022 if he wishes to continue with quarrying operations.

Further, the Committee noted that meanwhile the proponent has also submitted a fresh application under 'B2' category vide Proposal No. SIA/TN/MIN/428553/2023 (Offline No.10232). Since, the proposal falls under 'B1' Category, the file submitted under 'B2' category shall be closed and recorded as it cannot be processed.

Agenda No: 430-17

(File No: 9922/2023)

Proposed Expansion of Hospital Buildings at S.F.Nos. 445/1, 2A1B, 2A2, 2B, 446/3A,4,5,9A, 23A, 453/4 & 454/10B2 of Kulasekharam 'B' Village, Thiruvattar Taluk, Kanyakumari District, Tamil Nadu by M/s. Sree Mookambika Institute of Medical Sciences - For Environmental Clearance.

(SIA/TN/INFRA2/420188/2023, dated: 08.03.2023)

Earlier the proposal was placed in 385th Meeting of SEAC held on 22.06.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Sree Mookambika Institute of Medical Sciences has applied for Environmental Clearance for the Proposed Expansion of Hospital Buildings at S.F.Nos. 445/1, 2A1B, 2A2, 2B, 446/3A,4,5,9A, 23A, 453/4 & 454/10B2 of Kulasekharam 'B' Village, Thiruvattar Taluk, Kanyakumari District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation made by the EIA co-ordinator, the SEAC noted that, the EIA co-ordinator states that old hospital buildings are constructed before 2006. It was also noted that in 2003 the hospital obtained consent for 50 beds and in 2014 the hospital obtained consent for 550 nos of beds. Hence the PP shall submit year wise built-up area statement (with proper proof) from date of start of construction to till date. The EIA co-ordinator shall justify whether the project comes under violation or not.


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The PP shall also furnish

- (i) Block wise comparison table for expansion activity.
- (ii) The PP shall not extract ground water and shall furnish fresh water supply source.
- (iii) STP adequacy report for expansion activity.
- (iv) Demolition certificate for disposal of Part of the Main Building (Block - 3).
- (v) ROA of pond water which is stored in rain water harvesting pit.
- (vi) The PP shall furnish details of trees to be cut down and action plan for replacement of the same.
- (vii) The PP shall revise CER.
- (viii) The PP shall furnish structural stability certificate.
- (ix) The PP shall furnish fire NOC.
- (x) The PP shall furnish vehicle parking facilities.
- (xi) The PP shall verify workers health records and submit details of any anomalous occurrence of medical/health issues among permanent workers.

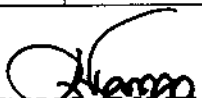
Now the proposal was placed in 430th SEAC meeting held on 14.12.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

S.No	SEAC Query	Reply
1.	Block wise comparison table for expansion activity.	Block wise comparison table for expansion activity was submitted.
2.	The PP shall not extract ground water and shall furnish fresh water supply source.	We have obtained permission from District Collector to extract about 384 KLD of water from Open wells of our own lands vide Letter No. Va2/6710/2017 dated 03.04.2017 in concurrence with PWD - WRO, GoTN as there is no surface water supply schemes in this region.


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3.	STP adequacy report for expansion activity.	STP adequacy report was submitted.		
4.	Demolition certificate for disposal of Part of the Main Building	Demolition certificate dated 05.09.2023 was submitted.		
5.	ROA of pond water which is stored in rain water harvesting pit.	ROA of pond water was submitted.		
6.	The PP shall furnish details of trees to be cut down and action plan for replacement of the same.	No trees will be cut down for the proposed expansion. The proposed expansion will be carried out only in the vacant area.		
7.	The PP shall revise CER.	S. No.	Description of Work	Cost (Rs.)
		1.	New Building Construction of 1075 Sq. ft. for additional facilities including Painting of Building, Construction of Toilet Facilities, Water Tank and distribution arrangement in Primary Health Centre, Kuttakuzhi.	25,00,000 /-
		2.	Infrastructure facilities development including buildings, equipment & other requirements in Sub-	25,00,000 /-


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		centre's of nearby PHCs																
8.	The PP shall furnish structural stability certificate.	Structural stability certificate was submitted.																
9.	The PP shall furnish fire NOC.	Fire NOC was submitted.																
10.	The PP shall furnish vehicle parking facilities.	The vehicular parking details along with the number of parking & Area Details is given below:																
		<table border="1"> <thead> <tr> <th>Details</th> <th>No. of Car Parking</th> <th>No. of Two-Wheeler Parking</th> </tr> </thead> <tbody> <tr> <td colspan="3">Parking required as DTCP norms</td> </tr> <tr> <td>Parking Required</td> <td>560</td> <td>560</td> </tr> <tr> <td>Parking Proposed</td> <td>591</td> <td>605</td> </tr> <tr> <td>No. of Parking proposed for physically challenged</td> <td>20</td> <td>30</td> </tr> </tbody> </table>	Details	No. of Car Parking	No. of Two-Wheeler Parking	Parking required as DTCP norms			Parking Required	560	560	Parking Proposed	591	605	No. of Parking proposed for physically challenged	20	30	
Details	No. of Car Parking	No. of Two-Wheeler Parking																
Parking required as DTCP norms																		
Parking Required	560	560																
Parking Proposed	591	605																
No. of Parking proposed for physically challenged	20	30																
11.	The PP shall verify workers health records and submit details of any anomalous occurrence of medical/health issues among permanent workers.	There are no health issues to permanent workers. The details of workers health records are given.																

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


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1. The Environmental Clearance is sought for the Proposed Expansion of Hospital Buildings at S.F.Nos. 445/1, 2A1B, 2A2, 2B, 446/3A,4,5,9A, 23A, 453/4 & 454/10B2 of Kulasekharam 'B' Village, Thiruvattar Taluk, Kanyakumari District, Tamil Nadu by the M/s. Sree Mookambika Institute of Medical Sciences.
2. M/s. Eco Tech Labs Pvt Ltd is the EIA Consultant for the project.
3. Total plot area of the project is 19,562m² and built-up area is 41,997.9m² respectively.
4. Maximum number of floors will be **2 No of Cellar Floor (Baseline) + Ground + 5 Floors** and maximum height of the building will be 20 m.
5. Total No of Beds will be increased from 550 Nos to 850 Nos.
6. Total Saleable DU's (dwelling units) is Nil.
7. Salient features of the project as submitted by the project proponent:

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	19,562	SQMT
2	Proposed Built Up Area	4737.74	SQMT
3	Total no of Beds	850	No.
4	Max Height - (Height of tallest block)	20	M
5	No of Building Blocks	5	Nos
6	Max No of Floors	5 Floors	No.
7	Expected Population		
	In-patients	850	No.
	Out patients	1500	No.
	Employees	800	No.
	Visitors	1900	No.
8	Total Cost of Project	50.1344	CR


9	Project Activity:	Proposed Expansion of Hospital Buildings	
AREAS			
10	Permissible Ground Coverage Area (50%)	9781	SQMT
11	Proposed Ground Coverage Area (38.2%)	7480.11	SQMT
12	Permissible FSI Area (1.5) of total site	155272.5*	SQMT
13	Proposed FSI Area (1.29) of total site	133586.08*	SQMT
14	Other Non FSI Areas - including basement area etc. of total site	1006.96*	SQMT
15	Proposed Total Built Up Area		
	Total site including colleges	134593.06	SQMT
	Hospital Component	41997.9	SQMT
* As an educational institution with hospital, EC applied for component of Hospital alone.			
WATER			
16	Total Water Requirement	520	KLD
17	Fresh water requirement	346	KLD
18	Treated Water Requirement	174	KLD
19	Wastewater Generation		
	Sewage	398	KLD
	Effluent	85	KLD
20	Proposed Capacity of		KLD
	STP	350 & 150	
	ETP	100 KLD	
21	Treated Water Available for Reuse	483	KLD
22	Treated Water Recycled	483	KLD


