

State Expert Appraisal Committee (SEAC)

Minutes of 439th meeting of the State Expert Appraisal Committee (SEAC) held on 10.01.2024 (Wednesday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building and Construction projects, Common Bio Medical Waste Treatment Facility, Mining projects and Synthetic Organic Chemical Industries.

Confirmation of Earlier Minutes

The minutes of the 438th SEAC meeting held on 04.01.2024 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 439-01

(File No: 8372/2021)

Proposed Red Earth and Pebbles quarry lease over an extent of 2.85.0 Ha (Government Poramboke land) at S.F.No. 58/1 (Part-1) of Kallamedu Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu by Thiru. P.M. Gautham - For Environmental Clearance. (SIA/TN/MIN/199607/2021, Dated: 22.02.2021)

The proposal was placed for appraisal in this 439th meeting of SEAC held on 10.01.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

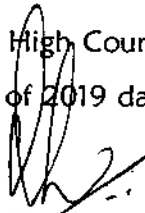
The SEAC noted the following:

1. The project proponent, Thiru. P.M. Gautham has applied for Environmental Clearance for the Proposed Red Earth and Pebbles quarry over an extent of 2.85.0 Ha (Government Poramboke land) at S.F.No. 58/1 (Part-1) of Kallamedu Village, Ulundurpet Taluk, Kallakurichi 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, this proposal was placed in 252nd SEAC meeting held on 10.03.2022.

The Committee examined the proposal submitted by the proponent in the light of the Judgment issued by the Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated


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12.02.2021. In this Judgment, the Hon'ble High Court was examining the legality of mining permits or license given by the Government for removal of minor minerals in the name of "Savudu" and other Colloquial terminologies and issued the following directions.

- i. There shall not be any grant of quarry lease without ascertaining the composition/component of the minerals and without obtaining the report from authorized lab. The Dept of Geology and Mining shall establish a lab on its own or shall authorize any lab in this regard.*
- ii. There shall not be any quarry operation in the name of colloquial terms/local terms and any lease shall be in accordance with minerals notified under section 3 (e) of the MMDR Act.*
- iii. A high-level committee has to be constituted, consisting of Geologists and Experts in the said field and eminent Officers from WRO, PWD to conduct a detailed study/survey on the possibility or the availability of the river sand on the adjacent patta lands to the rivers and those places, where sand is available, have to be notified and declared as protected zones and there cannot be any quarry operation other than by the Government, in those notified areas.*
- iv. The department of Geology and Mining, shall furnish the details of all the Savudu quarries granted so far, in the state of Tamil Nadu, to this court, within a period of eight weeks from the date of receipt of a copy of this order.*
- v. The details of all the savudu quarries shall also be furnished to the High Level Committee and High Level Committee shall inspect those quarries to ascertain the availability of sand in those quarries. In the event of High Level Committee ascertaining the availability of sand in these quarries, the same shall be reported to the Commissioner of Geology and Mining, marking a copy to this court and the Commissioner shall take necessary action as against the officials, who have granted quarry permits without ascertaining the composition of minerals.*


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- vi. Any quarry operations shall be permitted only by way of lease agreement, as per Article 299(1) of constitution of India.
- vii. The Government shall either adopt the Mineral Conservation Rules, 2017, framed by the Central Government or frame a separate Rule, as directed by the Hon'ble Supreme court in Deepak Kumar's case, within a period of six months from the date of receipt of a copy of this order.
- viii. Whenever, SEIAA clearance is required, it shall be done only physical inspection by deputing an officer attached to SEIAA and depending upon the report further proceedings may take place in accordance with law and there must be a mechanism to ensure the conditions of SEIAA are strictly complied with.

Acting on the above Judgment, the Director of Geology and mining, Govt of Tamil Nadu, in his letter No. 7240/MM6/2019 Dt. 30.7.2021, has inter alia, issued the following directions:

- No quarry lease shall be granted in areas where the test results indicate the presence of sand in the composition.
- No quarry lease shall be granted in the patta lands adjoining to the rivers, streams, canals etc.,
- No permission shall be granted for quarrying Gravel, Earth, etc., in patta land for a period less than one year.
- Lease deed shall be executed in the Form set out in Appendix IV or Appendix V to the Tamil Nadu Minor Mineral Concession Rules 1959.

In the present case, the Committee, therefore directed the proponent to submit the certain additional details for further processing the proposal.

4. This proposal was taken up in 383rd SEAC meeting held on 15.6.2022. The PP gave a detailed presentation and the SEAC decided to obtain following details from the PP.
- i. The composition/component of the minerals proposed to be quarried shall be tested in any of the laboratories authorized by the Dept of Geology & Mining as directed in the above Judgment.


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- ii. The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment.
- iii. Registered lease document in the name of applicant.

On the receipt of aforesaid details, the proposal was again placed in the 439th Meeting of SEAC held on 10.01.2024. 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 composition/component of the minerals proposed to be quarried shall be tested in any of the laboratories authorized by the Dept of Geology & Mining as directed in the above Judgment.	Minerals Composition report was obtained from Department of Civil Engineering, National Institute of Technology, Tiruchirappalli – 620015.
2.	The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment.	Letter has been obtained from the Department of Geology and Mining regarding location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not comes under any notified/declared protected zones vide Lr.No.Rc.No.B/G&M/04/2021, Dated: 27.10.2022.
3.	Registered lease document in the name of applicant.	It is a Government Land and the project proponent was awarded tender vide auction process.

The salient features of the proposal are as follows:


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File No	8372 / 2021	Category	B2 / 1(a)								
Sl. No	Salient Features of the Proposal										
1	Name of the Owner/Firm	:	Thiru. P.M. Gautham, S/o. S.V. Perumal, No.19, 11 th Avenue, A1, Ground Floor, Prashanthi Flats, Ashok Nagar, Chennai - 600 083.								
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Red Earth and Pebbles								
3	S.F Nos. of the quarry site with area break-up	:	58/1 (Part-1)								
4	Village in which situated	:	Kallamedu								
5	Taluk in which situated	:	Ulundurpet								
6	District in which situated	:	Kallakurichi								
7	Extent of quarry (in ha.)	:	2.85.0 Ha (Government Poramboke land)								
8	Latitude & Longitude of all corners of the quarry site	:	11°41'27.69"N to 11°41'36.51"N 79°24'46.47"E to 79°24'54.22"E								
9	Topo Sheet No.	:	58 – M/06								
10	Type of mining	:	Opencast Mechanized Mining								
11	Life of Project	:	2 years								
	Lease Period	:	2 years								
	Mining Plan Period	:	2 years								
12	Mining Plan Details	:	As per approved Mining Plan								
	Geological Resources m ³ (RoM)	:	As modified by SEAC								
			<table border="1"> <thead> <tr> <th>Red Earth</th> <th>Pebbles</th> <th>Red Earth</th> <th>Pebbles</th> </tr> </thead> <tbody> <tr> <td>84,602 m³</td> <td>56,402 m³</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Red Earth	Pebbles	Red Earth	Pebbles	84,602 m ³	56,402 m ³	-	-
Red Earth	Pebbles	Red Earth	Pebbles								
84,602 m ³	56,402 m ³	-	-								


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	Minable Resources m ³ (RoM)	:	Red Earth	Pebbles	Red Earth	Pebbles
			65,618 m ³	43,746 m ³	-	-
	Annual Peak Production in m ³	:	Red Earth	Pebbles	Red Earth	Pebbles
			33,998 m ³	22,666 m ³	-	-
	Ultimate Depth in meters	:	6m (4m AGL + 2m BGL)		-	
13	Depth of water table	:	40m-50m			
14	Man Power requirement per day:	:	10 Nos.			
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	2.5 KLD 0.3 KLD - 1.5 KLD 0.7 KLD			
16	Power requirement	:	18,230 Liters of HSD			
17	Precise area communication approved by Assistant Director (i/c), Department of G&M	:	Rc.No.B/G&M/04/2021, Dated:03.02.2021			
18	Mining Plan approved by Assistant Director (i/c), Department of G&M	:	Rc.No.B/G&M/04/2021, Dated:17.02.2021			
19	Department of G&M, Assistant Director (i/c) 500m Cluster Letter	:	Rc.No.B/G&M/04/2021, Dated:17.02.2021			
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 17.02.2021			

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21	Project Cost (excluding EMP cost)	:	Rs. 79,79,000/-			
22	EC Recommendation	:	Validity	2 years subject to the following upper limits.		
				Red Earth	Pebbles	
			:	Max Total RoM in m ³	65,618 m ³	43,746 m ³
			:	Annual Max RoM in m ³	33,998 m ³	22,666 m ³
:	Ultimate Depth in mtrs	6m (4m AGL + 2m BGL)				
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 14,57,000/- Recurring Cost – Rs. 5,98,900/-			
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 the annual peak production capacity of not exceeding 33,998 m³ of Red Earth and 22,666 m³ of Pebbles by maintaining the ultimate depth of mining upto 6m (4m AGL + 2m BGL) for a period of not exceeding 2 years from the date of issue of EC 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 complete the quarrying operations within a period of 2 years from the date of issue of EC.
- 2) 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


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- 3) The PP shall install the bio-toilet and rest shelter facilities for the persons employed in the mine before obtaining the CTO from the DEE/TNPCB.
- 4) The PP shall not carry out the blasting operations in the proposed quarry.
- 5) The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site.
- 6) The PP shall ensure that the trucks loaded with mineral to be covered with adequate tarpaulin cover before leave the site.
- 7) As accepted by the Project Proponent the CER cost of Rs. 2 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Middle School, Kallamedu, Thirunavalur Taluk, Kallakurichi District, before obtaining CTO from TNPCB.

Agenda No: 439 -02

(File No: 10533/2023)

Proposed Ordinary Earth (Lateritic Soil) quarry lease over an extent of 2.85.0Ha at SF.No.213/3A & 213/3B of V.Parangani Village, Vanur Taluk, Viluppuram District, Tamil Nadu by Thiru.P.Sukumaran - For Environmental Clearance.

(SIA/TN/MIN/450541/2023, Dated: 08/11/2023)

The proposal was placed in 439th meeting of SEAC held on 10.01.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, Thiru.P.Sukumaran has applied for Environmental Clearance for the proposed Ordinary Earth (Lateritic Soil) quarry lease over an extent of 2.85.0Ha at SF.No.213/3A & 213/3B of V.Parangani Village, Vanur Taluk, Viluppuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the precise area communication the lease period of 2 Years. The mining plan is for 2 Years. The Mineable reserve /production for 2 Years shall not to exceed 43765m³ of Ordinary Earth (Lateritic Soil) and the ultimate depth upto 2m BGL.


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File No	10533/2023		Category	B2
	SIA/TN/MIN/450541/2023, Dated: 08/11/2023			
Sl.No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.P. Sukumaran, S/o.Perumal, Muttrampattu Village, V.Nerkunam Post, Vikravandi Taluk, Viluppuram District- 605 501. TamilNadu State.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Ordinary Earth	
3.	S.F Nos. of the quarry site with area break-up	:	213/3A & 213/3B	
4.	Village in which situated	:	V.Parangani	
5.	Taluk in which situated	:	Vanur	
6.	District in which situated	:	Viluppuram	
7.	Extent of quarry (in ha.)	:	2.85.0Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°2'0.29"N to 12°2'8.27"N 79°41'56.94"E to 79°42'3.01"E	
9.	Topo Sheet No.	:	57-P/12	
10.	Type of mining	:	Opencast mechanized mining	
11.	Life of Project	:	2 Years	
	Lease Period	:	2 Years	
	Mining Plan Period	:	2 Years	
12.	Mining Plan Details	:	As per approved Mining Plan Ordinary Earth	
	Geological Resources m ³	:	56816m ³	
	Minable Resources m ³	:	43765m ³	
	Annual Peak Production in m ³	:	28620 m ³	
	Ultimate Depth in meters	:	2 m BGL	


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13.	Depth of water table	:	25m – 20m BGL
14.	Man Power requirement per day	:	8 Employees
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD
16.	Power requirement	:	TNEB 11664 liters of HSD
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Na.Ka.No.A/G&M/453/2019, dated:21.07.2023.
18.	Mining Plan approved by Deputy director, Department of G&M.	:	Rc.No.A/G&M/453/2019, dated:01.08.2023.
19.	500m Cluster Letter approved by Deputy director, Department of G&M,	:	Roc.No.A/G&M/453/2019, dated:01.08.2023..
20.	Deputy Director, Department of Geology and Mining in regard to Rivers, Streams, Canals,etc & protected areas letter	:	Roc.No.A/G&M/453/2019, dated:01.08.2023
21.	Deputy Director, Department of Geology and Mining in regard to Laterite Soil to Ordinary Earth	:	Roc.No.A/G&M/453/2019, dated:30.10.2023.
22.	Soil Test Report	:	Lr. Dt:18.10.2023 from Division of University of Madras & Department of Geology Guindy Campus, Chennai-25
23.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 31.10.2023.


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24.	DFO letter	:	DFO, Lr.Na.Ka.No.7893/2023/V, Dt:12.10.2023	
25.	Project Cost (excluding EMP cost)	:	Rs. 52.20 Lakhs	
26.	EC Recommendation	:	Validity	As per Approved Mining Plan
		:	Max Total in m ³	43765m ³
		:	Annual Max in m ³	28620m ³
		:	Ultimate Depth in mtrs	2m BGL
27.	EMP cost (in Rs. Lakh).	:	Rs.12.45 Lakhs for the life of the mine.	
28.	CER cost (in Rs. Lakh).	:	Rs.2.5 Lakhs including for planting Barringtonia within the proposed School premises and Rs. 1.0 lakhs towards the conservation activities in Osudu bird sanctuary with consultation of the concerned DFO.	

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 shall not exceeding 28620m³Cu.m of Ordinary Earth and the ultimate depth of mining restricted to 2m BGL for a period of 2 Years from the date of lease execution and subject to the standard conditions & 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,


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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. 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 PP shall install the bio-toilet and rest shelter facilities for the persons employed in the mine before obtaining the CTO from the DEE/TNPCB.
7. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
8. As accepted by the Project proponent the CER cost is Rs. 2.5 lakhs and the amount shall be spent for the Panchayat Union Primary School, V. Parangani Village, Viluppuram District as committed, before obtaining CTO from TNPCB.

Agenda No: 439 – 03.