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23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	0	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pond	2	No.
25	Rainwater Harvesting Pond Capacity	34000	M ³
PARKING			
25	Total Parking Required as / Building Bye Laws	Car - 294 / 2-Wheeler - 294	ECS
26	Proposed Total Parking	Car - 320/ 2-Wheeler - 300	ECS
27	Parking in Basements	Nil	ECS
GREEN AREA			
28	Proposed Green Area (Minimum 15.0% of plot area)	4988.31	SQMT
	Total area	19562	
	Existing trees on plot	500	
	Number of trees to be planted	100	
	Number of trees to be transplanted/cut	0	
SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	0.83	TPD
30	Organic waste	0.5	TPD
31	Mode of Treatment & Disposal	Biodegradable – Bio Gas Plant	TPD


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		Non-Biodegradable – Recyclers Bio Medical waste – Authorized CBMWTF STP Sludge – Manure in Gardening	
32	Quantity of Sludge Generated from STP & Disposal	25	KG/DAY
33	Quantity of E-Waste Generation & Disposal	100	KG/ANNUM
34	Quantity of Hazardous waste Generation & Disposal	Spent Oil – 0.5 Authorized Recyclers	TPA
	Quantity of Bio Medical Waste	692.5	Kg/day
	Disposal of BMW - TNPCB Authorized Common Bio-Medical Waste Treatment Facility (CBMWTF), M/s. Aseptic Systems Bio Medical Waste Management Company		
POWER / GREEN POWER			
34	Total Power Requirement	1400	KVA
35	DG set backup	1500 KVA x 1 1010 KVA x 2	KVA
36	No of DG Sets	3	No.
37	Solar Panels – Roof Coverage	21.4	%


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38	Hot Water Requirement	25	KLD
	Of which met by Solar Panels	20	KLD

Population details:

POPULATION			
Hospital	DU'S	POP/DU	TOTAL POPULATION
In-patient	-	850	850
Out-patients	-	1500	1500
Non-Residential			
CLUB house (Employees etc.)	Area	Nil	
Club		Nil	
Commercial		Nil	
Facility Management Staff		800	
Total		800	
Visitors		1900	
Residential		Nil	
Club/Community Hall		Nil	
Commercial		Nil	
Total Visitors		Nil	
Total Population		5050	
EMP Cost		Capital Cost – Rs.300 Lakhs. Recurring Cost – Rs.92.6 Lakhs/Annum.	
CER Cost		Rs.50 Lakhs	


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Details of CER Activities

S. No.	Description	Budgetary Allocation (in Lakhs)	Action Plan
	(i) New Building Construction of 1075 Sq. ft. for additional facilities including Painting of Building, Construction of Toilet Facilities, Water Tank and distribution arrangement in Primary Health Centre, Kuttakuzhi.	25	Should be completed within one year from the date of issue of EC.
	(ii) Infrastructure facilities development including buildings, equipment & other requirements in Sub centre's of nearby PHCs	25	
Total		50 Lakhs	

8. The project proposal falls under Category-8(a) of EIA Notification, 2006 (as amended).

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 Gold rating.
2. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.


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


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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.
13. The Project Proponent shall comply with the provisions given under the Bio Medical Waste Management Rules, 2016, as amended at all times.

Agenda No: 430-18

(File No: 10328/2023)

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

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

The SEAC noted the following:

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

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

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

1. The PP shall furnish original DPR.
2. The PP shall submit water balance data.
3. The PP shall furnish boiler capacity and its fuel consumption.
4. The PP shall furnish the details of complete process description, flow data etc.,


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5. The PP should have obtained EC for the existing products (hydrolysed Vegetable Protein liquid/Powder & Mixed Amino acid liquid ingredients, Bio fertilizer & Pharma formulations), and the PP shall justify reason for not obtaining EC for the same.

Now the proposal was placed in 430th SEAC meeting held on 14.12.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

S.No	SEAC Query	Reply
1.	The PP shall furnish original DPR.	Detailed Project Report (DPR) for the project enclosed.
2.	The PP shall Submit Water Balance Data	Details of the water balance working for the project enclosed.
3.	The PP shall furnish boiler capacity and its fuel consumption.	Details of the boiler capacity and its fuel consumption for the project enclosed.
4.	The PP shall furnish the details of complete process description, flow data etc.,	Details of Manufacturing Process, Stoichiometric Equations, Process flow & Mass Balance enclosed.
5.	The PP should have obtained EC for the existing products (hydrolyzed Vegetable Protein liquid/Powder & Mixed Amino acid liquid ingredients, Bio fertilizer & Pharma formulations), and the PP shall justify reason for not obtaining EC for the same.	<ul style="list-style-type: none"> • The existing products are classified under Clause 12.9.2.2 non-fermented soyabean sauces as per the General standard for Food additives Revision: 2021. • Reference CODEX ALIMENTARIUS – International Food Standards. (FAO & WHO). • In similar case that clarifications had been sought with the SEAC – Maharashtra for similar products in the

		<p>year 2018 by M/s. Warkem Bio-Tech Pvt. Ltd. and the same had been clarified during the 232nd meeting Dt. 24 & 25th November, 2022 by SEAC that Protein Hydro Lysate Powder do not fall in the category 5(f) of the schedule of the EIA notification 2006.</p>
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Based on the presentation made by the proponent, **SEAC recommended grant of Terms of Reference (TOR) with Public hearing** for preparation of EIA/EMP Report subject to the following TORs, in addition to the standard terms of reference for EIA study issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall furnish original DPR.
2. The PP shall furnish the details of its branch unit at M/s. Innovative Health Care India Pvt Ltd, Madhuranthagam and shall discuss about the public complaint raised in this unit.
3. The PP shall furnish a letter from DFO concern from the proposed project site to the nearest ESA like Reserve Forest/National park/sanctuary etc.
4. The PP shall furnish the impact of chemicals on Reserve Forest as a special chapter in the EIA report.
5. The PP shall enumerate all structures.
6. The PP shall submit life cycle assessment.
7. The PP shall explore the possibility of adopting best technology in the world.
8. A comparison of details shall be furnished in terms of process, technology, raw material, use, waste generated, and how it's disposed of.
9. The MSDS of all chemicals to be used in the industry should be furnished with the significance of the chemicals in terms of risk to public health.
10. The usage of the chemicals and the process involved in the final product to be discussed in detail in the EIA report with appropriate material balance at every stage.


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11. The details of the strengthening of the ETP and Air Pollution control measures should be detailed.
12. The Project proponent shall adopt eco-friendly process to ensure reduction in disposable salt generated and in case if disposal salts are generated, shall explore the possibility of recovery & reuse.
13. The proponent shall form an Environmental Cell and furnish the detail along with EIA.
14. The proponent shall furnish the layout plan for the greenbelt area earmarked with GPS coordinates with maximum area on the periphery of the unit and the green belt area should not be less than 33% of the total land area of the project.
15. The proponent shall submit, in a matrix form, details of raw materials used per day/batch and per month and their conversion into final product, by product and waste generated.
16. The process flow diagram should include a quantity of various items, the effluents air emissions / hazardous waste generated including the quantity and their characteristics, appropriate pollution control measures contemplated for controlling each category of pollution, and the pollutants getting discharged into the environment including the quantity as well as the characteristics.
17. The EIA should cover the possible impacts starting from unloading of chemicals, storage, process and finally letting into the environment.
18. The EIA should concentrate on specific pollutants emanated from the industry in addition to the normal pollutants which are dealt with in EIA study. The project proponent should focus concentrate on the Volatile Organic Compounds (VOC) being one of the primary pollutants from the industry.
19. The occupational safety and health should be detailed to include the threat from the VOC exposure. In the same way, the exposure likely to be in nearby Village also to be studied.
20. The odour from the fugitive emissions will be a major problem. The project proponent should formulate measures to monitor and control the odour appropriately.


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21. Details on how the reactors are cleaned and how the residues are collected and disposed shall be elaborated.
22. Any washing of reactor with water is done such waste water shall be considered as effluent and the same shall be sent to proposed ETP. Accordingly, the project proponent shall design the ETP.
23. Hazardous waste generated shall be clearly identified and shall be disposed to TNPCB authorized recyclers. The project proponent shall furnish the proposal for Hazardous waste management.
24. EIA shall contain material balance indicating any by products, solid waste, etc
25. Fugitive emissions generated from the other activities shall be collected through adequate ducting system and provided with wet scrubbers.
26. Details of the procedures adopted for the regular health check-ups for the staff shall be furnished.
27. Details of extra safety standards against anticipated exhaust and exposures by the project proponent to be furnished and its impact on workers including disorders and disabilities to be listed. Will exposures have any impact on workers. Can it cause disorders and disabilities?
28. Proper disaster management plan considering the worst-case scenario shall be furnished.
29. The physical and chemical characteristics of all the chemicals shall be listed in the EIA report.
30. Details of the by-products disposal methodology shall be elaborated.
31. The project proponent shall obtain permission from the PESO and industrial safety department for the storage of solvent within the unit premises.
32. Details on the Risk assessment, Disaster management plan and occupational health safety survey shall be furnished with mitigation measures.
33. Risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the counter of sensitive zones should be prepared.


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34.To prepare a code of practice for safe operation for educating the safety standards to the workforce deployed in the plant through appropriate training by the concerned experts.

Agenda No: 430-19

(File No: 9944/2023)

Proposed construction of IT/ITES office building at Old S.No.12-part, New T S.No.164, Plot No. 11, Thiru-Vi-Ka Industrial Estate, Alandur Village, Guindy Taluk, Chennai District, Tamil Nadu by M/s. A G Constructions And Infrastructure LLP - For Environmental Clearance. (SIA/TN/INFRA2/422475/2023, dated 17.3.2023)


The proposal was placed in this 430th SEAC Meeting held on 14.12.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following.

1. The Proponent, M/s. A.G. Constructions and Infrastructure LLP has applied for Environmental Clearance for the Proposed Construction of IT/ITES Office Building at Old S.No.12-part, New T S.No.164, Plot No. 11, Thiru-Vi-Ka Industrial Estate of Alandur Village, Guindy Taluk, Chennai District, Tamilnadu.
2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. The project involves construction of IT/ITES Office Building comprises consisting of Extended Double Basement Floor + Stilt Floor (Part)+ First to Third Floor Parking + 8 Floors IT/ITES Building.
4. Total land area is 4046.82 Sq.m & the total built-up area of the proposed IT/ITES Office Building is 28075.17 Sq.m.
5. Earlier, the proposal was placed in this 385th SEAC Meeting held on 22.06.2023. As per CMDA land use classification it fall under Industrial use land and it consists an existing structures.

The also obtained demolition orders from CMDA.

Therefore, SEAC decided to defer the proposal and instructed the PP to complete


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the demolition work as per the instructions of the CMDA, after which the proposal can be taken up for consideration.

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 Proposed Construction of IT/ITES Office Building at Old S.No.12-part, New T S.No.164, Plot No. 11, Thiru-Vi-Ka Industrial Estate, situated at Alandur Village, Guindy Taluk, Chennai District, Tamil Nadu by the M/s. A.G. Constructions and Infrastructure LLP.
2. M/s Ecotech Labs Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is **4046.82 Sq.m** and built-up area is **28075.17 m2** respectively.
4. Maximum number of floors will be **LB+UB + 5+11 Floors** and maximum height of the building will be 49 m.
5. The project proposal falls under Category-8(a) of EIA Notification, 2006 (as amended).
6. Salient features of the project as submitted by the project proponent:

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	4046.82	SQMT
2	Proposed Built Up Area	28075.17	SQMT
3	Total no of Saleable DU's/Villas	-	No.
4	Max Height - (Height of tallest block)	49	M
5	No of Building Blocks (Residential + Community facilities)	1	
6	Max No of Floors	11	No.
7	Expected Population (XXX Residential + XXXX Floating)	2000 + 220	No.



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8	Total Cost of Project	66.9029 Crores	CR
9	EMP	Construction phase: 0.1355 Operation Phase: Capital – 1.0575 Recurring – 0.3192	CR
10	CER	0.66	CR
AREAS			
11	Permissible Ground Coverage Area (xx%)	3035	SQMT
12	Proposed Ground Coverage Area (xx%)	2055.85	SQMT
13	Permissible FSI Area (xxx)	19728.25	SQMT
14	Proposed FSI Area	16732.47	SQMT
15	Other Non FSI Areas - including basement area etc.	11342.7	SQMT
16	Proposed Total Built Up Area	28075.17	SQMT
WATER			
17	Total Water Requirement	137	KLD
18	Fresh water requirement	52	KLD
19	Treated Water Requirement	85	KLD
20	Wastewater Generation	89	KLD
21	Proposed Capacity of STP	100	KLD
22	Treated Water Available for Reuse	85	KLD
23	Treated Water Recycled	85	KLD
24	Surplus treated water to be discharged in	0	KLD

	Municipal Sewer with Prior permission, if any		
RAINWATER HARVESTING			
25	Rainwater Harvesting - Recharge Pits	9	No.
26	Rainwater Harvesting Sump Capacity	50	M ³
PARKING			
27	Total Parking Required as / Building Bye Laws	238 Cars & 476 two wheelers	ECS
28	Proposed Total Parking	268 Cars & 560 two wheelers	ECS
29	Parking in Basements	51 Cars, 545 two wheelers	ECS
GREEN AREA			
30	Proposed Green Area (Minimum 15.0% of plot area)	647.45	SQMT
	Total area	4046.82	SQMT
	Existing trees on plot	7	nos
	Number of trees to be planted	100	nos
	Number of trees to be transplanted/cut	0	
SOLID WASTE MANAGEMENT			
31	Total Solid Waste Generation	0.424	TPD
32	Organic waste	0.170	TPD
33	Mode of Treatment & Disposal	Will be treated in Organic Waste Converter and	TPD


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		used as manure for gardening.	
34	Quantity of Sludge Generated from STP & Disposal	8	KG/DAY
35	Quantity of E-Waste Generation & Disposal	0	KG/DAY
36	Quantity of Hazardous waste Generation & Disposal	0	LPD
POWER / GREEN POWER			
37	Total Power Requirement	2880	KW
38	DG set backup	3000 KVA	KVA
39	No of DG Sets	3 nos. of 1000 KVA	No.
40	Solar Panels – Roof Coverage	50	%
41	Hot Water Requirement	0	KLD
	Of which met by Solar Panels		

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's			2000
Total			-
Non-Residential			-
CLUB house (Employees etc.)			-
Club			-
Commercial			-


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Facility Management Staff			-
Total			-
Visitors			
Residential	10% of total population	xx% of Residential Population	-
Club/Community Hall	-	xx% of Residential Population	
(Maintenance Staff)	-		20
Total Visitors	-		200
Total Population	-		2220

Details of CER Activities:

S. No	CER Activity	Action Plan
1.	Government Boys' High School, Saidapet - 23 Lakhs	
a)	Improvement of school infrastructure, ✓ Sanitation facility, ✓ library, Drinking water treatment plant, ✓ Solar lighting & smart class (LED Projector with computer),	Should be completed within one year from the date of issue of EC.
b)	✓ Furniture, development of sports facilities, ✓ Greenbelt development with in school campus, Additional classrooms for schools and Maintenance of toilet for the schools mentioned upto construction phase of the Proposed Project.	
2.	Government Primary School, Adambakkam - 23 Lakhs	


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a)	Improvement of school infrastructure, ✓ Sanitation facility, ✓ library, Drinking water treatment plant, ✓ Solar lighting & smart class (LED Projector with computer),	Should be completed within one year from the date of issue of EC.
b)	✓ Furniture, development of sports facilities, ✓ Greenbelt development with in school campus, Additional classrooms for schools and Maintenance of toilet for the schools mentioned upto construction phase of the Proposed Project.	
3.	Blue Green Center for Auroville foundation – 20 lakhs	
Total Cost Allocation- 66 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 PP shall shift the temple located inside the proposed construction site.
2. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
3. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
4. 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,