(File No: 10400/2023)

Proposed Construction of Group Development – Residential cum Club House Building in Old Survey No: 40/1 & 40/2, New TSLR No. 129 in Block 13, Ward A Issa Pallavaram Village & Old S. No. 396/5 (As per TSLR Old S.No. 396/1, 396/2 & 396/3 Part), New TSLR No. ½ Part in Block 1, Ward E Zamin Pallavaram Village, Pallavaram Taluk, Chengalpattu District within the Limit of Tambaram Corporation, Tamil Nadu by the PP M/s Casagrand Builder Private Limited- For Environmental Clearance. (SIA/TN/INFRA2/443239/2023, Dt.06.09.2023)

The details of the project furnished by the proponent are given in the website (parivesh.nic.in). Earlier, the proposal was placed for appraisal in 418th meeting of SEAC held on 19.10.2023. Based on the documents furnished and the presentation made by


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the proponent, the SEAC, after detailed deliberations, decided to obtain the following details,

1. The PP shall submit fresh water supply commitment letter and disposal of excess treated water from the Competent Authority.

Subsequently, the proposal was placed in 672nd authority meeting held on 14.11.2023. The authority noted the authority noted the remarks of 418th SEAC meeting held on 19.10.2023.

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

1. The environmental clearance is sought for Proposed Construction of Group Development – Residential cum Club House Building in Old Survey No: 40/1 & 40/2, New TSLR No. 129 in Block 13, Ward A Issa Pallavaram Village & Old S. No. 396/5 (As per TSLR Old S.No. 396/1, 396/2 & 396/3 Part), New TSLR No. ½ Part in Block 1, Ward E Zamin Pallavaram Village, Pallavaram Taluk, Chengalpattu District within the Limit of Tambaram Corporation, Tamilnadu by the PP M/s Casagrand Builder Private Limited.
2. M/s Ecotech Labs Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is 14,164 m² and built-up area is 39,150 m² respectively.
4. Maximum number of floors will be 5 Floors and maximum height of the building will be 18.15 m.
5. Total Saleable DU's (dwelling units) is 202 No's.

Salient features of the project as submitted by the project proponent:

Name and Address of the PP: M/s Casagrand Builder Private Limited, No: 111/59, NPL Devi, LB Road, Thiruvanmiyur, Chennai 600 041.		Name of the Consultant M/s. Eco Tech Labs Pvt. Ltd
A. Site Location Details		
1.	Location	Issa Pallavaram Village & Zamin Pallavaram Village, Pallavaram Taluk, Chengalpattu District within


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		the Limit of Tambaram Corporation, Tamilnadu.
2.	Latitude & Longitude	12°57'53.83"N, 80° 8'41.29"E
3.	Survey Nos	Old Survey No. 40/1 & 40/2, New TSLR No. 129 in Block 13, Ward A Issa Pallavaram Village & Old S.No. 396/5 (As per TSLR Old S.No. 396/1, 396/2 & 396/3 Part), New TSLR No. ½ Part in Block 1, Ward E Zamin Pallavaram Village
4.	Area in Hectares	1.416
5.	Ownership Details	M/s Casagrand Builder Private Limited
6.	Any legal Disputes	Nil
7.	Waterbodies/Rivers/Canals	<ul style="list-style-type: none"> ➤ Adyar River- 3.25 km, NW ➤ Thirupunanthal Pond – 1.07 km, NW ➤ Sooriyamman Koil Pond – 1.43 km, NW ➤ Pallavaram Lake – 1.76 km, SE ➤ Nemilichery Lake – 1.82 km, SE ➤ Veera Raghavan Eri – 2.03 km, SW ➤ Chembarambakkam Lake – 7.90 km, NW
8.	Vulnerability to Inundation	Nil


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9.	Protected area nearby (Wildlife Protection Act)	<ul style="list-style-type: none"> > Guindy National Park – 8.67 km. NE > Arignar Anna Zoological Park, Vandaloor – 9.33 km. SW > Tambaram Air Force – 6.36 km. SW
10.	Previous EC/History in SEIAA	Nil


PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	14,164	SQMT
2	Proposed Built Up Area	39,150	SQMT
3	Total no of Saleable DU's/Villas	202	No.
4	Max Height - (Height of tallest block)	18.15	M
5	No of Building Blocks (Residential + Community facilities)	2 blocks with combined single basement	
6	Max No of Floors	5	No.
7	Expected Population (Residential + Floating)	1297 (1168 Residents + 117 Visitors + 12 Maintenance Staffs)	No.
8	Total Cost of Project	Rs. 93.72 Crores	CR
9	Project Activity:		


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AREAS			
10	Permissible Ground Coverage Area (xx%)	NA	SQMT
11	Proposed Ground Coverage Area (40%)	5671.57	SQMT
12	Permissible FSI Area (xxx)	28380.17	SQMT
13	Proposed FSI Area	28380.17	SQMT
14	Other Non FSI Areas - including basement area etc.	10769.83	SQMT
15	Proposed Total Built Up Area	39150	SQMT
WATER			
16	Total Water Requirement	177	KLD
17	Fresh water requirement	109	KLD
18	Treated Water Requirement	68	KLD
19	Wastewater Generation	149	KLD
20	Proposed Capacity of STP	169	KLD
21	Treated Water Available for Reuse	68	KLD
22	Treated Water Recycled	142	KLD
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	74	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	10	No.
25	Rainwater Harvesting Sump Capacity	116	M ³
PARKING			
25	Total Parking Required as / Building Bye Laws	249	ECS
26	Proposed Total Parking	260 cars	ECS


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27	Parking in Basements	238	ECS
GREEN AREA			
28	Proposed Green Area (Minimum 15.0% of plot area)	2474.11 (17%)	SQMT
	Total area	14164	sqm
	Existing trees on plot	-	-
	Number of trees to be planted	180	No's
	Number of trees to be transplanted/cut	-	-
SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	0.6134	TPD
30	Organic waste	0.24536	TPD
31	Mode of Treatment & Disposal	Will be treated in Organic Waste Converter and used as manure for gardening.	TPD
32	Quantity of Sludge Generated from STP & Disposal	8	KG/DAY
33	Quantity of E-Waste Generation & Disposal	-	KG/DAY
34	Quantity of Hazardous waste Generation & Disposal	-	LPD
POWER / GREEN POWER			
34	Total Power Requirement	2250	KVA
35	DG set backup	1 No of 125 kVA, 1 No of 280 kVA	KVA
36	No of DG Sets	2	No.


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37	Solar Panels – Roof Coverage	50%	%
38	Hot Water Requirement	3.25 KLD	
	Of which met by Solar Panels		

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's	202	1 BHK- 1 No's, 2BHK- 59 No's, 3 BHK- 125 No's, 4 BHK- 17 No's	1168
Total		202	
Non Residential			
CLUB house (Employees etc.)	Area	-	-
Club	-	-	-
Commercial	-	-	-
Facility Management Staff	-	-	12
Total			
Visitors			
Residential	-	10% of Residential Population	117
Club/Community Hall	-	xx% of Residential Population	-


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Commercial	-	-	-
Total Visitors			117
Total Population			1297
EMP Cost		Construction phase- Rs.32 lakhs Capital cost- Rs.189.30 lakhs Recurring cost- Rs.39.85 lakhs	
CER Cost		Rs. 1 Crore.	
Details of CER Activities		An amount of Rs. 1 Crore to be paid to "The Registrar, Anna University" for provision of Roof top solar panel & its installation in the Knowledge Park Class Room Complex, CEG Campus, Guindy, Anna University, Chennai. The activity should be completed within 3 months from the issue of EC.	

Depth of excavation of soil	2.90 m
Quantity of topsoil	16448 cum
Quantity of gravel or clay	-
Disposal of gravel or clay	-

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 submit commitment letter from the competent authority for fresh water supply and disposal of excess treated wastewater before obtaining CTE from TNPCB as committed in the affidavit dated 28.11.2023.


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2. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
3. The proponent shall utilize the excavated topsoil for landscaping in the OSR & Green Belt areas of this proposed project.
4. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
5. 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.
6. The 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.
7. The Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
8. 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.
9. The project proponent should develop green belt in the proposed project as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
10. Project proponent should invest the CER amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.


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11. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF&CC (IRO/SZ) /Director of Environment and other concerning authority regularly.
12. 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.
13. 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.
14. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

Agenda No: 439-04

(File No: 10534/2023)

Proposed Rough Stone and Gravel Quarry over an extent of 4.80.5 Ha at S.F.Nos.458(P), 459/1(P), 459/2 & 459/3(P) of Kasthuriengapuram Part-I Village, Tisaiyanvilai Taluk, Tirunelveli District, Tamil Nadu by M/s. Murugan Blue Metals-For Environmental Clearance. (SIA/TN/MIN/450743/2023, Dated: 30.10.2023).

The proposal was placed in the 439th Meeting of SEAC held on 10.01.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Murugan Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 4.80.5 Ha at S.F.Nos.458(P), 459/1(P), 459/2 & 459/3(P) of Kasthuriengapuram Part-I Village, Tisaiyanvilai Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

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


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1. The bench configurations shall be modified and accordingly the Project Proponent shall submit the revised Plan & Section indicating the revised bench configurations with exact quantity of volume of ROM available for the excavation with duly approved by the competent authority.
2. The Project Proponent shall furnish the revised EMP.

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

Agenda No: 439-05

(File No: 10548/2023)

Proposed Rough Stone Quarry over an extent of 1.62.5 Ha at S.F.Nos.106 of Chathiramkondan Village, Thiruvengadam Taluk, Tenkasi District, Tamil Nadu by Tmt. Jayalakshmi- For Environmental Clearance. (SIA/TN/MIN/451627/2023, Dated: 17.11.2023).

The proposal was placed in the 439th Meeting of SEAC held on 10.01.2024. 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.

Agenda No: 439-06

(File No: 9256/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.48.0 Ha at S.F. No.196/I of Perumanadu Village, Illuppur Taluk, Pudukkottai District, Tamil Nadu by Thiru. V. Sekaran for Environmental Clearance. (SIA/TN/MIN/443521/2023, 10.10.2023).

The proposal was earlier placed in the 420th Meeting of SEAC held on 02.11.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. V. Sekaran has applied for Environmental Clearance for the Rough Stone & Gravel quarry lease over an extent of 1.48.0


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Ha at S.F. No.196/1 of Perumanadu Village, Illuppur Taluk, Pudukkottai District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR issued vide Lr.No.SEIAA-TN/F.No.9256/TOR-1203/2022 Dated 14.07.2022.
4. Public Hearing conducted on 09.03.2023.
5. The salient features of the proposal are as follows:

File No	9256 / 20	Category	B1
Sl. No	443521/2023		1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru.V.Sekaran, S/o. Veerappan, No:137, Keelavathi, Thiruvappur, Pudukkottai – 622 003.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel
3	S.F Nos. of the quarry site with area break-up	:	196/1
4	Village in which situated	:	Perumanadu
5	Taluk in which situated	:	Illuppur
6	District in which situated	:	Pudukkottai
7	Extent of quarry (in ha.)	:	1.48.00 Ha
8	Latitude & Longitude of all corners of the quarry site	:	10°22'51.6009"N to 10°22'48.1562"N 78°44'3.9156"E to 78°43'59.7973"E
9	Topo Sheet No.	:	58 – J/11
10	Type of mining	:	Opencast Mechanized Mining
11	Life of Project	:	5 years


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	Lease Period	:	5 years			
	Mining Plan Period	:	5 years			
12	Mining Plan Details	:	As per approved Mining Plan		As modified by SEAC	
			Rough Stone	Gravel	Rough Stone	Gravel
	Geological Resources m ³ (RoM)	:	5,43,780 m ³	1860 2 m ³	4,68,855 m ³	18602 m ³
	Minable Resources m ³ (RoM)	:	1,76,380 m ³	13.27 2 m ³	1,28,035 m ³	12,252 m ³
	Annual Peak Production in m ³	:	44,145m ³	1327 2 m ³	39,140m ³	12,252 m ³
	Ultimate Depth in meters	:	38.0 m			
13	Depth of water table	:	64m BGL			
14	Man Power requirement per day:	:	18 Nos.			
15	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD			
16	Power requirement	:	500 Liters of HSD / day			
17	Precise area communication approved by District Collector	:	Rc.No.676/2021, (G&M) dated:17.02.2022			
18	Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M	:	Rc.No.676/2021, (G&M) dated:23.03.2022			
19	Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter	:	Rc.No.676/2021, (G&M) dated:23.03.2022			


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20	VAO Certificate Regarding Structures within 300m Radius	:	Letter furnished: 31.03.2022		
21	Project Cost (excluding EMP cost)	:	Rs. 44,72,000/-		
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total RoM in m ³	1,28,035 m ³	12,252m ³
			Annual Max RoM in m ³	39,140 m ³	12,252m ³
	Max Depth in mtrs		38.0 m		
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs.99,70,00/- Recurring Cost/annum – Rs.11,30,960/-		
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-		
25.	ToR Issued		Lr.No.SEIAA-TN/F.No.9256/TOR-1203/2022Dated 14.07.2022		
26.	Public Hearing		09.03.2023		
27.	EIA Report Submitted		08.09.2023		

During the presentation, SEAC noted that from the KML file uploaded by the proponent in PARIVESH portal, it is construed that:

(i) The proposed site has been quarried.

(ii) A pit has been observed on the western side of the proposed mine lease.

However, the precise area communication letter and mine plan approval letter have not mentioned about the aforesaid quarrying activity carried out.

Further, the SEAC is noted from the Reg. 111 (2) of MMR 1961 which stipulates that


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"...No working shall be made within a distance of 7.5 metres of the boundary of any mine..."

(iii) The aforesaid 'Safety zone' of 7.5 m of the boundary of the mine is also mandatory for adjacent lands for constructing the protective works which includes fencing, bunds/embankments and garland drainage. Here, it appears that the proponent has mined out the safety barrier of 7.5 m which is also not mentioned in the approved Mining Plan.

Hence, the AD/mines shall visit the site and give his comments on the above aspects.

On receipt of the above details, the proposal was again placed in the 439th Meeting of SEAC held on 10.01.2024. During the meeting the PP has made the presentation along with the above said details.

S.No	Query raised by the SEAC	Reply submitted by the PP
1.	<p>During the presentation, SEAC noted that from the KML file uploaded by the proponent in PARIVESH portal, it is construed that</p> <p>(i) the proposed site has been quarried.</p> <p>(ii) A pit has been observed on the western side of the proposed mine lease.</p> <p>However, the precise area communication letter and mine plan approval letter have not mentioned about the aforesaid quarrying activity carried out</p>	<p>i. The proposed site has been quarried by Earlier Collector's Proceedings letter vide Rc. No. 6493/2010 (G&M) dated 14.02.2011 on the lease period of 28.02.2011 to 27.02.2016 for the S.F.Nos. 194/2 (2.12.0 Ha) & S.F.No. 196/1 (1.48.0 Ha) – Totally 3.60.0 Ha by Thiru V. Sekaran. (Proponent).</p> <p>ii. The Existing pit dimensions of the project site is: 1019 sq.m x 4 m (D)</p> <p>The Existing pit letter has been obtained vide Rc.No.676/2021 (G&M) dated:23.03.2022.</p>
2.	<p>Further, the SEAC is noted from the Reg. 111 (2) of MMR 1961 which stipulates that</p>	<p>As per SEAC Recommendations, the safety distance of 7.5 m has been provided on East side for Patta Land</p>


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<p><i>"...No working shall be made within a distance of 7.5 metres of the boundary of any mine..."</i></p> <p>(iii) The aforesaid 'Safety zone' of 7.5 m of the boundary of the mine is also mandatory for adjacent lands for constructing the protective works which includes fencing, bunds/embankments and garland drainage. Here, it appears that the proponent has mined out the safety barrier of 7.5 m which is also not mentioned in the approved Mining Plan.</p> <p>Hence, the AD/mines shall visit the site and give his comments on the above aspects.</p>	<p>and 10 m safety distance has been provided on South, West & North side for Government Land. The Revised Table and Plates has been submitted. The AD Letter has been obtained vide Rc.No.676/2021 (G&M) dated:22.11.2023.</p>
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 39,140 m³ of Rough stone by restricting the ultimate depth of mining up to 38m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.


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- 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 appoint a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 before obtaining the CTO from the DEE/TNPCB and a copy of such appointment shall be sent to the DMS/Chennai Region before the execution of lease without fail.
- 5) 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.
- 6) 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.
- 7) Since the structures are situated within a radial distance of 500 m, 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.
- 8) However, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations after obtaining the 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.


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- 9) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of one year from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 10) 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.
- 11) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall within a period of six months after obtaining prior approval from the DMS/Chennai Region, 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.
- 12) As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and the amount shall be spent towards Government Higher Secondary School, Perumanadu for the activities as committed before obtaining CTO from TNPCB.

Agenda No. 439-07

(File No. 9442/2022)


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Proposed Rough stone quarry over an extent of 1.60.0 Ha at S.F.No. 72(part) and 87/1(part) of Doripalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. S. Mahesh Kumar for Environmental Clearance. (SIA/TN/MIN/442954/2023, Dated: 04.09.2023).

The proposal was earlier placed in the 421st meeting of SEAC held on 08.11.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, Thiru. S. Mahesh Kumar has applied for Environmental Clearance for the Proposed Rough stone quarry over an extent of 1.60.0 Ha at S.F.No. 72(part) and 87/1(part) of Doripalli Village, Shoolagiri 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.
3. ToR was granted vide letter. No. SEIAA-TN/ F.No. 9442/SEAC/ToR-1291/2022, dated:28.10.2022 stipulates that
Under the Reg. 106 (2) (a) of MMR 1961 states that ".....*The height of any bench shall not exceed six metres and the breadth thereof shall not be less than the height....*"
In the Mining Plan submitted during the appraisal, it was shown as the bench height is 7m in the Year wise production with a bench height of 5 m. Hence, the PP shall revise the Mining Plan for a bench geometry of 5 m height with a width of not less than 5 m and accordingly the volume shall be computed. The PP shall submit the revised Mining Plan approved by the concerned AD (Geology & Mines) during the EIA appraisal.
4. Public Hearing Conducted on 28.06.2023.
5. EIA Report Submitted on 05.09.2023.
6. The salient features of the proposal are as follows:

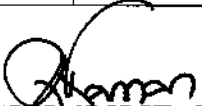
File No	9442/2023		"B1" 1(a)
	SIA/TN/MIN/442954/2023, Dated:04.09.2023	Category	EC


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Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.S.Mahesh Kumar, S/o.Srinivasan, D.no: 590, Thippepalli village, Bukkasagaram Post, Hosur Taluk, Krishnagiri District, Pin Code-635 130.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone Quarry
3.	S.F Nos. of the quarry site with area break-up	:	72(p) & 87/1(p)
4.	Village in which situated	:	Doripalli
5.	Taluk in which situated	:	Shoolagiri
6.	District in which situated	:	Krishnagiri
7.	Extent of quarry (in ha.)	:	1.60.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°42'49.20"N to 12°42'47.58"N 77°57'21.10"E to 77°57'14.63"E
9.	Topo Sheet No.	:	57 - H/14
10.	Type of mining	:	Opencast mechanized Mining
11.	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	10 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³ (RoM)	:	Rough Stone 7,87,626 m ³ Rough Stone 5,02,430 m ³


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	Minable Resources m ³ (RoM)	:	Rough Stone – 2,97,262 m ³	Rough Stone – 1,72,190 m ³
	Annual Peak Production in m ³	:	Rough Stone – 57,624 m ³	Rough Stone – 29,890 m ³
	Maximum Depth in meters	:	51m (5m AGL+46 m BGL)	37m (5m AGL+32 m BGL)
13.	Depth of water table	:	68m BGL	
14.	Man Power requirement per day:	:	18 Nos.	
15.	Water requirement: 1. Drinking water & Domestic 2. Dust suppression 3. Green belt	:	1.81KLD 0.81KLD 0.5KLD 0.5KLD	
16.	Power requirement	:	-	
17.	Precise area communication approved by the Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Rc.No. 548/2022 Dated;24.06.2022	
18.	Mining Plan approved by Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Rc.No. 548/2022 Dated;28.06.2022	
19.	Joint Director / Assistant Director(i/c), Department of Geology and Mining, 500m Cluster Letter	:	Rc.No. 548/2022 Dated;28.06.2022	


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20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated: 15.07.2022
21.	Project Cost (excluding EMP cost)	:	Rs. 3,91,20,000/-
22.	EC Recommendation	:	Validity 30 years subject to the following upper limits. Rough Stone
		:	Max Total RoM in m ³ 1,72,190 m ³
		:	Annual Max RoM in m ³ 29,890 m ³
		:	Max Depth in mtrs 37m (5m AGL + 32m BGL)
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 14,27,000/- recurring cost – Rs.9,10,700/-annum
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- as accepted by the PP
25.	Tor Issued		Lr.No.SEIAA-TN/F.No.9442/TOR-1291/2022 Dated:28.10.2022
26.	Public Hearing		28.06.2023
27.	EIA Report Submitted		04.09.2023

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

1. The PP shall submit the revised Mining Plan duly approved by the concerned AD (Geology & Mines).

On receipt of the above details, the proposal was again placed in the 439th Meeting of SEAC held on 10.01.2024. During the meeting the Committee noted that the proponent has obtained revised Mining Plan approved by the Deputy Director, Dept of Geology



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and Mining, Krishnagiri and the revised approval letter vide Roc.No.548/2022/Mines dated:10.11.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 29,890 m³ of rough stone by maintaining the ultimate depth of mining upto 37m (5m AGL + 32m BGL) and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 3) The PP shall 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 (i) 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 are situated within a radial distance of 500 m, 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.
- 6) However, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations after obtaining the


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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.

- 7) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of two years from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8) 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.
- 9) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during 3rd year or when the depth of working touches 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of


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such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 10) As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and the amount shall be spent towards Government Primary School, Desanpuram for the activities as committed before obtaining CTO from TNPCB.

Agenda No: 439-08

(File No: 8024/2020)

Proposed Multi Colour Granite Quarry over an Extent of 2.98.0 Ha at S.F.No. 568/1, 575/2 (P) & 621/2(P) of Subramaniapuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by M/s. Pokarna Limited - For Environmental Clearance under Violation. (SIA/TN/MIN/447017/2023, Dt: 06.10.2023).

The proposal was earlier placed in the 421st meeting of SEAC held on 08.11.2023. 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. Pokarna Limited has applied for Environmental Clearance under violation for the Proposed Multi Colour Granite Quarry over an Extent of 2.98.0 Ha at S.F.No. 568/1, 575/2 (P) & 621/2(P) of Subramaniapuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The quarry lease was granted vide G.O.3(D) No. 12, Industries (MMB.2) Department Dated 25.01.2007 for a period of Twenty years. The quarry lease deed was executed on 07.03.2007 and the lease period is valid upto 06.03.2027.
4. Subsequently, Environmental clearance was obtained from SEIAA, Tamil Nadu vide Lr.No.SEIAA-TN/F.No.5160/EC/1(a)/3648/2016 dated 08.08.2016 for the Multi Colour Granite Quarry over an Extent of 2.98.0 Ha at S.F.No. 568/1, 575/2 (P) & 621/2(P) of Subramaniapuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu for the quantity of 2200 cu.m of Multi Colour Granite


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upto a depth of 32m for the period of 2 years.

5. Further, Environmental clearance was obtained from DEIAA, vide Lr.No.DEIAA/VNR/103/EC.No.41/2018 dated 08.12.2018 for the Multi Colour Granite Quarry over an Extent of 2.98.0 Ha at S.F.No. 568/1, 575/2 (P) & 621/2(P) of Subramaniapuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu for the quantity of 713 cu.m of Multi Colour Granite upto a depth of 32m for the period of 1 year.
6. The PP has obtained Certified Compliance Report vide Lr.No. E.P/12.1/2022-23/SEIAA/242/TN/154 dated: 30.02.2023.
7. ToR was granted under violation Category vide letter. No. SEIAA-TN/F.No.8024/SEAC/ToR-1538/2023, dated: 21.08.2023.
8. EIA Report Submitted on 13.10.2023.
9. The salient features of the proposed project as follows

File No	8024		"B1" 1(a)	
	SIA/TN/MIN/447017/2023, Dated: 06.10.2023		Category	EC
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s. Pokarna Limited, NO:105, First floor, Surya towers, Sardar Patel Road, Secunderabad-500 003.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Multi Colour Granite Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	568/1, 575/2(P) & 621/2(P)	
4.	Village in which situated	:	Subramaniapuram	
5.	Taluk in which situated	:	Sivakasi	
6.	District in which situated	:	Virudhunagar	


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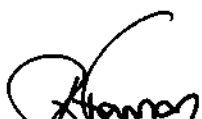

7.	Extent of quarry (in ha.)	:	2.98.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	9° 23'14.79" N to 9°23'21.07"N 77° 50'11.59"E to 77° 50'22.60"E	
9.	Topo Sheet No.	:	58- G/15	
10.	Type of mining	:	Opencast mechanized Mining	
11.	Life of Project	:	12 years	
	Lease Period	:	20 years (07.03.2007 to 06.03.2027)	
	Mining Plan Period	:	3 years (2022-23 to 2026-27)	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
			Multi Colour Granite	Multi Colour Granite
	Geological Resources m ³ (RoM)	:	ROM -203379m ³	ROM -203379m ³
			Recovery @30% 61014 m ³	Recovery @30% 61014 m ³
			Granite Waste @70% 142365m ³	Granite Waste @70% 142365m ³
	Movable Resources m ³ (RoM)	:	ROM 91,694m ³	ROM 91,694m ³
			Recovery 30% 27508m ³	Recovery 30% 27508m ³
			Granite Waste 70% 64186m ³	Granite Waste 70% 64186m ³
	Annual Peak Production in m ³	:	ROM 37746 m ³	ROM 37746 m ³


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			Recovery 30% 11234 m ³	Recovery 30% 11234 m ³
			Granite Waste 70% 26212 m ³	Granite Waste 70% 26212 m ³
	Maximum Depth in meters	:	32m	
13.	Depth of water table	:	43 m BGL to 45 m BGL	
14.	Man Power requirement per day:	:	35 Nos.	
15.	Water requirement: 4. Drinking water 5. Dust suppression 6. Green belt	:	5.0KLD 0.5KLD 3.0KLD 1.5KLD	
16.	Power requirement		TNEB	
17.	Precise area communication approved	:	G.O.(3D) No:12 Industries (MMB2) Department, Dated 25.01.2007	
18.	Mining Plan approved by Commissioner Geology & Mining.	:	Rc.No.2068/MM2/2021, Dated:22.12.2022	
19.	Assistant Director, Dept. of Geology & Mining 500m Cluster Letter		Rc.No.KV1/9748/2014 Dated: 26.02.2016	
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated: 22.02.2016	
21.	Project Cost (excluding EMP cost)	:	Rs. 1.5 Crore	


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22.	EC Recommendation	: Validity	30 years subject to the following upper limits. Multi Colour Granite
		: Max Total RoM in m ³	37,446 m ³ ROM which includes 11234 m ³ of Recovery 30% & 26212 m ³ of Granite Waste @70%
		: Annual Max RoM in m ³	37,446 m ³ ROM, 11234 m ³ of Recovery 30% & 26212 m ³ of Granite Waste @70%
		: Max Depth in mtrs	32m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 7,88,000/- recurring cost – Rs.8,02,000/-annum
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- as accepted by the PP
25.	ToR issued under violation Category	:	letter. No. SEIAA-TN/F.No.8024/SEAC/ToR-1538/2023, dated: 21.08.2023
26.	EIA Report	:	13.10.2023

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

1. The PP shall revise Chapter 13 in the EIA report dealing with Environmental Compensation for the Violation Projects as per the CPCB guidelines.
2. The PP shall submit a revised EMP as indicated by the Committee.

On receipt of the above details, the proposal was again placed in the 439th Meeting of


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SEAC held on 10.01.2024. During the meeting the PP has made the presentation along with the above said details.

S.No	Query raised by the SEAC	Reply submitted by the PP
1.	The PP shall revise Chapter 13 in the EIA report dealing with Environmental Compensation for the Violation Projects as per the CPCB guidelines.	The Chapter 13 in the EIA report dealing with Environmental Compensation (for the Violation Projects) has been revised as per the CPCB guidelines and submitted.
2.	The PP shall submit a revised EMP as indicated by the Committee.	EMP has been revised and submitted.

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 37,446 m³ ROM which includes 11234 m³ of Recovery@ 30% & 26212 m³ of Granite Waste @70% & the ultimate depth of mining up to 32m for a period of 3 years (2022-23 to 2026-27) 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 develop Green belt/plantation all along the mining lease boundary in a safety barrier.
- 3) The PP shall install the fencing and an embankment (compound wall) of not less than 1.5 m height at the south-west side of the lease (near the village road junction) for the safety aspects.
- 4) The PP shall carry out only mild blasting to create the shattering effects and shall involve more of non-explosive technique of diamond wire saw cutting for the rock breakage work.