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- 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.
5. 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.
 6. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
 7. 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.
 8. 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.
 9. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
 10. 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.
 11. 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 mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.
 12. 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.
 13. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

Agenda No: 430-20

(File No: 5698/2016)


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Proposed construction of residential apartment building at S.F.Nos. 399/3B, 414A/1C2 & 414A/3 of Chettypunniyam Village, Chengalpattu Taluk, Kancheepuram District, Tamil Nadu by M/s. Pallava Estate LLP – For Extension of validity of Environmental Clearance. (SIA/TN/MIS/304606/2023, dated: 26.09.2023)

The proposal was placed in this 430th meeting of SEAC held on 14.12.2023. The Project Proponent made a detailed presentation on the proposed project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). **The SEAC noted the following:**

1. The proponent M/s. Pallava Estate LLP has obtained Environmental Clearance vide Letter No. SEIAA/TN/F.5698/EC/8(a)/495/2016 dated: 05.10.2016 for the Proposed construction of residential apartment building at S.F.Nos. 399/3B, 414A/1C2 & 414A/3 of Chettypunniyam Village, Chengalpattu Taluk, Kancheepuram District, Tamil Nadu for the total built up area of 52880.42 Sq.m.
2. Now, the proponent has applied for extension of validity of earlier issued EC in Form-6 vide SIA/TN/MIS/304606/2023, dated: 26.09.2023.
3. Earlier, the proposal for extension of validity of earlier issued EC was placed in the 672nd Authority meeting held on 14.11.2023. After detailed discussion, the authority decided to forward the proposal to SEAC for remarks and recommendations.
4. The proponent had cited the reasons of the outbreak of the Coronavirus (COVID-19) and subsequent lockdowns which had put the construction activity on hold and they were unable to proceed further to complete the construction activity in time.

In the MoEF&CC Notification S.O. 221(E), dated the 18th January, 2021, it is stated that *".....the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearance granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental granted shall be treated as*


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valid....".

5. As per MoEF&CC Notification S.O. 1807(E), dated the 12th April 2022, the validity period of EC for projects other than River Valley, Nuclear and Mining Projects, the increased validity is 10 years and further extendable for one year.

6. As per MoEF&CC O. M dated 13th December 2022,

- i. The validity of the Environmental Clearances, which had not expired 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:

Provided that the period of validity of Environmental Clearance with respect to the type of Projects and Activities listed at Para 1 above may be extended in respect of valid Environmental Clearance, by the regulatory authority concerned, by a maximum period of years as indicated at Para No. 1 Column (D) above, if an application is made in the laid down proforma to the regulatory authority by the applicant as per the provisions of EIA Notification 2006: Provided further that the regulatory authority may also consult the concerned Expert Appraisal Committee before grant of such extension.

Hence, the SEAC, after detailed discussions, decided to confirm that the Environmental Clearance issued is valid up to 04.10.2027 as per the aforesaid MoEF Notifications dated 18.01.2021 and 12.04.2022 subject to the following conditions. All the other conditions stipulated in the EC Letter No. SEIAA/TN/F.5698/EC/8(a)/495/2016 dated: 05.10.2016 remain unaltered.

- 7) The PP shall furnish the action plan which was submitted to the CMDA.
- 8) As accepted by the Project Proponent, the CER cost is Rs. 70 lakhs and the amount shall be spent for the activities committed in their PPT, before obtaining CTO from TNPCB.

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
2. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.


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


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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: 430-21

(File No: 10228/2023)

Existing Re-rolling Mill with the production Capacity of 65,040 T/Annum at S.F.No.8/9, 3/1D(P), 3/1E(P), 22/1A, 22/1B & 22/1C of Vaalavanthi East Village, Musiri Taluk, Trichy District, Tamil Nadu by M/s. Arise Industries and Agency Private Limited - For Terms of Reference. (SIA/TN/IND1/436908/2023, Dated:18.07.2023).

The proposal was earlier placed in the 406th SEAC meeting held on 01.09.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Arise Industries and Agency Private Limited has applied for Terms of Reference for the Existing Re-rolling Mill with the production Capacity of 65,040 T/Annum at S.F.No.8/9, 3/1D(P), 3/1E(P), 22/1A, 22/1B & 22/1C of Vaalavanthi East Village, Musiri Taluk, Trichy District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 3(a) "Metallurgical Industries (Ferrous & Nonferrous)" of the Schedule to the EIA Notification, 2006.
3. The proponent had obtained Renewal of consent from TNPCB vide consent order No.2008232028863 under Air Act and Consent Order No. 2008132028863 under Water Act Dated: 30.04.2020 for the Manufacturing of Cold Twisted Deformed Bars, TMT Bars, Flats, Angles, Rounds & Squares with production quantity of 5420 Tons/Month and with the point source emissions of Re-heating Furnace (Wet scrubber with stack of 30m height) with validity up to 31.03.2024.
4. The proponent had obtained Renewal of consent from TNPCB vide consent


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order No.2208244083911 under Air Act and Consent Order No. 2208144083911 under Water Act Dated: 19.12.2022 for the Manufacturing of MS Billets with production quantity of 110000 Tons/Annum and with Induction Furnace-25 Tonnes (2 nos) with validity up to 31.03.2024.

Now, the proposal was placed in the 406th SEAC meeting held on 01.09.2023. During the presentation, committee noted the following

I. Notification issued by MoEF&CC from time to time

1. As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, under 3(a) in the schedule,

(1)	(2)	(3)	(4)	(5)
"3(a)	Metallurgical industries (ferrous & non ferrous)	a) Primary metallurgical industry All projects b) Sponge iron manufacturing ≥ 200 TPD c) Secondary metallurgical processing industry All toxic and heavy metal producing units $\geq 20,000$ tonnes /annum	Sponge iron manufacturing < 200 TPD Secondary metallurgical processing industry i.) All toxic and heavy metal producing units < 20,000 tonnes/annum ii.) All other non-toxic secondary metallurgical processing industries	General condition shall apply for Sponge iron manufacturing.


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			>5000 tonnes/annum	
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2. As per Notification S.O. 3067 (E) Dated: 01.12.2009, under sub para (iv) of Para V

(iv) against item 3(a), in column (5), for the entries, the following entries shall be substituted, namely: _

"General condition shall apply.

Note:

(i) The recycling industries units registered under the HSM Rules, are exempted.

(ii) In case of secondary metallurgical processing industrial units, those projects involving operation of furnaces only, such as induction and electric arc furnace, submerged arc-furnace, and cupola with capacity more than 30,000 tonnes per annum (TPA) would require environmental clearance.

(iii) Plant / units other than power plants (given against entry no. 1(d) or the schedule), based on municipal solid waste (non-hazardous) are exempted.

3. As per the MoEF&CC Notification S.O. 3250 (E) Dated: 20.07.2022,

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

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

II. Observations of SEAC

- As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, All other non-toxic secondary metallurgical processing industries >5000 tonnes/annum would require environmental clearance.


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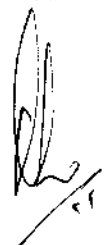

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- As per Notification S.O. 3067 (E) Dated: 01.12.2009, Metallurgical processing industrial units, those projects involving operation of **furnaces only**, such as induction and electric arc furnace, submerged arc-furnace, and cupola with capacity more than 30,000 tonnes per annum (TPA) would require environmental clearance.
- The unit was in operation with the valid consent orders obtained from the TNPCB for the Manufacturing of MS Billets with production quantity of 110000 Tons/Annum and for the Manufacturing of Cold Twisted Deformed Bars, TMT Bars, Flats, Angles, Rounds & Squares with production quantity of 5420 Tons/Month.
- However, the PP had submitted an online application for obtaining ToR for the Manufacturing of Cold Twisted Deformed Bars, TMT Bars, Flats, Angles, Rounds & Squares with production quantity of 5420 Tons/Months only and claims that the proposal is a standalone existing re-rolling unit.
- However, on perusal of the Survey number and Google imagery, it is ascertained that the proposed activity involves manufacturing of billets which is captive to the rolling unit and produces steel products viz Cold Twisted Deformed Bars, TMT Bars, Flats, Angles, Rounds & Squares which requires EC as per EIA Notification, 2006.
- Both the units are located at S.F.No.8/9, 3/1D(P), 3/1E(P), 22/1A, 22/1B & 22/1C of Vaalavanthi East Village, Musiri Taluk, Trichy District, Tamil Nadu (within the same premises).
- Further, the PP and EIA coordinator did not disclose the fact that the industry has been operating as an integrated unit where the steel ingots manufactured within the same premises is being used as raw material for re-rolling unit is captive to the plant.
- In addition to that, the EIA Coordinator had mentioned in the PPT that the Raw material (MS Billets) will be sourced from the external sources.