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- 5) The PP shall not dump the waste material including the overburden outside the mine lease area.
- 6) The PP shall preferably adopt the non-explosive technique (Rock Breaking Compounds) for the fracturing of granite blocks ensuring the eco-friendly mining operation in the proposed quarry.
- 7) To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.
- 8) The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.
- 9) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 10) The PP shall appoint a Statutory Competent Person for managing the quarrying operations before the execution of lease and a copy of the appointment shall be sent to the Director of Mines Safety, Chennai Region along with Notice of Opening of the Mine under the provisions of MMR 1961.


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11) As accepted by the Project Proponent the CER cost of Rs. 5.0 Lakhs and the amount shall be spent for the Government High School, Thulukankulam Village as committed, before obtaining CTO from TNPCB.

Agenda No: 439-09

(File No: 10324/2023)


Proposed Rough Stone Quarry over an extent of 2.00.0 Ha at S.F.Nos, 152/2(part) of Doripalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.G.Venkatesh - For Environmental Clearance. (SIA/TN/MIN/430294/2023, Dated:24.06.2023).

The proposal was earlier placed in the 414th Meeting of SEAC held on 06.10.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.G.Venkatesh has applied for Environmental Clearance for the Proposed Rough Stone Quarry over an extent of 2.00.0 Ha at S.F.Nos, 152/2(part) of Doripalli Village, Shoolagiri Taluk, Krishnagiri 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 quarry lease was granted for a period of ten years. The quarry lease deed was executed on 29.11.2018 and the lease period is valid upto 26.08.2028.
4. Earlier, the project proponent has obtained EC from DEIAA vide Lr.No.03/DEIAA-KGI/EC.No.54/2018 dated: 27.08.2018 for the period of 5 years with respect to lease period.
5. The mining plan is for the period of Five years (2018 to 2023) & production should not exceed 7,41,482 cu.m of Rough stone with ultimate depth of mining 50m.

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


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1. The Project Proponent shall furnish the Scheme of Mining/Modified Mining Plan approved by the competent authority, incorporating the Revised Plan & Section indicating the revised bench configurations.
2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) for Non operation of this quarry from 28.04.2023 as per MoEF&CC O.M Dt:28.04.2023 which shall also stipulate the following information:
 - i. Original pit dimension of the existing quarry
 - ii. Quantity achieved Vs EC Approved Quantity
 - iii. Balance Quantity as per Mineable Reserve calculated.
 - iv. Month wise Production details
 - v. Mined out Depth as on date Vs EC Permitted depth
 - vi. Details of illegal/illicit mining carried out, if any
 - vii. Non-compliance/Violation in the quarry during the past working.
 - viii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
 - ix. Existing condition of Safety zone/benches
 - x. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining.
3. The PP shall submit the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and also to furnish mitigation measures/remedial action plan with the budget allocation for the non-compliance stated in the CCR.
4. The PP shall complete the fencing, tree plantation and photographs, videos of the same shall be furnished.

On receipt of the above details, the proposal was again placed in the 439th Meeting of SEAC held on 10.01.2024. During the meeting the PP has made the presentation along with the above said details.

S. No	Query raised by the Committee	Reply submitted by the PP
1.	The Project Proponent shall furnish the Scheme of Mining/Modified Mining Plan approved by the competent authority.	The modified scheme of mining plan approved by the competent authority is



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	incorporating the Revised Plan & Section indicating the revised bench configurations.	obtained and revised plan is submitted.
2.	<p>For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) for Non operation of this quarry from 28.04.2023 as per MoEF&CC O.M Dt:28.04.2023 which shall also stipulate the following information:</p> <ol style="list-style-type: none"> i. Original pit dimension of the existing quarry ii. Quantity achieved Vs EC Approved Quantity iii. Balance Quantity as per Mineable Reserve calculated. iv. Month wise Production details v. Mined out Depth as on date Vs EC Permitted depth vi. Details of illegal/illicit mining carried out, if any vii. Non-compliance/Violation in the quarry during the past working. viii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land. ix. Existing condition of Safety zone/benches x. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining. 	The Letter from the concerned AD (mines) for non-operation of this quarry is submitted.


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3.	The PP shall submit the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and also to furnish mitigation measures/remedial action plan with the budget allocation for the non-compliance stated in the CCR.	Site was inspected on 09.01.2024. We are in process of obtaining CCR and the same will be submitted at the earliest.
4.	The PP shall complete the fencing, tree plantation and photographs, videos of the same shall be furnished.	The photos of fencing, tree plantation, photographs are submitted.

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

1. The PP shall submit the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and also to furnish mitigation measures/remedial action plan with the budget allocation for the non-compliance stated in the CCR.

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

Agenda No: 438 - 10

(File No: 10542/2023)

Proposed Rough stone and Earth Quarry lease over an extent of 2.25.5 Ha at S.F.No. 16/1,16/2,16/3A,16/4 & 16/5 in Kilsevir Village, Tindivanam Taluk, Viluppuram District, Tamil Nadu by Thiru. M.Ranganathan - For Environment Clearance.

(SIA/TN/MIN/450664/2023 dt 20/11/2023)

The proposal was placed in this 439th meeting of SEAC held on 10.01.2024. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. M. Ranganathan has applied seeking Environment Clearance for the Proposed Rough stone and Earth Quarry lease


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over an extent of 2.25.5 Ha at S.F.No. 16/1,16/2,16/3A,16/4 & 16/5 in Kilsevir Village, Tindivanam Taluk, Viluppuram District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. DEIAA EC. Lr. No. DEIAA-TN/F.No. 8536/EC No. 30/2017 dated 04.12.2018.
4. DD/Mines vide letter dated 06.10.2023 has reported that a total quantity of 13800 cbm of Rough stone and 2700 cbm of Gravel had been permitted for transportation upto 28.09.2023.
5. DFO letter No. Na.Ka.En.9710/2018/F dated 23.11.2018.
6. Besides the above, it has been observed that the application for obtaining the EC was acknowledged in the DEIAA only on 23.08.2017 and the proposal was placed in the DEAC on 22.09.2017 but interestingly it has been approved only in the DEIAA meeting held on 27.11.2018 as the prior EC was granted on 04.12.2018. But the e lease deed was executed only on 29.12.2022.

Based on the presentation and documents furnished by the project proponent, SEAC directed the Project Proponent to furnish the following additional details/documents:

1. The proponent shall furnish a copy of certified compliance report issued by competent authority for the existing Environmental Clearance.
2. The PP shall furnish Modified mining plan detailing the mineral mined, duly approved by the Competent Authority.
3. The PP shall furnish the status of compliance of the conditions stipulated in the DFO letter dated 23.11.2018.
4. The PP shall furnish a letter obtained from the concerned AD (Mines) and it shall include the following:
 - (i) Existence of boundary pillars with its coordinates.
 - (ii) Original pit dimension
 - (iii) Quantity achieved Vs EC Approved Quantity
 - (iv) Balance Quantity as per Mineable Reserve calculated.
 - (v) Mined out Depth as on date Vs EC Permitted depth
 - (vi) Details of illegal/illicit mining


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- (vii) Violation in the quarry during the past working.
- (viii) Quantity of material mined out outside the mine lease area
- (ix) Condition of Safety zone/benches existing currently.

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

Agenda No: 438 - 11

(File No: 10549/2023)

Proposed Rough stone and Gravel Quarry lease over an extent of 4.88.50 Ha at S.F.No. 1875/2(P) and 1876/1B2A(P) in Kottaikarunkulam Part-II Village, Tisaiyanvilai Taluk, Tirunelveli District, Tamil Nadu by Thiru. Y.Joseph Chandran- Environment Clearance. (SIA/TN/MIN/440470/2023 dt 16/08/2023)

The proposal was placed in this 439th meeting of SEAC held on 10.01.2024. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. Y.Joseph Chandran has applied seeking Environment Clearance for the Proposed Rough stone and Gravel Quarry lease over an extent of 4.88.50 Ha at S.F.No. 1875/2(P) and 1876/1B2A(P) in Kottaikarunkulam Part-II Village, Tisaiyanvilai Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.

File No	10549		Category	B2
	SIA/TN/MIN/440470/ 2023 dt 16/08/2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.Y.Joseph Chandran, S/o. Yesumarian, No.2/157A, Market Street, Rajakrishnapuram, Levinjipuram.	


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		Radhapuram Taluk, Tirunelveli District-627 114.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel
3.	S.F Nos. of the quarry site with area break-up	:	S.F.No. 1875/2(P) and 1876/1B2A(P)
4.	Village in which situated	:	Kottaikarunkulam Part-II Village
5.	Taluk in which situated	:	Tisaiyanvilai Taluk
6.	District in which situated	:	Tirunelveli
7.	Extent of quarry (in ha.)	:	4.88.50 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	08°20'02.87"N to 08°20'09.56"N 77°45'18.74"E to 77°45'28.33"E
9.	Topo Sheet No.	:	58 H/15
10.	Type of mining	:	Opencast Semi – mechanized mining
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan As modified by SEAC
	Geological Resources (RoM) m ³	:	Rough Stone - - 2187000 m ³ Gravel - 97200 m ³
	Minable Resources in m ³ (RoM)	:	Rough Stone - - 809130 m ³ Gravel - 71610 m ³
	Annual Peak Production in m ³	:	Rough Stone - - 162875 m ³


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		Gravel -36960 m ³	
	Ultimate Depth in meters	:	47m BGL
13.	Depth of water table	:	65m-62m
14.	Man Power requirement per day:	:	35 Nos.
15.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	5.0 kLD
16.	Power requirement	:	TNEB & 659.24 KL HSD for DG Set
17.	Precise area communication approved by the Dept. of Geology & Mining	:	Rc.No.M2/17946/2022 Dated:22.09.2023.
18.	Mining Plan approved by Dept. of Geology & Mining	:	Rc.No.M2/17946/2022 Dated:06.10.2023.
19.	500m Cluster Letter issued by the Dept. of Geology & Mining	:	Rc.No.M2/17946/2022 Dated:06.10.2023.
20.	VAO Certificate regarding Structures within 300m Radius	:	Letter Dated: 27.10.2023.
21.	Project Cost (excluding EMP cost)	:	Rs.11481000/- + Labour cost of Rs.61,80,000/Annum
22.	EC Recommendation	:	Validity 30 years subject to the following upper limits. Rough Stone Gravel Max Total RoM in m ³ 809130 71610


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		: Annual Max RoM in m ³	162875	36960
		: Max Depth in m	47m BGL	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.46.29 Lakh Recurring cost – Rs. 53.54 + 5% of inflation cost every year Total EMP= Rs. 284.25 Lakh	
24.	CER cost (in Rs. Lakh).	:	Rs.8.0 Lakh as accepted by the PP	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak RoM production capacity not exceeding 162875 m³ of Rough stone & 36960 m³ of Gravel by maintaining the ultimate depth of mining of 47m 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 provide the particulars for carrying out the plantation of 2500 Nos. of tall saplings of native species within and outside the proposed mining area as committed before obtaining CTO from TNPCB.
- 3) As many a waterbody is located near the proposed lease area, the Proponent shall construct garland drain around the boundary of the proposed quarry and the photographs indicating the same shall be submitted before obtaining EC.
- 4) 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.


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- 5) 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.
- 6) 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.
- 7) Considering the village/highway roads are located within 500m 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.
- 8) 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.
- 9) 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 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.
- 10) 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


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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.

- 11) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 12) The proponent shall conduct the Safety Audit following the DGMS Guidelines laid for the purposes vide DGMS (Tech) S&T Circular No. 5 of 2016, during the 3rd year of quarrying operation to detect any unsafe condition/practice prevalent in the mine to ensure the health and safety of the workers employed. 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.
- 13) Further, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, to determine the safe working condition and slope stabilization measures 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,


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MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 14) As accepted by the Project Proponent the CER cost of Rs.8.0 lakh and the amount shall be spent for the following committed activities at Panchayat Union Primary School, Vadivammanpatti before obtaining CTO from TNPCB.

Agenda No: 439 - 12

(File No: 10297/2023)

Proposed Expansion of existing production capacity along with 26 new additional products in the category of bulk drug products and Installation of Additional Equipments in the existing facility at Plot No.85, 86, 87, 88, 105,106,107,108,109,112,113,114,115 & 116 (Survey No. 223p, 224p, 250, 251, 278 & 279p), in Pappankuppam Village Gummidipoondi Taluk Tiruvallur District by M/s. Anjan Drug Private Limited - For Terms of Reference. (SIA/TN/IND3/439141/2023 dated 05/08/2023)


The proposal was earlier placed in the 409th meeting of SEAC held on 21.09.2023. The Project Proponent made a detailed presentation on the proposed project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent M/s. Anjan Drug Private Limited has applied for seeking **Terms of Reference** for the proposed Expansion of existing production capacity along with 26 new additional products in the category of bulk drug products and Installation of Additional Equipments in the existing facility at Plot No.85, 86, 87, 88, 105,106,107,108,109,112,113,114,115 & 116 (Survey No. 223p, 224p, 250, 251, 278 & 279p), in Pappankuppam Village Gummidipoondi Taluk Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 5(f) "synthetic organic chemicals Industry Projects" of the Schedule to the EIA Notification, 2006 as amended.
3. MoEF EC F.No : J-11011/1057/2007-1A(II)) Date : 27.02.2008
4. MoEF&CC ToR Lr. No. F.No.1A-J-11011/157/2017-1A-II(I) dated 17.08.2017


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5. SEIAA TN EC Letter No: SEIAA/TN/F.6493/5(f)EC-58/2018 dated:16.02.2018
6. CPCB Lr. No. 29016/04/06/1pc-1/9289 dated 02.08.2018
7. IRO CCR F.No.EP/12.1/2022-23/SEIAA/157/TN/1327 dated 06.12.2022
8. TNPCB Procs. T6/TNPCB/F.No.0164GMP/RL/W&A/2023 dated 16.07.2023

Previous history of File: (F. No. 6493)

The subject was placed in 622nd meeting of SEIAA held on 26.05.2023. The Authority noted that earlier Environmental Clearance was accorded vide Letter No. SEIAA/TN/F. 6493/5(f)EC -58/2018 dt:16.02.2018 for Expansion of Production of Bulk Drug Unit at plot no. 85 to 88, 105 to 109,112 to 116, SIPCOT Export Promotion, Industrial Park (EPIP), Gummidipoondi, Tiruvallur District. The Authority noted that a letter has been received from MoEF&CC vide F.No. EP/12.1/2022-23/SEIAA/157/TN/1327 Dated: 16.12.2022 wherein it is stated that during the site visit carried out by the officials from IRO on 11.11.2022 following major non-compliances, amongst others, were observed during the visit:

1. Improper storage of Hazardous Chemicals.
2. Validity expired for CTO and HW Authorization.
3. The unit has no valid CTO from 30.09.2020 to 11.11.2022.
4. The unit has no valid HW Authorization from 30.09.2020 to 11.11.2022.

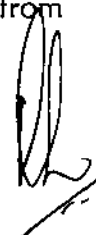
Based on the above, Authority after detailed deliberation, decided to forward the subject to SEAC and SEAC shall examine the letter received from MoEF & CC and shall furnish its remarks regarding the non – compliance of the earlier issued EC conditions to SEIAA. Hence the proposal was placed in the 404th SEAC meeting held on 25.08.2023. Based on the presentation and documents furnished by the proponent, SEAC decided to call for the additional details as stipulated below:

1. The proponent shall assess the damage caused due to the improper storage of formic acid and other hazardous chemicals within the premises as a part of noncompliance under the provisions of the CPCB Guidelines and the same shall be submitted.
2. The proponent shall submit the certified compliance report obtained from


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Integrated Regional Office, MoEF&CC, Chennai.

Upon the receipt of above said details, further deliberation shall be done.

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

Now the subject was placed in this 439th meeting of SEAC held on 10.01.2024 and the Committee noted that the PP is yet to furnish the details sought above. Hence the SEAC decided to defer the subject to a later date directing the PP to furnish the details sought.

Agenda No: 439 - 13

(File No: 7766/2020)

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

(SIA/TN/MIN/136324/2020 Dt:11.01.2020)

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

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

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

The Soil composition report obtained from anyone of these approved Laboratories in the prescribed format shall be furnished in accordance with the directions issued by the


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Director of Geology and Mining Lr. No. 7240/MM6/2019, dated. 30.07.2021.

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

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

Now the subject was taken up for discussion in this 439th meeting of SEAC held on 10.01.2024. The SEAC noted that the PP has furnished the soil composition analysis report dated 27.11.2023.

File No	7766		Category	B2
	SIA/TN/MIN/136324/2020 dt 11.01.2020			1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.S.Ramamaoorthy S/o.Subramani, No.679, Bajanaikovil Street, Sembarapakkam Village, Poonamalle Taluk, Tiruvallur District – 600123.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/ Limestone)	:	Ordinary Earth	
3.	S.F Nos. of the quarry site with area break-up	:	S.F.Nos. 193/1 (Part)	
4.	Village in which situated	:	Kaivandur Village	
5.	Taluk in which situated	:	Tiruvallur Taluk	


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6.	District in which situated	:	Thiruvallur
7.	Extent of quarry (in ha.)	:	3.17.50 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	13°08'01"N to 13°08'06"N 79°51'32"E to 79°51'41"E
9.	Topo Sheet No.	:	57 O/16
10.	Type of mining	:	Opencast semi mechanized method of mining.
11.	Life of Project	:	55 days
	Lease Period	:	55 days
	Mining Plan Period	:	55 days
12.	Mining Plan Details	:	As per approved Mining Plan As modified by SEAC
	Geological Resources in m ³ (RoM)	:	Ordinary Earth – 28575 m ³
	Minable Resources in m ³ (RoM)	:	Ordinary Earth – 28575 m ³
	Annual Peak Production in m ³	:	Ordinary Earth – 28575 m ³
	Maximum Depth in meters	:	0.9m BGL
13.	Depth of water table	:	18m BGL
14.	Man Power requirement per day:	:	9 Nos.
15.	Water requirement:	:	1.0 kLD
	a. Drinking & Utilized water b. Dust suppression & Green Belt	:	0.3 kLD & 0.4 kLD 0.3 kLD
16.	Power requirement	:	TNEB 476000 litre of HSD will be utilized


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17.	Precise area communication approved by Dept. of Geology & Mining	:	Rc.No.271/2018/Mines-2, Dated:31.12.2018.	
18.	Mining Plan approved by Dept. of Geology & Mining	:	Rc.No.271/2018/Mines-2, Dated:01.02.2019.	
19.	500m Cluster Letter issued by Dept. of Geology & Mining	:	Rc.No.271/2018/Mines-2, Dated:19.07.2019 and 30.08.2023	
20.	VAO Certificate regarding Structures within 300m Radius	:	Letter dated: 23.04.2019	
21.	Project Cost (excluding EMP cost)	:	Rs. 6.41 Lakh	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	Ordinary Earth 28575
		:	Annual Max RoM in m ³	298575
		:	Max Depth in m	0.9 m BGL
23.	Total EMP cost (in Rs. Lakh).	:	Rs.3.10 Lakh	
24.	CER cost (in Rs. Lakh).	:	Rs. 1.0 Lakh as accepted by the PP	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 28575 m³ of Ordinary Earth by maintaining the ultimate depth of mining of 0.9m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by


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MOEF &CC, in addition to the following specific conditions:

- i. The prior Environmental Clearance granted for this mining project shall be valid for the project life for a period of not exceeding one year from the date of lease execution.
- ii. The Project Proponent shall ensure the duration of lease period for the proposed mining is not less than one year as directed by Hon'ble High Court of Madras (Madurai Bench) in its orders dated 12.02.2021 in W.P.(MD)Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 at the time of lease execution.
- iii. The proponent shall provide the particulars for carrying out the plantation of 1500 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- iv. The PP shall install the bio-toilet and rest shelter facilities for the persons employed during the quarrying operation before obtaining the CTO from the TNPCB.
- v. The PP shall ensure that the trucks carrying the loaded material are properly covered with tarpaulin such that no spillage occur on the village roads.
- vi. The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site.
- vii. As accepted by the Project Proponent the CER cost of Rs. 1.0 Lakh and the amount shall be spent for the committed activities at e Government Primary School, Kaivandur Village before obtaining CTO from TNPCB.

Agenda No: 439-14

(File No: 10339/2023)

Proposed Establishment of Common Bio Medical Waste Treatment Facility (CBMWTF) at S.F.No. 245(6pt, 7pt), Plot No. S8-A and S8-B, Ingur Village, SIPCOT Industrial Park, Perundurai Talluk, Erode District, Tamil Nadu by M/s. ECO Trees India Private Limited - For Term of Reference. (SIA/TN/INFRA2/439966/2023 Dated: 14/08/2023)

The proposal was earlier placed in the 418th meeting of SEAC held on 19.10.2023 and 424th meeting of SEAC held on 16.11.2023. The SEAC noted that the PP has requested


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for postponing the appraisal of the subject. Hence the SEAC decided to defer the subject to a later date and to call for explanation from the PP for not attending the scheduled meeting for the second time consecutively.

Now the proposal was taken up for appraisal in this 439th meeting of SEAC held on 10.01.2024. The Project Proponent made a detailed presentation on the proposed project. 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. ECO Trees India Private Limited** has applied seeking Terms of Reference for EIA study the Common Bio - Medical Waste Treatment facility proposed at S.F.No. 245(6pt, 7pt), Plot No. 58-A and 58-B, Ingur Village, SIPCOT Industrial Park, Perundurai Talluk, Erode District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 7d(a) "Common Bio Medical Treatment Facilities (CBWTF)" of the Schedule to the EIA Notification, 2006 as amended.

Based on the presentation made by the proponent, SEAC noted the following


- I. **Office Memorandum issued by MoEF&CC Dated: 27.04.2018** regarding exemption from Public Consultation for the projects/ activities located within the Industrial Estates / Parks as follows
 - (i) The exemption from public consultation, as provided under para 7(i) III Stage (3)(i)(b) of EIA Notification, 2006, to the projects or activities located within the industrial estates or parks, if applicable as under:
 - (a) Which were notified by the Central Government or the State/UT Governments, prior to the said notification coming into force on 14th September, 2006.
 - (b) Which obtain prior environmental clearances as mandated under the EIA Notification, 2006 [item 7(c) of the schedule to the said Notification].

II. Perundurai SIPCOT was notified under G.O.Ms.No.91 Dated: 27.02.1991.

In the view of the above, Committee observed that


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- (a) The project/ activity is proposed in the **Perundurai SIPCOT** which was notified prior to the EIA Notification, 2006 coming into force on 14th September 2006.
- (b) Hence, as per the provisions contained in clause (a) of para (i). Public Hearing exemption under para 7(i) III Stage (3)(i)(b) of EIA Notification is applicable for the proposed activity.

Hence, based on the above facts and provisions contained in the office memorandum issued by MoEF&CC, Committee decided to recommend for grant of **Terms of Reference (TOR) without Public Hearing** for the EIA study subject to the following ToRs in addition to the standard ToR for EIA study for Common Bio Medical Treatment Facilities (CBWTF) and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. **The Project Proponent shall consult the District Pollution Control Board regarding the suitability of the project site for establishing Common Bio - Medical Waste Treatment Facility and furnish the details.**
2. **A gap analysis shall be carried out on the quantity of the Bio Medical Waste generated and availability of the treatment and disposal facilities in the district and furnish report.**
3. **Every industry located in the SIPCOT shall be served individual notice regarding the proposed establishment of CBWTF.**
4. **A detailed note on the technology proposed to be adopted for treatment and disposal of Bio medical waste and the advanced technology currently in practice world-wide shall be furnished.**
5. **The PP shall furnish the roadmap for achieving Net Zero waste.**
6. **The Company shall submit the environmental policy duly approved by the Board of Directors.**
7. **The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 50% renewable green energy from TNEB to meet the energy requirement.**
8. **Establishment of the facility as per Bio Medial Waste Management Rules 2016 as amended.**
9. **Land requirement for the facility including its break up for various purposes, its availability and optimization.**

10. Details of proposed layout clearly demarcating various activities such as security.
11. Details on collection and transportation of Bio Medical Waste from health care establishments, No. of vehicles and feature of vehicles, etc.
12. Details of the incineration system – a statement on the compliance to the CPCB guidelines for common bio medical waste incinerators in respect of waste feed cutoffs, operating parameters of combustion chambers, flue gas cleaning, ash handling, etc.
13. The PP shall furnish the compliance status of the directions/guidelines issued by CPCB with respect to CBMWTF.
14. Details on fuel requirement for incineration.
15. Details on flue gas emissions discharge through stack analysis of toxic pollutants and proposed pollution control technologies.
16. Details on residue/ash generation and management.
17. Details on area storage of BMW, in case of maintenance flow of waste of detail action plan shall be part at EIA study.
18. Details of the proposed overall safety and health protection measures.
19. Details of the existing access road(s)/walkways to the designed operations in the site and its layout.
20. Land use map based on satellite imagery including location specific sensitivities such as national parks / wildlife sanctuary, villages, industries, etc.
21. Surface water quality of nearby water bodies.
22. Details on proposed groundwater monitoring wells, locations, frequency of monitoring, parameters, etc.
23. Action plan for the greenbelt development in accordance with CPCB published guidelines. The PP shall no fruit bearing trees developed as part of green belt.
24. Details on pollution control technologies and online monitoring equipments.
25. Details of the emergency preparedness plan and on-site & off-site disaster management plan.
26. The proponent shall explore the possibility for use of green technology like plasma technology, etc.,
27. The proponent shall conduct Socio-economic and health survey.


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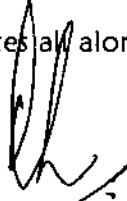

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28. A detailed incinerator design needs to be submitted on the likelihood of emission, possible types of gases coming out of the process and its measures and mitigation.
29. The proponent shall furnish SOP for the process.
30. The proponent shall conduct a detailed study on water, land and Air quality.
31. Proponent shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
32. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
33. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to proposed 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.
34. 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.
35. The Proponent shall carry out the Cumulative impact study due to project activity 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 proposed site and the surrounding habitations in the mind.
36. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
37. 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.

38. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for proposed operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB should be secured and furnished to the effect that the proposed project activities could be considered.
39. 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.
40. Impact on local transport infrastructure due to the Project should be indicated.
41. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) at the project site.
42. 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.
43. The purpose of Greenbelt 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, & Tamil Nadu 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.
44. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the


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boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.

45. A Disaster management Plan and Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report.
46. 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 project site area may be detailed.
47. 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.
48. The Socio-economic studies should be carried out within a 5 km buffer zone from the project site. 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.
49. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
50. 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.
51. The Proponent shall prepare the EMP for the entire life of project and also furnish the sworn affidavit stating to abide the EMP for the entire life of project.
52. 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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7(da): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT
IMPACT ASSESSMENT STUDY FOR BIO-MEDICAL WASTE TREATMENT
FACILITIES AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

I. Project Details

- i. Importance and benefits of the project.
- ii. Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of environmental damages, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site.
- iii. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- iv. Details of various waste management units with capacities for the proposed project. Details of utilities indicating size and capacity to be provided.
- v. List of waste to be handled and their characteristics. Details of temporary storage facility for storage of Bio-medical waste at project site.
- vi. Other chemicals and materials required with quantities and storage capacities.
- vii. Detailed design of pre-treatment and waste stabilization facility of *Bio-medical waste*.
- viii. Project proponents would also submit a write up on how their project proposal conform to the stipulations made in the " Bio-Medical Waste Management Rules, 2016 ", notified by the MoEF&CC on 28th March, 2016.
- ix. Process description along with major equipment and machineries, process flow sheet (quantitative) from *Bio-Medical waste* material to disposal to be provided.
- x. Details of man-power requirement (regular and contract).


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- xi. A detailed layout of the project site indicating all the project components.

II. Road and Traffic

- xii. Submit the details of the road/rail connectivity along with the likely impacts and mitigative measures.
- xiii. Examine the details of transportation of Bio-Medical wastes, and its safety in handling.

III. Land Environment

- xiv. Detailed soil analysis of the site including its permeability, water holding capacity be included.
- xv. Submit the present land use and permission required for any conversion such as forest, agriculture etc.
- xvi. Specify the land area and space allotted for each activity proposed within the facility. The area requirements for each activity shall be calculated as per the CPCB guidelines for the specified activity.
- xvii. Status of the land purchases in terms of land acquisition Act. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xviii. The EIA would address to the conformity of site to the stipulations as made in the Bio-Medical Waste Management Rules, 2016 and Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and will have a complete chapter indicating conformity to the said rules. NOC shall be obtained from State Pollution Control Board/Committee (SPCB/SPCC) regarding site suitability for establishment of Bio-Medical Waste Treatment Facilities.
- xix. Post project reclamation management program with financial allocation.