Based on the above-mentioned Notification, presentation and documents furnished by the project proponent, SEAC decided to obtain following details from the PP and EIA


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Coordinator.

1. The PP and EIA Coordinator shall furnish an explanation for not disclosing the fact that the existing industry involves manufacturing of MS Billets which is captive to the rolling unit which produces steel products such as cold twisted deformed Bars, TMT Bars, Flats, Angles, Rounds & Squares with production quantity of 5420 Tons/Month.
2. The PP shall furnish all the CTE and CTO copy obtained from the TNPCB so far in the chronological order.
3. The PP shall furnish if Environmental Clearance was obtained for the proposed activity. If so, the PP may also submit Certified compliance report obtained from IRO, MoEF&CC.
4. If EC was not obtained for the above, the existing industrial unit had been operating without a valid Environmental Clearance as per the schedule 3(a) – Metallurgical Industries (Ferrous & Non-ferrous) of EIA Notification, 2006. Hence, the existing unit will have to be treated as a violation case.

On receipt of the above details, the proposal was again placed in the 430th SEAC meeting held on 14.12.2023. 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.

Agenda No: 430-22

(File No: 10086/2023)

Expansion of Existing Billets manufacturing facility from 26,000 Tons per Annum to 2 Lakhs Tons per Annum at Plot No: B 13/N, B 13/S & B8/W2 of SIPCOT Industrial Complex & S.F. No. 336/13(Pt), 15(Pt), 12 (Pt), 14(Pt), 14B(Pt), 339/2A(Pt) and 347/1(Pt), 2(Pt) of Pappankuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu by M/s. M Nellaiyah Rolling Mill Private Limited- For Terms of Reference. (SIA/TN/IND1/430030/2023, Dated: 29.05.2023).

The proposal was earlier placed in the 393rd SEAC meeting held on 20.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


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The SEAC noted the following:

1. The Project Proponent, M/s. M Nellaiyah Rolling Mill Private Limited has applied for Terms of Reference for the Expansion of Existing Billets manufacturing facility from 26,000 Tons per Annum to 2 Lakhs Tons per Annum at Plot No: B 13/N, B 13/S & B8/W2 of SIPCOT Industrial Complex & S.F. No. 336/13(Pt), 15(Pt), 12 (Pt), 14(Pt), 14B(Pt), 339/2A(Pt) and 347/1(Pt), 2(Pt) of Pappankuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu. The Total Plot area is 23309.89 Sq.m.
2. The project/activity is covered under Category "B1" of Item 3(a) "Metallurgical Industries (Ferrous & Non-Ferrous)" of the Schedule to the EIA Notification, 2006.
3. The proponent had obtained CTO for Expansion from TNPCB vide consent order no. 2207249601190 under Air Act and Consent Order No. 2207149601190 under Water Act Dated: 30.12.2022 for the saleable castings using Induction furnace (8T) with panel board capacities 4500 KWA with melting capacity of 27000 tons/annum to produce MS billets with production quantity of 26000 Tons/Annum validity up to 31.03.2028.
4. Pulicat Bird Sanctuary is located at 7.82km (N)

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

1. The Committee noted that the data furnished by the Proponent is not consistent. For example,

S.No	Particulars	Existing	Proposed
1.	Production Capacity(T/A)	Billets-26,000	Billets-1,74,000
2.	Power Requirement(kVA)	4990	4800
3.	Furnace Capacity & Quantity	6T Induction furnace with 2 No's of crucibles and	8T Induction furnace with 2 No's of crucibles


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		Coal fired reheating furnace	
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2. PP/EIA coordinator shall check the correctness of data and revise the data accordingly.
3. As per MoEF&CC OM FC-11/119/2020-FC Dated: 17.05.2022, the proposed site attracts NBWL clearance as per the provision contained in para 5 of the above-mentioned OM. Hence, the proponent shall submit the acknowledgment of the application submitted in Parivesh Portal for NBWL clearance.
4. In addition to that, the Proponent shall submit the details regarding the number of Induction furnace to be used for this expansion and its capacity/Production.
5. The PP shall submit Efficiency study/report of the existing and proposed Induction furnace through reputed institution.
6. The Proponent shall submit the details about source of Raw materials to be used. If it is imported, shall furnish the details of its screening mechanism to avoid toxic materials & storage.
7. The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 50% renewable green energy to meet the energy requirement.
8. The PP shall obtain fresh water supply commitment letter from the Competent authority.

On receipt of the above details, the proposal was again placed in the 430th SEAC meeting held on 14.12.2023. 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.

Agenda No. 430 – 23

(File No.372/2023)

Existing Residential Apartment Building complex in S.F.No. 375/5B (Pt), 376/1B (Pt), 376/2B (Pt), 377/3 (Pt) of Keeranatham Village, Annur Taluk, Coimbatore District, Tamil Nadu by M/s. KGISL Technologies and Infrastructures Private Limited - For Environmental Clearance under violation category. (SIA/TN/MIN/423025/2023, dated: 22.03.2023)


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The proposal was placed in the 430th SEAC Meeting held on 14.12.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:


1. The Proponent, M/s. KGISL Technologies and Infrastructures Private Limited, has applied for Environmental Clearance under violation category for the Existing Residential Apartment Building complex in S.F.No. 375/5B (Pt), 376/1B (Pt), 376/2B (Pt), 377/3 (Pt) of Keeranatham Village, Annur Taluk, Coimbatore District, Tamil Nadu.
2. The project/ activity is covered under Category "B" of Item 8 (a) "Building & Construction" of the Schedule to the EIA Notification,2006.
3. TOR under violation category was issued vide Letter No. SEIAA-TN/F.No. 372/SEAC-CXVII/Violation/ToR-566/2018 dated:07.08.2018.
4. EIA Report was submitted on: 24.03.2023.
5. Earlier the the proposal was placed in the 369th SEAC Meeting held on 20.04.2023.

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

- i) To revise the ecological damage assessment as per CPCB Guidelines.
- ii) Actual Data pertaining to the Water usage and Ground Water recharge and Ground Water Table.
- iii) Minimum 50% of Roof Area must be covered with Solar Panels.
- iv) Enumeration of Trees within the Green Belt Area.
- v) Revised EMP shall be submitted.

Meanwhile, 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.


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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 under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.**

6. Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr. No. SEAC-TN/372/Site-Inspection/2022, dated 20.04.2023; based on Minutes of the 369th SEAC Meeting, held on 20.04.2023, to inspect and study the field condition for the proposal seeking EC for the Existing Residential Apartment Building complex in S.F.No. 375/5B (Pt), 376/1B (Pt), 376/2B (Pt), 377/3 (Pt) of Keeranatham Village, Annur Taluk, Coimbatore District, Tamil Nadu. The Committee comprised of Shri R. Thangaprakasam, Member, SEAC-TN & Shri K. Kumar, Member, SEAC-TN.
7. **The above Sub-committee's report was placed in this 404th Meeting of SEAC held on 25.08.2023. After detailed deliberation, SEAC decided to recommend the proposal to SEIAA for grant of Environmental Clearance subject to the following conditions stated therein in addition to the normal conditions:**
 1. The decision to issue EC is subject outcome in the cases pending before the Hon'ble Supreme Court of India and Hon'ble NGT (SZ) in this regard.
 2. As per the MoEF& CC Notification, S.O.1030 (E) dated:08.03.2018, "The project proponent shall 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 the Expert Appraisal Committee for category A projects or by the State or Union territory level Expert Appraisal Committee for category B projects, as the case may be, and finalized by the concerned Regulatory Authority and the bank guarantee shall be deposited.