IV. Environmental Monitoring and Management

- xx. Examine and submit the details of on-line pollutant monitoring.
- xxi. Project proponent must ensure Good Combustion Practice (GCP) to reduce the possibilities of formation of 'Total dioxins and furans'. In addition, GCP must be coupled with appropriate End-of-the-pipe treatment at low temperature to reduce the emission of 'Total dioxins

and furans' below the standards. Further, the project proponent must provide detailed Standard operating procedure (SOPs) for sampling and monitoring of 'Total dioxins and furans'.


- xxii. Environmental Management Plan should be accompanied with Environmental Monitoring Plan and environmental cost and benefit assessment. Regular monitoring shall be carried out for odour control.
- xxiii. Water quality around the landfill site shall be monitored regularly to examine the impact on the ground water.
- xxiv. A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.
- xxv. Air Quality Index shall be calculated for base level air quality.
- xxvi. Baseline data on Ground water quality is required.
- xxvii. Possible carbon footprint contribution from each and every activity and mitigation measures proposed shall be included as part of Environment Management Plan.

V. Waste Management

- xxviii. Examine and submit details of the proposed odour control measures.
- xxix. The storage and handling of Bio-Medical wastes shall be as per the Bio-Medical Waste Management Rules, 2016.
- xxx. Details of storage and disposal of pre-processing and post-processing rejects/inerts and products. List of proposed end receivers for the rejects/inerts/products should be provided. MoUs to be submitted in this regard.
- xxxi. Details of hazardous/solid waste generation and their management.

VI. Water Environment

- xxxii. Detailed hydro-geological studies and possible impact if any accidental contamination occurs shall be included.
- xxxiii. Examine and submit details of monitoring of water quality around the landfill site.
- xxxiv. Examine and submit details of impact on water body and mitigative measures during rainy season.
- xxxv. Details of Drainage of the project up to 5 km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided.


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VII. Water Management

- xxxvi. Details of effluent treatment and recycling process.
- xxxvii. A certificate 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.

VIII. Energy Management

- xxxviii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project.

IX. Disaster Management Plan

- xxxix. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
- xl. Hazard identification and proposed mitigation measures.

X. Green Belt

- xli. A detailed Plan for green belt development.

XI. Socioeconomic Environment

- xlii. Public hearing to be conducted for the project in accordance with provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the ToR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.
- xliii. The project proponents shall satisfactorily address all the complaints/suggestions that have been received against the project till the date of submission of proposals for Appraisal.

XII. Court Cases

- xliv. Details of litigation pending against the project, if any, with direction/order passed by any Court of Law against the Project should be given.

XIII. Miscellaneous

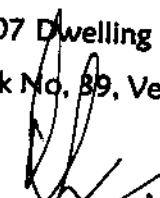
- xlv. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website <http://moef.nic.in/Manual/Incinerator>.

Agenda No: 439 – 15

(File No: 10332/2023)

Proposed Reconstruction of (G+5 Floor) Residential Building with 607 Dwelling units & 5 Electrical Rooms at Parvathi Kakkan Colony in S.No 1736/27, Block No. 89, Vepery


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Village, Chennai District, Tamil Nadu by M/s. Tamil Nadu Urban Habitat Development Board - For Environmental Clearance. (SIA/TN/INFRA2/440669/2023, Dated: 17/08/2023)

The proposal was earlier placed in the 415th meeting of SEAC held on 12.10.2023. The project proponent made a detailed presentation. The details of the project furnished by the proponent are available on the PARIVESH website (parivesh.nic.in).

During the meeting the SEAC further noted that (1) the PP has proposed only 6% of total land area for developing green belt as against the norm of 15% minimum at the project site, (2) layout of the new design seems to be congested and not conducive for hygienic living and (3) as the site is located within the city, PP should explore the possibility of constructing more dwelling units by adding more floors. SEAC, therefore, directed the PP to consider the above and submit their response. On receipt of the same, the Committee will further deliberate and decide on future course of action.

The PP furnished the reply and hence the subject was taken up for discussion in this 439th meeting of SEAC held on 10.01.2024. Based on the document 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 Reconstruction of (G+5 Floor) Residential Building with 612 Units (607 Dwelling units & 5 Electrical Rooms) at Parvathi Kakkan Colony in S.No 1736/27, Block No. 39, Vepery Village, Chennai District by Tamil Nadu Urban Habitat Development Board."
2. The project site has at present, 19 residential blocks with 594 dwelling units(G+4) constructed during 1970's with total built-up area of 15,948.29 sq.m all in dilapidated condition.
3. Approval has been sought for demolition of the existing buildings, fresh water supply and disposal of sewage.
4. M/s. ABC Techno Labs India Private Limited is the EIA Consultant for the project.
5. Total plot area of the project is 10,296.68 sq.m and built-up area is 23,705.34 sq. m respectively.
6. Maximum number of floors will be 5 Blocks – S+5 and maximum height of the building will be 18.5 m.


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7. Total Saleable DU's (dwelling units) is 607 units.

8. Salient features of the project as submitted by the project proponent:

Project Summary			
Sl. No.	Description	Total Quantity	Unit
General			
1	Plot Area	10,296.68	SQMT
2	Proposed Built Up Area	23,705.34	SQMT
3	Total no of Saleable DU's/Villas	607	No.
4	Max Height - (Height of tallest block)	18.5	M
5	No of Building Blocks (Residential + Community facilities)	5	No.
6	Max No of Floors	S+ 5	No.
7	Expected Population	3,366	No.
8	Total Cost of Project	105.28	Cr.
9	Project Activity	Tamil Nadu Urban Habitat Development Board (TNUHDB) has proposed Reconstruction of (G+5 Floor) Residential Building with 612 Units (607 Dwelling units & 5 Electrical Rooms) at Parvathi Kakkam (PK) Colony in S.No 1736/27, Block No. 39, Vepery Village, Chennai District. The total built up of area and plot area of the proposed project is 23705.34 Sq.m and 10296.68 Sq.m respectively. Since the proposed activity constitutes construction of buildings in an area greater than 20,000 Sq. m., and less than 1,50,000 Sq.m. it requires Environmental Clearance	


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Project Summary			
Sl. No.	Description	Total Quantity	Unit
		from State Environment Impact Assessment Authority (SEIAA) under sector 8(a) of EIA Notification 2006.	
Areas			
1	Permissible Ground Coverage Area (70%)	7,207.676	SQMT
2	Proposed Ground Coverage Area (38.1%)	3920.89	SQMT
3	Permissible FSI Area (2.8)	28,830.7	SQMT
4	Proposed FSI Area (2.3)	23,705.34	SQMT
5	Other Non FSI Areas - including basement area etc.	0	SQMT
6	Proposed Total Built Up Area	23,705.34	SQMT
Water			
1	Total Water Requirement	417.69	KLD
2	Fresh water requirement	276.93	KLD
3	Treated Water Requirement	140.76	KLD
4	Wastewater Generation	376.15	KLD
5	Proposed Capacity of STP	400	KLD
6	Treated Water Available for Reuse	338.54	KLD
7	Treated Water Recycled	153.76	KLD
8	Surplus treated water to be discharged in Municipal Sewer with Prior permission	184.78	KLD
Rainwater Harvesting			
1	Rainwater Harvesting - Recharge Pits	42	No.
2	Rainwater Harvesting Sump Capacity	0	M ³


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Project Summary			
Sl. No.	Description	Total Quantity	Unit
Parking			
1	Total Parking Required as / Building Bye Laws	673	ECS
2	Proposed Total Parking	673	ECS
3	Parking in Basements	-	ECS
Green Area			
1	Proposed Green Area (Minimum 15.0% of plot area)	1544.52 (15.0%)	SQMT
2	Total plot area	10,296.68	sq.m
3	Existing trees on plot	-	
4	Number of trees to be planted	129	
5	Number of trees to be transplanted/cut	-	
Solid Waste Management			
1	Total Solid Waste Generation	1545.3	KG/DAY
2	Organic waste	618.12	KG/DAY
3	Mode of Treatment & Disposal	Organic Waste Convertor	
4	Quantity of Sludge Generated from STP	-	KG/DAY
5	Quantity of E-Waste Generation & Disposal	-	
6	Quantity of Hazardous waste Generation & Disposal	-	
Power / Green Power			
1	Total Power Requirement	TANGEDCO tuned to 2100	KW
2	Solar Panels – Roof Coverage	50 %	%


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Project Summary			
Sl. No.	Description	Total Quantity	Unit
		(Roof coverage = 1690 sq.m)	
3	Hot Water Requirement	At rate of 10 litre	25840
	Of which met by Solar Panels	14100 at rate of 300 litre per solar water heater	
4	DG set backup	62.50 kVA	KVA
5	No of DG Sets	13	No.

Population Details				
S. No	Description	DU's	POP/DU	Total Population
1	Residential	607	5	3035
2	Total Saleable DU's	607	5	3035
3	Total	607	5	3035
4	Non-Residential	5	5	25
5	Club house (Employees etc.)	Area	-	-
6	Club	-	-	-
7	Commercial	-	-	-
8	Facility Management Staff	-	-	-
9	Total			
10	Visitors			306
11	Residential		90.17% of Total population	
12	Club/ Community Hall		9.09% of Total population	
13	Commercial			

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Population Details				
S. No	Description	DU's	POP/DU	Total Population
14	Total Visitors		100%	306
15	Total Population			3366

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 Silver rating.
2. The Proponent shall furnish the detailed report on emission, noise and vibration due to the operations of DG sets as proposed and the same shall be furnished to TNPCB before obtaining CTO and copy submitted to SEIAA-TN.
3. The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 50% renewable green energy from TNEB to meet the energy requirement.
4. The PP shall ensure that at least 50% of the HVAC system runs on air cooling mechanism.
5. The PP shall adopt IGBC Net Zero Water System.
6. The proponent shall provide the solar canopies on the parking area as per the requirements at ground level.
7. The Board shall have a well laid down environmental policy duly approved by the Board of Directors that should be submitted to SEIAA before obtaining EC.
8. The PP shall furnish NOC from the Airport authority for Height Clearance before obtaining EC.
9. 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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10. 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.
11. 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.
12. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
13. 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.
14. 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.
15. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
16. 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.
17. 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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18. 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.

19. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

Agenda No: 439-16

(File No: 10304/2023)

Proposed Construction of Commercial Building at S.F.Nos.725/19A1, 725/20A2, 725/20A4 and 725/23B, Unnamalaikadai Village, Vilvancode Taluk Kanyakumari District, Tamil Nadu by M/s. Ramachandran - For Environmental Clearance.

(SIA/TN/INFRA2/438117/2023, Dated: 29/07/2023)

The proposal was earlier placed in the 414th SEAC meeting held on 06.10.2023. 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. Ramachandran has applied seeking Environmental Clearance for the Proposed Construction of Commercial Complex (3 Basements + Ground floor+ 4 floors+ Head room) at S.F.Nos.725/19A1, 725/20A2, 725/20A4 and 725/23B, Unnamalaikadai Village, Vilvancode Taluk Kanyakumari District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item 8(a) "Building & Construction Projects" of the Schedule to the EIA Notification, 2006 as amended.
3. Total plot area of the project is 6589.44 sq.m and built-up area is 28195.69 sq. m respectively.

On scrutiny of the documents furnished by the PP, the SEAC noted several discrepancies in the conceptual plan and the application furnished by the PP and the EIA coordinator. Hence the Committee decided to defer the appraisal of the project to a later date directing the PP to resubmit the online application form in complete shape with all


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relevant supporting documents and also to furnish the rationale behind filing two online applications seeking EC for the same project.

The PP furnished the reply and hence the subject was taken up for discussion in this 439th meeting of SEAC held on 10.01.2024. Based on the presentation and the documents furnished by the PP, the SEAC decided to seek the following additional particulars from the PP:

1. The PP shall furnish the copy of fresh water supply commitment letter obtained from the local body.
2. The PP shall furnish the break-up details of the water requirement and usage for HVAC system.
3. The PP shall finish the revised plan of exit and entry points to the building.
4. The PP shall furnish the layout plan detailing the 15% green belt proposed to be provided.

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

Agenda No: 439 - 17

File No: 10536/2023

Proposed Red Earth quarry lease over an extent of 2.43.0 ha in S.F.No.31/1A & 31/1B(P) Ervadi Village, Keelakkarai Taluk, Ramanathapuram District, Tamil Nadu by Thiru. M. Sahabudeen - For Environmental Clearance. (SIA/TN/MIN/451356/2023, Dated: 06.11.2023)

The proposal is placed in the 439th SEAC meeting held on 10.01.2024. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

The SEAC noted the following:

1. The Project Proponent, Thiru. M. Sahabudeen has applied for Environmental Clearance for the Proposed Red Earth quarry lease over an extent of 2.43.0 ha in S.F.No.31/1A & 31/1B(P) Ervadi Village, Keelakkarai Taluk, Ramanathapuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining


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

The proposal is for mining of Red Earth Quarry and the salient features of the proposal are as follows:

File No	10536/2023		Category	B2	
	451356/2023			1(a)	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	Thiru. M. Sahabudeen, S/o. Madhar Sikkandhar Habib Mohamad, No. 12, Mubarak Street, Sivagangai District - - 630 561.		
2.	Type of quarrying	:	Red Earth Quarry		
3.	S.F Nos. of the quarry site with area break-up	:	31/1A & 31/1B(P)		
4.	Village in which situated	:	Ervadi Village		
5.	Taluk in which situated	:	Keelakkarai Taluk		
6.	District in which situated	:	Ramanathapuram District		
7.	Extent of quarry (in ha.)	:	2.43.0 Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	09°13'00.73"N to 09°13'12.45"N 78°41'05.21"E to 78°41'08.98"E		
9.	Topo Sheet No.	:	58K/12		
10.	Type of mining	:	Open - cast Mechanized Method without drilling and blasting		
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)	:	Earth(m ³) - 48,600	-	

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	Minable Resources m ³ (RoM)	:	Earth(m ³) - 33,632	
	Annual Peak Production in m ³	:	Earth(m ³) - 33,632	
	Maximum Depth in meters	:	2m BGL	-
13.	Depth of water table	:	9m - 14m	
14.	Man Power requirement per day:	:	8 Nos.	
15.	Water requirement: 1. Drinking & Sanitation 2. Dust Suppression 3. Green belt	:	1.5 KLD 0.2 KLD 0.6 KLD 0.7 KLD	
16.	Power requirement	:	5,610 liters of HSD will be utilized for entire project life.	
17.	Precise area communication approved by the Assistant Director, with date	:	Roc.No.25/G&M/2023, Dated: 12.09.2023.	
18.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining	:	Roc.No.25/G&M/2023, Dated: 27.09.2023.	
19.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	:	Roc.No.25/G&M/2023, Dated: 25.10.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	:	05.10.2023.	
21.	Project Cost (excluding EMP cost)	:	Rs. 25,61,000/-	


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22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:		Earth
		:	Max Total RoM in m ³	33,632m ³
		:	Annual Max RoM in m ³	33,632m ³
		:	Max Depth in mtrs	2m BGL
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 12,50,600/- Recurring Cost – Rs. 5,74,010/-	
24.	CER cost (in Rs. Lakhs).	:	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 the annual peak production capacity of not exceeding 33,632m³ of Earth by maintaining the ultimate depth of mining up to 2m BGL for a period of not more than 1 year 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 Project Proponent shall ensure the duration of lease period for the proposed mining is not less than one year as directed by Hon'ble High Court of Madras (Madurai Bench) in its orders dated 12.02.2021 in W.P.(MD)Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019.
2. The PP shall 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 (I) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
3. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.


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4. The PP shall carry out the required number of plantations as committed 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 strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site.
7. As accepted by the Project Proponent the CER cost of Rs. 2 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Middle School, Ervadi Village, Keelakkarai Taluk, Ramanathapuram District before obtaining CTO from TNPCB.
8. In addition to that an amount of Rs. 1 Lakhs shall be contributed towards the conservation measures for Gulf of Mannar Marine National Park in consultation with the concerned DFO and the same shall be included in the EMP.

Agenda No: 439 - 18

File No: 10543/2023

Existing Black Granite quarry lease over an extent of 3.70.0 ha in S.F.Nos. 91/2, 95/1A(Part), 95/1B, 95/2A, 95/2B, 95/2C & 97/1B (Part) Panchapalli Village, Palacode Taluk, Dharmapuri District, Tamil Nadu by Tvl. JR Granites Private Limited - For Environmental Clearance. (SIA/TN/MIN/452595/2023, Dated: 18.11.2023)

The proposal was placed in the 439th SEAC meeting held on 10.01.2024. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

The SEAC noted the following:

1. The Project Proponent, Tvl. JR Granites Private Limited has applied for Environmental Clearance for the Existing Black Granite quarry lease over an extent of 3.70.0 ha in S.F.Nos. S.F. No: 91/2, 95/1A(Part), 95/1B, 95/2A, 95/2B, 95/2C & 97/1B(Part) Panchapalli Village, Palacode Taluk, Dharmapuri 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.


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3. Earlier EC from DEIAA vide Lr.No.02/DEIAA-DPI/EC.No.02/2017 Dated,11.08.2017.
4. MoEF&CC Office Memorandum Dt: 28.04.2023 & 03.11.2023 - The Proposal shall undergo reappraisal process vide MoEF & CC OM dated 28.04.2023 which states that

“...the MoEF&CC has decided that all valid Environmental Clearances issued by the DEIAA shall be re-appraised through the SEAC/SEIAA in compliance to the order of this Tribunal in O.A. No.142 of 2022. In view of the above, it is hereby directed that all concerned SEACs shall reappraise the Environmental Clearances issued by the DEIAAs between 15.01.2016 and 13.09.2018 and all fresh Environmental Clearances in this regard shall be granted only by SEIAAs based on such appraisal...”

During the reappraisal of the project held in the 439th SEAC meeting held on 10.01.2024, based on the presentation and documents furnished by the proponent, SEAC decided to call for additional details as follows:

1. The proponent shall obtain Certified Compliance Report from IRO, MoEF&CC.
2. The proponent shall revise the bench height from 7m to the bench geometry in accordance with the provisions of regulations specified in Reg. 106 of MMR, 1961 for the hard rock mining in the rough stone area and the revised quantity and section shall be approved from the competent authority and the same shall be submitted.
3. The proponent shall submit DFO letter stating the proximity details of Wildlife Sanctuaries, Reserved Forest, etc..
4. The proponent shall submit revised 500m cluster certificate.
5. The proponent shall carry out Green Belt and Fencing and the same shall be submitted in the form of Photographic/Videographic evidence.
6. The proponent shall obtain a letter from AD/Mines stating the site was non-operative and the status on the existence of the dump material & safety zone provisions in the existing quarry.

Hence, the proponent is advised to submit the details within a period of 30 days failing


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which the proposal will be automatically delisted from the PARIVESH Portal.

Agenda No: 439 - 19

File No: 10550/2023

Proposed Gravel quarry lease over an extent of 1.92.5 ha in S.F.Nos. S.F. No: 59/3 Thulukkankulam Village, Kariyapatti Taluk, Virudhunagar District, Tamil Nadu by Thiru. N. Santhanapandian - For Environmental Clearance. (SIA/TN/MIN/418757/2023, Dated: 22.02.2023)

The proposal was placed in the 439th SEAC meeting held on 10.01.2024. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

The SEAC noted the following:

1. The Project Proponent, Thiru. N. Santhanapandian has applied for Environmental Clearance for the Proposed Gravel quarry lease over an extent of 1.92.5 ha in S.F.Nos. S.F. No: 59/3 Thulukkankulam Village, Kariyapatti Taluk, Virudhunagar 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.

The proposal was now placed in the 439th SEAC meeting held on 10.01.2024. During the meeting EIA Coordinator stated that the proponent was absent for the meeting. Hence, the proposal was not taken up for appraisal.

Agenda No: 439 - 20

File No: 10333/2023

Proposed Construction of Residential Building -High Rise Group Development in S.F. No: 15/2A2, 15/2A3, 15/2A4, 15/2B1, 15/2B2, 15/2B3A, 15/2B3B & 16/1 of Moondramkattalai Village, Kundrathur Taluk, Kancheepuram District, Tamil Nadu by M/s. Casagrاند Fresh Private Limited - For Environmental Clearance. (SIA/TN/INFRA2/440707/2023, Dated: 17.08.2023)

The proposal is placed in th 439th SEAC meeting held on 10.01.2024. The project proponent has given a detailed presentation. The details of the project furnished by the


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

1. The Project Proponent, M/s. Casagrand Fresh Private Limited has applied for Environmental Clearance for the Proposed Construction of Residential Building -High Rise Group Development in S.F. No: 15/2A2, 15/2A3, 15/2A4, 15/2B1, 15/2B2, 15/2B3A, 15/2B3B & 16/1 of Moondramkattalai Village, Kundrathur Taluk, Kancheepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item 8(a) "Building & construction projects" of the Schedule to the EIA Notification, 2006.
3. Total Plot area is 31,929.73 Sq.m & the total built-up area of the proposed High-Rise Buildings is 1,33,549.12 Sq.m.
4. Earlier, the proposal was placed in the 415th SEAC meeting held on 12.10.2023. Based on the presentation and documents furnished by the proponent, SEAC decided to call for additional details
 1. The proponent shall submit the details regarding the land use classification from Nanjai land to non-agricultural purpose from the competent authority.
 2. The PP stated that Kundrathur Municipality has given commitment letter for providing drinking water and for giving connection to UGSS that is under implementation. As UGSS takes long time to implement, PP shall produce a commitment letter from the nearby Pallavaram Municipality to accept the surplus treated waste water until the UGSS comes into operation. The cost of transportation shall be borne by the PP.
 3. As committed by the proponent, PP shall submit revised CER details for the activities committed towards aiding blind people in Blind Street, Damian Gate, Peramamur, Maraimalai Nagar.

Upon the receipt of above-mentioned details, further deliberation shall be done. Hence, the proponent is advised to submit the additional documents/information as sought above within a period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.


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S. No.	Query	Reply
1.	The Proponent shall submit the details regarding the land use classification from Nanjai Land to Non-Agricultural purpose from the competent authority.	As per the Master Plan of CMDA (CMA-2026), the survey number 16/1 of Moondramkattalai Village, Kundrathur Taluk, Kancheepuram District has been reclassified from 'Water Body' to 'Commercial Zone'. The Land Use Map and Certificate is enclosed.
2.	The PP stated that Kundrathur Municipality has given letter for providing drinking water and for giving connection to UGSS that is under implementation. As UGSS takes long time to implement. PP shall produce a commitment letter from the nearby Pallavaram Municipality to accept the surplus treated wastewater until UGSS comes into operation. The cost of transportation shall be borne by the PP	Water commitment letter has been obtained from Kundrathur Municipality for the supply of drinking water and connection to the UGSS for the disposal of excess treated wastewater from the proposed residential building project. The acceptance letter for the supply of fresh water and disposal of excess wastewater from Kundrathur Municipality is enclosed. We have approached for the commitment letter from Pallavaram Municipality, and it was informed us that, surplus treated wastewater commitment will be issued on submission of completion certificate from CMDA.


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		<p>Hence, we assure that the commitment letter from Pallavaram Municipality stating the acceptance of excess treated wastewater (337 kLD) during the operation phase of the proposed residential building will be submitted to SEIAA before obtaining the CTO and we will submit the undertaking for transportation in our own cost and same has been included in EMP.</p>
3.	<p>As committed by the Proponent, PP shall submit revised CER details for the activities committed towards aiding blind people in Blind Street, Damain Gare, Peramamur, Maraimalai Nagar.</p>	<p>We assure that, an amount of Rs. 175.0 Lakhs allocated for CER activities will be spend towards aiding blind people in Blind Street, Damain Gate, Peramamur, Maraimalai Nagar. In this regard, a visit has been conducted to analyze the necessary requirement of the people living in Blind Street. The photographs of the same is enclosed. Accordingly, the CER Activities has been formulated towards aiding the people living in Blind Street, Damain Gate, Peramamur, Maraimalai Nagar.</p>

Now, the proposal was again placed in the 439th SEAC meeting held on 10.01.2024. 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 the Proposed Construction of Residential Building -High Rise Group Development in S. Nos 15/2A2, 15/2A3, 15/2A4, 15/2B1, 15/2B2, 15/2B3A, 15/2B3B & 16/1 of Moondramkattalai Village.


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Kundrathur Taluk, Kancheepuram District, Tamil Nadu by the PP M/s. Casagrand Fresh Private Limited

2. M/s Ecotech Labs Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is **31,929.73 m²** and built-up area is **1,33,549.12 m²** respectively.
4. Maximum number of floors will be 21 floors. The project comprises of extended combined basement of 3 blocks consists of Block 1: Ground Floor + 21 Floors (342 Dwelling Units, Height -65.35 m), Block 2: Ground Floor + 21 Floors (169 Dwelling Units, Height – 65.35 m) with Amenities (Open Swimming Pool on the Ground Floor Level), Block 3: Ground Floor + 21 Floors (342 Dwelling Units, Height - 65.35m). The maximum height of the building will be 65.35 m.
5. Total Saleable DU's (dwelling units) is **853 dwelling units**.
6. Salient features of the project as submitted by the project proponent:

Name and Address of the PP		Name of the Consultant
M/s Sree Daksha Property Developers (India) Pvt. Ltd. Mr. M. Ganesh Public Relations Officer M/s Sree Daksha Property Developers (India) Pvt. Ltd. No: 1, Gandhi Layout, Maruthamalai Road, Vadavalli, Coimbatore - 641046		M/s. Eco Tech Labs Pvt. Ltd
A.Site Location Details		
1.	Location	Moondramkattalai Village. Kundrathur Taluk, Kancheepuram District, Tamil Nadu
2.	Latitude & Longitude	13° 0'19.02"N & 80° 6'14.81"E


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3.	Survey Nos	S.Nos. 15/2A2, 15/2A3, 15/2A4, 15/2B1, 15/2B2, 15/2B3A, 15/2B3B & 16/1
4.	Area in Hectares	3.192973
5.	Ownership Details	M/s Casagrand Fresh Private Limited
6.	Any legal Disputes	Nil
7.	Waterbodies/Rivers/Canals	<ul style="list-style-type: none"> • Chembambakkam Lake (2.15 km, W) • Adyar River (2.63 km, SE) • Porur Lake (4.47 km, NE) • Thiruneermalai Lake (5.53 km, SE) • Cooum River (6.54 km, NE)
8.	Vulnerability to Inundation	Nil
9.	Protected area nearby (Wildlife Protection Act)	<ul style="list-style-type: none"> • Pallavaram Forest (6.80 km, SE) • Nanmangalam RF (11.18 km, SE) • Guindy National Park (12.16 km, SE) • Pallikaranai Marshland (14.45 km SE)
10.	Previous EC/History in SEIAA	Nil

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	31,929.73	SQMT
2	Proposed Built Up Area	1,33,549.12	SQMT

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3	Total no of Saleable DU's/Villas	853	No.
4	Max Height - (Height of tallest block)	65.35	M
5	No of Building Blocks (Residential + Community facilities)	3 blocks	
6	Max No of Floors	21	No.
7	Expected Population (XXX Residential + XXXX Floating)	4901 residential + 490 visitors + 49 maintenance staffs	No.
8	Total Cost of Project	246.59	CR
9	Project Activity:	Residential	
AREAS			
10	Permissible Ground Coverage Area (xx%)	NA	SQMT
11	Proposed Ground Coverage Area (xx%)	6357.15	SQMT
12	Permissible FSI Area (xxx)	103,771.6225	SQMT
13	Proposed FSI Area	108480.98 (Premium FSI)	SQMT
14	Other Non FSI Areas - including basement area etc.	25,068.14	SQMT
15	Proposed Total Built Up Area	133549.12	SQMT
WATER			
16	Total Water Requirement	706	KLD
17	Fresh water requirement	447	KLD
18	Treated Water Requirement	259	KLD
19	Wastewater Generation	627	KLD
20	Proposed Capacity of STP	640	KLD
21	Treated Water Available for Reuse	596	KLD


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22	Treated Water Recycled	259	KLD	
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	337	KLD	
RAINWATER HARVESTING				
24	Rainwater Harvesting - Recharge Pits	30 Numbers	-	
25	Rainwater Harvesting Sump Capacity	120	M ³	
PARKING				
25		Four-wheeler	Two-Wheeler	
	Total Parking Required as / Building Bye Laws	589	586	ECS
26	Proposed Total Parking	997	587	ECS
27	Parking in Basements	783	425	ECS
GREEN AREA				
28	Proposed Green Area (Minimum 15.0% of plot area)	6008.31	SQMT	
	Total area	31929.73	sqm	
	Existing trees on plot	-	-	
	Number of trees to be planted	420	nos	
	Number of trees to be transplanted/cut	-	-	
SOLID WASTE MANAGEMENT				
29	Total Solid Waste Generation	3049	TPD	
30	Organic waste	1220	TPD	
31	Mode of Treatment & Disposal	Will be treated in Organic Waste	TPD	