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3. Accordingly, the amount prescribed for Ecological remediation (Rs. 1,36,93,750/-), natural resource augmentation (Rs. 4,00,50,000) & community resource augmentation (Rs. 1,42,56,250/-), is Rs. 6,80,00,000/-. The project proponent should remit the amount of Rs. Rs. 6.80 crore in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit acknowledgment of the same to SEIAA-TN. The amount shall be utilized for the ecological damage remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated.
4. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year from the date of issue of EC. If not, the bank guarantee will be forfeited to TNPCB without further notice.
8. Subsequently, the subject was placed in 655th SEIAA meeting held on 19.09.2023. In the view of the above, Authority after detailed deliberation, decided that since a court case is pending before Hon'ble Supreme Court (Civil Appeal No. 3891/2020), decided to keep in abeyance until the disposal of the case pending before Hon'ble Supreme court. Upon the receipt of final judgement, further deliberation shall be done.
9. Further, proponent vide letter dated: 04.10.2023, received by this office on 06.10.2023 had given a representation which inter alia states as follows,

"... Further, the SEAC in the meeting held on 25.08.2023 had requested us to install roof top solar panels in accordance with the revised norms for which we had duly complied the same by spending Rs. 90 lacs as per our letter dated 09.08.2023 thereby contributing to the green power energy in the project. It should be noted that while the company had completed the project during December 2014 and sold more than 433 dwelling units by 2018. However, to comply with directions of SEIAA department, the company has already spent a sum of Rs. 90 Lacs during July 2023.


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Under the above circumstances, we request your good self to drop further proceedings on the basis of the report dated 25.08.2023 and not demand any compensation in terms of your report dated 25.08.2023 and oblige."

Hence, Authority after detailed deliberation, decided to forward the above representation received from the proponent and the committee shall examine the above representation and shall furnish its recommendation to SEIAA to take further course of action.

Based on the above facts, the proposal was again placed in 430th SEAC meeting held on 14.12.2023.

The Committee carefully examined the representation given by the PP in its letter dated 04.10.2023.


The representations made by the PP and the remarks of the Committee are given below.

1. First, according to PP their case shouldn't have been dealt with as a violation case: -

The Committee has already gone through the facts involved in the case and has concluded that the proposal is a violation case & Violation ToR was issued vide Letter No. SEIAA-TN/ F.No.372/ SEAC-CXVII/ Violation/ ToR-566/ 2018 dated:07.08.2018. The PP also accepted & submitted EIA report as per laid down procedure in EIA Notification, 2006. Hence, PP's representation that their proposal is not a violation is liable to be rejected as Project proponent himself had accepted the violation ToR & had undergone process.

2. Second, the PP has represented against the amount of penalty determined by SEAC: -

SEAC has been following the guidelines finalised by CPCB to evaluate Environmental Compensation which has also been accepted by NGT. The formula and the various values assigned to various parameters have been explained in detail in the 404th SEAC meeting minutes. Therefore, SEAC finds no reason to re-examine the amount of compensation already determined based on CPCB Guidelines.


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3. **Third, the company has pointed out that, the Sub-Committee appointed by SEAC has arrived at Rs. 2.7 Crores as penalty while the SEAC has set the compensation at Rs. 6.80 Crores: -**

The Sub-Committee was Constituted to make an on-spot inspection & the Sub-Committee had given their recommendation based on the data furnished by PP during the site visit. The views of the Sub-Committee are only recommendatory in nature and SEAC takes final decision after considering all aspects including the recommendation of the subcommittee.

4. **Finally, the PP has requested the SEIAA to drop further proceeding based on committee's environmental compensation as determined by the Committee.**

The Committee is of the view that SEIAA may immediately take a decision based on the recommendation of SEAC irrespective of the case pending before Hon'ble Supreme Court as it is not an impediment for arriving at the final decision. In fact, the PP has submitted the decision of SEAC by way of additional affidavit. Further, in SEAC recommendation it has been clearly stated that the EC is subject to the outcome of a case pending before Hon'ble Supreme Court.

The Committee therefore recommends to SEIAA that immediate action may be taken to instruct the project proponent to remit the amount by way of **Bank Guarantee within 3 weeks**. Further, the PP may also be informed that if they fail to comply, stringent penal actions will be initiated which may include action to demolish the building after following the due course of law.

Agenda No. 430 – TA - 01

(File No.517/2023)

Proposed construction of Residential Building Complex entitled "MARG Brindavan" with built up area of 2,65,000 Sq.m at S.No: 88/1, 91/1, 2, 121/1B, 2B, 122/1A, 1B1, 2B, 3, 123/4B, 5B, 498/1B, 499/1, 2, 3, 4, 5, 6, 7, 8, 500/1A, 1B, 2A, 3, 4A, 5A, 6B, 501/4B, 8, 9, 10B of Pondur 'B' Village, Sriperumbudur Taluk, Kancheepuram District Tamil Nadu by M/s. MARG Properties Limited - For Environmental Clearance under Violation. (SIA/TN/MIN/27313/2018, Dated:25.08.2017).


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The proposal was earlier placed in the 419th Meeting of SEAC held on 01.11.2023. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in). **The SEAC noted the following:**

1. The Proponent, M/s. MARG Properties Limited has applied to SEIAA-TN for obtaining ToR under violation notification dated: 08.03.2018 of MoEF & CC on 31.03.2018, for the construction of Residential Building Complex entitled "MARG Brindavan" with built up area of 2,65,000 Sq.m at S.No: 88/1, 91/1, 2, 121/1B, 2B, 122/1A, 1B1, 2B, 3, 123/4B, 5B, 498/1B, 499/1, 2, 3, 4, 5, 6, 7, 8, 500/1A, 1B, 2A, 3, 4A, 5A, 6B, 501/4B, 8, 9, 10B of Pondur 'B' Village, Sriperumbudur Taluk, Kancheepuram District, Tamilnadu.
2. The ToR was issued by SEIAA vide Lr.No.SEIAA-TN/F.No.517/SEAC-CXIII/Violation/ToR-496/2018 dated:14.06.2018.
3. Based on the ToR, the proponent submitted the EIA report to SEIAA-TN on 13.07.2018. The EIA report was placed in the 117th SEAC meeting held on 27.07.2018. The Committee observed that the project of M/s. MARG Properties Limited at S.No: 88/1, 91/1, 2, 121/1B, 2B, 122/1A, 1B1, 2B, 3, 123/4B, 5B, 498/1B, 499/1, 2, 3, 4, 5, 6, 7, 8, 500/1A, 1B, 2A, 3, 4A, 5A, 6B, 501/4B, 8, 9, 10B of Pondur 'B' Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu comes under the "**Low Level Ecological damage category**". The Committee decided to recommend the proposal to SEIAA for grant of post construction EC subject to the following conditions in addition to the normal conditions:
 - The amount prescribed for Ecological remediation (Rs. 107.88 lakhs), natural resource augmentation (Rs. 43.15 lakhs) & community resource augmentation (Rs. 64.72 lakhs), totalling Rs. 215.75 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 for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.


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- 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 TNPCCB without further notice.
- The amount specified as CER (Rs. 107.88 Lakhs) shall be remitted in the form of DD to the beneficiary before issue of EC for the following activities. A copy of receipt from the beneficiary shall be submitted before issue of EC.
- Certificate for structural safety from Stability certificate should be obtained from reputed institutions like Anna University, IIT, NIT, Central Universities, Government Engineering colleges, PWD & Structural Engineering Research Centre of Government of India before obtaining CTO from TNPCCB.
- The treated excess sewage of 663 KLD should be used for watering the trees in the avenue plantation along the Sriperumbudur- Singaperumal Koil State highway (the stretch of the highway from Sriperumbudur in the north to Appur village in the south totalling to 19.5 Km) as committed by the proponent.
- "As per the MoEF & CC Notification, S.O.1030 (E) dated:08.03.2018, "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 the Expert Appraisal Committee for category A projects or by the State or Union territory level Expert Appraisal Committee for category B projects, as the case may be, and finalised by the concerned Regulatory Authority, and the bank guarantee shall be deposited prior to the grant of environmental clearance"

4. Subsequently, the subject was placed in the 329th SEIAA meeting held on 06.08.2018. The Authority decided to accept the recommendation of the


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SEAC and direct the proponent to furnish bank guarantee to Tamil Nadu Pollution Control Board as recommended by the SEAC and furnish the copy of the receipt so as to take further action.

5. The above details were communicated to the project proponent vide letter dated 06.08.2018. The Proponent has furnished a request letter on 05.12.2018 stating the following,
 - *"We have completed only 10% of the overall project so the charges raised by yourself can be completely waived.*
 - *The existing purchases/customers are all gone for RERA as the project is under standstill progress.*
 - *As the project is under standstill progress the existing purchases and the proposal purchasers and the present real estate value are all gone in an uncertain way."*
6. Hence, the subject was placed before the 335th SEIAA Meeting held on 31.12.2018. The authority decided to refer back this subject to SEAC for scrutinizes the above said representation submitted by the proponent.
7. Again, the proposal was placed in the 124th SEAC Meeting held on 04.01.2019. The Committee discussed in detail and decided that the proponent representation as requested cannot be completely waived and committee decided to stay with the recommendation already issued to the proponent.

Meanwhile, again the PP had submitted a representation to the O/o SEIAA along with present status of the project and Project Cost Certificate, stating the following,

"...we wish to state that we have completed construction of only 20% of the buildings proposed and remaining 80% of the works yet to be started. The block wise status of construction is enclosed and the total project cost of the completed construction is Rs 37.99 Crores. In view of this, we pray and request the SEAC/SEIAA to levy the charges towards the ecological damages based on the completed construction of our project i.e Rs 37.99 Crores and not on the overall project cost of Rs.431.52 Crores."


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Subsequently, the subject was placed in the 649th meeting of Authority held on 23.08.2023. After detailed discussions, the authority decided to refer back this subject to SEAC for scrutinizes the above said representation submitted by the proponent.

Again, the proposal was placed in the 419th Meeting of SEAC held on 01.11.2023. The SEAC decided to constitute a Sub Committee to examine the documents furnished by the Proponent for reassessment of ecological damage and submit its report along with the recommendations to the Committee.

The sub-committee examined the documents on 22.11.2023 (Wednesday).

The Sub Committee report was placed in the 430th Meeting of SEAC held on 14.12.2023.

The observations made by the Sub Committee are as below:

1. Context and Chronology

The chronology of the events concerning the construction of residential building complex entitled, 'MARG Brindavan' – with built up area of 2,65,000 sq.m. at S.No. 88/1, 91/1, 2, 121/1B, 2B, 122/1A, 1B1, 2B, 3, 123/4B, TB, 498/1B, 499/1, 2, 3, 4, 5, 6, 7, 8, 500/1A, 1B, 2A, 3, 4A, 5A, 6B, 501/4B, 8, 9, 10B of Pondur Village – by M/s MARG Properties Limited (file # 517/2011) are summarized in the table below:

Sl. No.	Date	Details
1	27.09.2011	Application for ToR applied to MoEF&CC (as SEIAA-TN was not constituted)
2	28.01.2013	File was transferred from MoEF&CC to SEIAA-TN
3	22.03.2013	Proposal was placed in the 38 th SEAC meeting
4	22.04.2013	ToR was issued During scrutiny it was observed that construction activity started without prior Environmental Clearance; and hence the project was considered as <i>violation</i> case as per EIA Notification 2006
5	25.08.2017	PP filed the application to MoEF&CC under violation


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		(It was done so as the prevailing MoEF&CC Notification necessitated violation cases to be processed by the MoEF&CC)
6	28.03.2018	PP resubmitted the application for consideration of ToR under violation category to SEIAA-TN (It was done following the notification S.O. 1030 (E), dated 08.03.2018 that directed the violation projects under category B to be processed at the State Level; subsequently the PP was directed to resubmit the ToR application (under violation category) to SEIAA-TN)
7	14.04.2018	Technical team was constituted for site inspection (vide Lr. No. SEAC-TN/F.No. 517/2013)
8	04.06.2018	Submission of inspection report by the technical team The technical team recommended that the proposal can be processed for issuance of ToR under violation category
9	14.06.2018	Issuance of ToR (vide Lt.No. SEIAA-TN/F.No. 517/SEAC-CXIII/Violation/ToR-496/2018)
10	13.07.2018	Submission of EIA Report to SEIAA-TN
11	27.07.2018	EIA Report was placed in the 117 th SEAC meeting Noting that the project comes under 'Low Level Ecological Damage Category', SEAC recommended the proposal for grant of post-construction EC. Further SEAC prescribed Rs. 215.75 lakh as damage (comprising Rs. 107.88 lakhs for ecological remediation; Rs. 43.15 lakhs for natural resource augmentation; and Rs. 64.72 lakhs for community resource augmentation), besides Rs. 107.88 lakhs towards CER
12	06.08.2018	SEIAA-TN accepted the SEAC recommendation and communicated the details to the PP
13	05.12.2018	Request made by the PP for waiver of the charges siting that only <u>10%</u> of the project was completed


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14	31.12.2018	SEIAA-TN referred the file back to SEAC-TN in view of the request made by the PP
15	04.01.2019	The proposal was reexamined by SEAC-TN in its 124 th Meeting, and decided to stay with its earlier recommendations (given in 117 th SEAC meeting)
16	12.03.2019 & 09.08.2023	Request made by the PP for waiver of the charges siting that only <u>20%</u> of the project was completed
17	23.08.2023	SEIAA-TN referred the file back to SEAC-TN to scrutinize the representation submitted by the PP
18	01.11.2023	The proposal was reexamined by SEAC-TN in its 419 th Meeting, and decided to constitute a Sub-Committee to examine the documents furnished by the PP for reassessment of damage (In the presentation made on 01.11.2023, the EIA coordinator mentioned that only <u>9%</u> of the project was completed)

2. Main issue

- The PP has made a representation to SEIAA-TN stating that, ‘. we wish to state that we have completed construction of only 20% of the buildings proposed and remaining 80% of the works yet to be started. the total project cost of the completed construction is Rs. 37.99 crores. In view of this, ***we pray and request the SEAC/SEIAA to levy the charges towards the ecological damages based on the completed construction of our project, i.e., Rs. 37.99 crores and not on the overall project cost of Rs. 431.52 crores.***”
- Based on the Auditor’s reports (dated. 18.07.2018 & 03.08.2023), the estimate cost of the completed construction was shown as Rs. 37.99 crores. The ecological damage and other components, and CER have been estimated correspondingly @0.5% of Rs. 37.99 crores, and @0.25% of Rs. 37.99 crores as Rs. 18.96 lakhs and Rs. 9.50 lakhs, respectively. The PP requested SEAC/SEIAA to consider levying these values towards violation. This was in contrast to the recommendations made by SEAC-TN, viz., Rs. 215.75 lakhs and 107.88 lakhs.


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- The PP also claimed that in another case, viz., M/s PBEL Property Development Pvt. Ltd., SEAC/SEIAA has levied ecological damage and other components, and the CER based on the cost associated with the violation component, and not the entire project cost.

3. Observations & Recommendation

- The sub-committee examined all the documents pertaining to M/s MARG Properties, and also those of M/s PBEL Property Development Pvt. Ltd., and noted the following.
 - There is no clarity on when the construction started and when it was stopped. The PP has not provided any details in this regard.
 - There is no clarity on the extent of completion of the project – the PP has specified different numbers at different points of project timeline (please refer to the table above). For instance, in Dec 2018 it was mentioned that only **10%** of the project is completed; in March 2019 and August 2023, it was mentioned that only **20%** of the project is completed; and in most recent presentation made in November 2023, it was mentioned that only **9%** of the project is completed.
 - The Auditor's report did not provide any information on extent of project completion.
 - The EIA coordinator (Eco Services India Pvt. Ltd.) has informed through email communication (dated, 26 October 2023) that an auction notice (see Appendix I) has been served on the PP by the local revenue authorities due to the non-compliance of RERA norms.
 - In fact, it is understood that a similar notice has served in August 2022 also. In both instances, no party participated in the auction process.
- In addition to the above, the sub-committee observed that the comparison with M/s PBEL may not be appropriate. In case of M/s PBEL there was an EC and the violation was on account of additional construction that went beyond the permitted area specified in the EC. Hence the SEAC/SEIAA recommended levying ecological damage etc., on the basis of the additional built-up area and the


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corresponding project cost. However, in case of M/s MARG Properties, there was no EC to start with and the construction started without prior EC.

- The sub-committee feels that there is no basis for accepting the request made by the PP for the reassessment of the ecological damage and other components, and the CER. The sub-committee also feels that the PP has not been very transparent – as evident from varied numbers provided to SEAC/SEIAA pertaining to the extent of project completion, and also not highlighting that auction notice has been served on the property.
- The sub-committee recommends that SEAC/SEIAA may stay with the decision taken at the 117th SEAC meeting – i.e., the project comes under 'Low Level Ecological Damage Category', with damage cost of about Rs. 215.75 lakh (comprising Rs. 107.88 lakhs for ecological remediation; Rs. 43.15 lakhs for natural resource augmentation; and Rs. 64.72 lakhs for community resource augmentation), and CER of about Rs. 107.88 lakhs.

Based on the sub-committee report, presentation by the PP and documents furnished, SEAC decided to stay with the decision taken at the 117th SEAC meeting – i.e., the project comes under '**Low Level Ecological Damage Category**', with damage cost of about **Rs. 215.75 lakh** (comprising Rs. 107.88 lakhs for ecological remediation; Rs. 43.15 lakhs for natural resource augmentation; and Rs. 64.72 lakhs for community resource augmentation), and **CER of about Rs. 107.88 lakhs.**


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ANNEXURE-I

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

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


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

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.
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.


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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.


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

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


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ROUGH STONE/JELLY/BLUE METAL QUARRY

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


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



- 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


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- houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 25) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 26) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 27) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.
- 28) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.

- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.


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

38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

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

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

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


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

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

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


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

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


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6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.
8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.


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


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19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
28. Impact on local transport infrastructure due to the Project should be indicated.
29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest


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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


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

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

2. Air quality monitoring and preservation:

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.
4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, 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.


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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


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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


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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.


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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.


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2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of Half Yearly Compliance Report (HYCR).

3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Half Yearly Compliance Report (HYCR).

11. Miscellaneous:

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.

2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.


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3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit Half Yearly Compliance Reports (HYCR) on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
6. The project proponent shall inform the Authority (SEIAA) of the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also during their presentation to the State Expert Appraisal Committee.
9. No further expansion or modifications to the plant shall be carried out without prior approval of the Authority (SEIAA).
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Authority (SEIAA) may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.


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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	விவ்வம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சளடி ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாளை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathu	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமர
9	<i>Borassus flabellifer</i>	Pana	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்குவாண்டை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்குவாண்டை
15	<i>Chloroxylon swietenia</i>	Purasamaram	பரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவுளி
18	<i>Creteva adansonii</i>	Mavalungum	மாவிவங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காளி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகளை
23	<i>Ficus amplissima</i>	Kallchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றாப்பூங்க
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயி மரம், ஆயில்
27	<i>Lansea coromandelica</i>	Odhiam	ஓதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vilamaram	விவா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பின்பட்டை முட்டைமரம்
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Minuseps elenzy</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுணா
38	<i>Phoenix sylvestre</i>	Eachai	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்


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40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malaiipoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karpala	கற்பலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கன் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strebilus asper</i>	Piray maram	பீராய் 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	தாண்டரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேண மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்புளி


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Appendix -II

Display Board

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

சுரங்கம்

சுரங்கத்தில் சுவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEAAV....., தேதி....., தேதி வரை செல்லத்தக்கதாக உள்ளது.

பகமை பகுதி வளர்ச்சி வெப்பாட்டுக்கான சுரங்கத் திட்டம்	சுவாரியின் எல்லைவாய் சுற்றி வேலி அமைக்க வேண்டும் சுரங்கப்பாதையின் ஆறும் தளமட்டத்திலிருந்து மீட்டர்க்கு கிசாமல் இருக்க வேண்டும். சுற்றுில் மாசு ஏற்படாதவாறு சுரங்க பணிகளை மேற்கொள்ள வேண்டும்.
நடப்பட்டு பராமரிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை:	வாகனங்கள் செல்லும் பாதையில் மாசு ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் வாரிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும். இரைச்சல் அளவைவரம் தூசி மாசுபாட்டையும் குறைப்பதற்காக சுவாரியின் எல்லைவாய் சுற்றி அடர்த்தியான பகமை பகுதியை ஏற்படுத்த வேண்டும்.
சுரங்கத்தில் வெடி வைக்கும்பொழுது நிலஅதிர்வுகள் ஏற்படாதவாறும் மற்றும் சுரங்க சுற்றில் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உண்டிப்பாக செயல்படுத்தப்பட வேண்டும்	
சுரங்கத்தில் இருந்து ஏற்படும் இரைச்சல் அளவு 85 டிசிபெல்ஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற் கொள்ள வேண்டும்.	
சுரங்க சட்ட விதிகள் 1955ன் கீழ் சுரங்கத்தில் உள்ள பணியாளர்களுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதொடுக்காதாமுள்ள சுழிப்பறை வசதிகளை செய்து தர வேண்டும்.	
கிராமம் அல்லது பஞ்சாயத்து வட்டியாக வாகனங்கள் செல்லும் சாலை மைய தொடர்பு நன்கு பாாமரிக்க வேண்டும்.	
சுரங்கப்பணிகளால் அசூகில உள்ள விவசாயப் பணிகள் மற்றும் தீர்நிலைகள் பாதிக்கப்படக் கூடாது.	
தீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் திலத்தடி தீரின் தரத்தினை தொடர்ந்து கண்காணிக்க வேண்டும்.	
சுரங்கத்திலிருந்து கனிம பொருட்களை எடுத்துச் செல்வது கிராம மக்களுக்கு எந்தத் கிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுச்சூழல் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும்.	
சுரங்கப்பணிகள் முடிக்கப்பட்டவுடன் சுரங்க மூடல் திட்டத்தில் உள்ளவாறு சுரங்கத்தினை மூட வேண்டும்.	
சுரங்க நடவடிக்கைகளை முடித்தபின்னர் சுரங்கப் பகுதி மற்றும் சுரங்க நடவடிக்கைகளால் இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமசனம் செய்து தாவரங்கள் விவங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகமைப்பகுதியை உருவாக்க வேண்டும்.	
முழுமையான நிபந்தனைகளை அறிய பாறியேஷ (http://peresh.nic.in) ன்ளிறு இணையதளத்தைப் பார்க்கப்படும். மேலும் எந்தவித சுற்றுச்சூழல் சார்ந்த புகார்கள் சென்னையில் உள்ள சுற்றுச்சூழல் மற்றும் வன அமைச்சத்தின் ஒருங்கிணைந்த வட்டிய அலுவலகம்: 044 - 2822325 (அல்லது) தமிழ்நாடு மாசு கட்டுப்பாடு வாரியத்தின் மாவட்ட சுற்றுச்சூழல் பொறியாளர் அலுவலகம்.	


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