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		Converter and used as manure for gardening.	
32	Quantity of Sludge Generated from STP & Disposal	33	KG/DAY
33	Quantity of E-Waste Generation & Disposal	-	KG/DAY
34	Quantity of Hazardous waste Generation & Disposal	-	LPD
POWER / GREEN POWER			
34	Total Power Requirement	8853.92	KVA
35	DG set backup	1 No. of 320 kVA 1 No. of 200 kVA 2 Nos of 380 kVA	KVA
36	No of DG Sets	4	No.
37	Solar Panels – Roof Coverage	50%	%
38	Hot Water Requirement	13.6 KLD	
	Of which met by Solar Panels		

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's	853	2 BHK – 5/ Dwelling unit 3 BHK – 6/ Dwelling unit 4 BHK – 7/ Dwelling unit	4901
Total			
Non Residential			


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CLUB house (Employees etc.)	Area	-	-								
Club											
Commercial											
Facility Management Staff	-	-	49								
Total											
Visitors											
Residential	490	xx% of Residential Population	490								
Club/Communit y Hall	-	xx% of Residential Population	-								
Commercial	-	-	-								
Total Visitors											
Total Population			5440								
EMP Cost		Construction phase- Rs.32.0 lakhs Operation Phase Capital cost- Rs.324.97 lakhs Operation Phase Recurring cost- Rs.92.24 lakhs									
CER Cost		60 lakhs									
Details of CER Activities		<table border="1"> <thead> <tr> <th>S. No.</th> <th>CER Activity</th> <th>Capital cost Allocation</th> <th>Action Plan</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	S. No.	CER Activity	Capital cost Allocation	Action Plan					
S. No.	CER Activity	Capital cost Allocation	Action Plan								


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	(in Lakhs)	
CER Activities towards Blind People in Blind Street, Damain Gate, Peramamur, Maraimalai Nagar		
Provision of infrastructure, necessary facilities and equipments for Health Center	247.0	Within 12 months from the commencement of Construction
Construction of House for 4 Families		
Provision of educational essentials for students (20 numbers of School Students & 10 numbers of College Students)		
Provision of proper toilet facilities		
Maintenance of Drinking water facility, Road and drainage system		
Provision of necessary essential need of the community (food, groceries, dress etc.)		
Provision of infrastructure and necessary facilities for promoting the self-employment (Wire		


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		Chair Production) opportunities	
		Total Cost Allocation	247.0

Depth of excavation of soil	3.5 M
Quantity of topsoil	22,250.025 M ³
Quantity of gravel or clay	-
Disposal of gravel or clay	-

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 submit commitment letter from the competent authority for fresh water supply and disposal of excess treated waste water before obtaining CTE from TNPCB as committed in the affidavit dated 08.01.2024.
2. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
3. The proponent shall utilize the excavated topsoil for landscaping in the OSR & Green Belt areas of this proposed project.
4. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
5. 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


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- 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.
6. The 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.
 7. The Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
 8. 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.
 9. The project proponent should develop green belt in the proposed project as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
 10. Project proponent should invest the CER amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
 11. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF&CC (IRO/SZ) /Director of Environment and other concerning authority regularly.
 12. 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.
 13. 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.
 14. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

Agenda No: 439 - 21

(File No.10544/2023)


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Proposed Gravel quarry lease over an extent 2.83.5Ha at S.F.No. 248/1B2 of Vedhiyarendal (Pulikuthi) Village, Manamadurai Taluk, Sivagangai District, Tamil Nadu by Thiru. M. Subbiremanian - For Environmental Clearance.

(SIA/TN/MIN/452012/2023 dated:10.11.2023)

The proposal was placed for appraisal in the 439th Meeting of SEAC held on 10.01.2024. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru. M. Subbiremanian** has applied for Environmental Clearance for the Proposed Gravel quarry lease over an extent 2.83.5Ha at S.F.No. 248/1B2 of Vedhiyarendal (Pulikuthi) Village, Manamadurai Taluk, Sivagangai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The proponent submitted a soil test report obtained from Government College of Engineering, Dharmapuri vide Lr. No.GCE/DPI/CIVIL/SOIL/2023C-200 dated.08.11.2023. According to the report, the maximum sand content in the soil sample is 18.70%.
4. Further, Deputy Director, Dept. of G&M, Sivagangai District vide Roc.No.318/Mines/2022 dated.30.10.2023 has stated as follows:
"...there are no rivers, reservoirs, canals and protected eco-sensitive zones present within 1km radius from the subject area..."
5. The other salient features of the proposal are as follows:

File No	10544/2023	Category	B2
	452012/2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. M. Subbiremanian, S/o. Muthuvel, No.10/373, Padel Street, Paramakudi.


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		Ramanathapuram District – 623 707.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Gravel Quarry
3.	S.F Nos. of the quarry site with area break-up	:	248/1B2
4.	Village in which situated	:	Vedhiyarendal (Pulikuthi)
5.	Taluk in which situated	:	Manamadurai
6.	District in which situated	:	Sivagangai
7.	Extent of quarry (in ha.)	:	2.83.5Ha
8.	Latitude & Longitude of all corners of the quarry site	:	09°37'03.51"N to 09°37'10.23"N 78°29'33.17"E to 78°29'40.80"E
9.	Topo Sheet No.	:	58 K/06
10.	Type of mining	:	Opencast method of shallow 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)		Gravel
			55,748m ³
	Minable Resources m ³ (RoM)		Gravel
			45,540m ³
	Annual Peak Production in m ³		Gravel
		15,180m ³	
	Maximum Depth in meters	:	2m BGL
13.	Depth of water table	:	44m - 49m
14.	Man Power requirement per day:	:	10 Nos.
15.	Water requirement:	:	1.0 KLD


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	7. Drinking & Sanitation 8. Dust suppression 9. Green belt	0.2 KLD 0.5 KLD 0.3 KLD	
16.	Power requirement	: 7,590 Liters of HSD will be utilized	
17.	Precise area communication approved by the Deputy Director, Dept. of G&M	: Rc.No.318/Mines/2022, dated:11.10.2023.	
18.	Mining Plan approved by Deputy Director, Dept. of Geology & Mining.	: Rc.No.318/Mines/2022, dated:26.10.2023	
19.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	: Rc.No.318/Mines/2022, dated:26.10.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated:28.10.2023.	
21.	Project Cost (excluding EMP cost)	: Rs. 29,46,000/-	
22.	EC Recommendation	: Validity	3 years subject to the following upper limits
			Gravel
		: Max Total RoM in m ³	45,540 m ³
		: Annual Max RoM in m ³	15,180m ³
		: Max Depth in mtrs	2m from the existing ground profile


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23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 14,22,700 /- Recurring Cost – Rs. 5,96,970/-
24.	CER cost (in Rs. Lakhs).	:	Rs. 2,00,000

Based on the presentation and details furnished by the project proponent, SEAC decided to recommend the proposal for grant of Environmental Clearance for the annual peak production quantity of 15,180m³ of gravel for an ultimate depth of 2m from the existing ground profile 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 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 not carry out the drilling & blasting operations in the proposed quarry during the life of the lease.
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 install a temporary Rest Shelter and Bio-toilet for the persons employed in the mine before obtaining the CTO from the TNPCB.
5. The PP shall deploy a dedicated water sprinkler for controlling the dust along the public road.
6. 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.
7. As accepted by the Project proponent, the CER cost is Rs.2 Lakhs and the amount shall be spent for the committed activities towards Government High School, Vedyerantal, Manamadurai Circle, Sivagangai District before obtaining CTO from TNPCB.

Agenda No: 439 - 22

(File No.9583/2023)


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Proposed Expansion of Commercial Tower in the Existing Mall at T.S.Nos. 5/2, 5/3, 6/2 & 6/3 of Velachery Village, Guindy-Mambalam Taluk, Chennai District, Tamil Nadu by M/s. Classic Mall Development Company Limited, M/s. Classic Housing Projects Pvt. Ltd & M/s. Starboards Hotel Private Ltd - For Environmental Clearance.

(SIA/TN/INFRA2/446179/2023, dated 28.09.2023)

The proposal was placed for appraisal in the 439th Meeting of SEAC held on 10.01.2024. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponents, M/s. Classic Mall Development Company Limited, M/s. Classic Housing Projects Pvt. Ltd & M/s. Starboards Hotel Private Ltd has applied for Environmental Clearance for the Proposed Expansion of Commercial Tower in the Existing Mall at T.S.Nos. 5/2, 5/3, 6/2 & 6/3 of Velachery Village, Guindy-Mambalam Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B" of item 8(b) "Townships and area developments" of the Schedule to the EIA Notification, 2006.
3. M/s. Ecotech Labs Private Limited is the EIA Consultant for the project.
4. Earlier, EC was accorded to the project proponent vide Lr.No.SEIAA-TN/F.No.7415/EC/8(b)/781/2021 dated.23.08.2021.
5. The earlier EC was accorded for a total built-up area of 3,12,044 sq.m.
6. Now, the proponent has submitted an application for Environmental Clearance for a built-up area of 3,19,005.28. The increase in built-up area is due to the proposed expansion in the already approved Tower D from a built-up area of 39,977 Sq.m to 46,938.28 Sq.m.
7. Now, the total plot area of the project is 67,866 sqm and built-up area is 3,19,005.28 sq.m respectively.
8. ToR was issued to the proponent vide Lr.No.SEIAA-TN/F.No.9583/SEAC/8(b) /ToR-1476/2023 dated.05.06.2023.
9. The proponent submitted EIA Report in the PARIVESH Portal on 28.09.2023.
10. Earlier, the proposal was placed in the 418th SEAC meeting held on 19.10.2023.

Based on the presentation and details furnished by the project proponent, the


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Committee decided to call for the following additional details from the project proponent to decide further on the proposal:

- i) The proponent shall explore the possibilities of increasing the greenbelt from 8.7% to 15% as indicated in the ToR dated.05.06.2023.
- ii) The proponent shall furnish the revised water balance chart.
- iii) The proponent shall furnish the details of CER activities carried out as indicated in the earlier ECs dated.20.09.2010, 09.10.2017 & 23.08.2021 in tabular form. Non-compliances, if any, should be indicated.
- iv) The proponent shall explore the possibilities of providing plants in pots in the parking areas provided in the basement.
- v) The proponent shall keep Environment Awareness Boards within the mall to create awareness to the public.
- vi) The proponent shall take necessary steps to make the entire mall premises plastic free zone and shall keep 'Plastic Free Mall' Boards within the premises.
- vii) As a part of CER activity, the proponent shall take steps to provide a dedicated hyacinth removal machine for the cleaning of Velachery Eri situated near the proposed project site and maintain the same, in consultation with GCC.
- viii) The proponent shall explore the possibilities of providing Manjappai to customers while they shop at mall stores, either for free or by charging appropriate amounts.
- ix) The proponent shall renovate the existing STP and shall furnish photographic proofs for the same.

11. The proponent vide letter dated. 14.12.2023, submitted a reply to the details sought by SEAC in its 418th meeting.

12. In view of the above, the proposal is again placed in this 439th SEAC meeting.

13. The other salient features of the project are as follows:

PROJECT SUMMARY					
S. No	Description	Existing EC		After Proposed Expansion	
		Total Quantity	Unit	Total Quantity	Unit


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GENERAL					
1	Plot Area	67,866	SQMT	67,866	SQMT
2	Built Up Area	3,12,044	SQMT	3,19,005.28	SQMT
3	Total no. of Saleable DU's/Villas	161	No.	161	No.
4	Max Height	61.5	M	61.5	M
6	Max No. of Floors	14	No.	14	No.
7	Expected Population	4000	No.	621	No.
8	Total Cost of Project	412.05	CR	424.55	CR
AREAS					
10	Permissible Ground Coverage	NA	SQMT	NA	SQMT
11	Proposed Ground Coverage Area	33731.56 (49.7%)	SQMT	33731.56 (49.7%)	SQMT
12	Permissible FSI Area	220564.5	SQMT	220564.5	SQMT
13	Proposed FSI Area	218326.54	SQMT	224157.58 (Premium FSI)	SQMT
15	Total Built Up Area	312044	SQMT	319005.28	SQMT
WATER					
16	Total Water Requirement	1468	KLD	1410	KLD
17	Fresh water requirement	557	KLD	571	KLD
18	Treated Water Requirement	911	KLD	839	KLD
19	Wastewater Generation	959	KLD	988	KLD
20	Capacity of STP	1050 (750 KLD+300KLD)	KLD	1050 (750 KLD+300KLD)	KLD
21	Treated Water	911	KLD	939	KLD


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	Available for Reuse				
22	Treated Water Recycled	911	KLD	839	KLD
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	-	KLD	100	KLD
RAINWATER HARVESTING					
24	Rainwater Harvesting - Recharge Pits	121	No.	121	No.
25	Rainwater Harvesting Sump Capacity	550	m ³	550	m ³
PARKING					
25	Total Parking Required as / Building Bye Laws	Cars - 2532 2-wheelers - 3009	ECS	Cars - 2565 2-wheelers - 3236	ECS
26	Proposed Total Parking	Cars - 2532 2-wheelers - 3009	ECS	Cars - 2785 2-wheelers - 3314	ECS
27	Parking in Basements	Cars - 2532 2-wheelers - 3009	ECS	Cars - 2785 2-wheelers - 3314	ECS
GREEN AREA					
28	Proposed Green Area	5881 (8.7%)	SQMT	5881 (8.7%)	SQMT
	Total area	67866	SQMT	67866	SQMT
	Existing trees on plot	700	Nos.	700	Nos.
	Number of trees to be planted/transplanted	Nil	Nos.	Nil	Nos.
SOLID WASTE MANAGEMENT					


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29	Total Solid Waste Generation	7.350	TPD	7.487	TPD
30	Organic waste	3.960	TPD	4.033	TPD
31	Mode of Treatment & Disposal	Will be treated in Organic Waste Converter and used as manure for gardening.	TPD	Will be treated in Organic Waste Converter and used as manure for gardening.	TPD
32	Quantity of Sludge Generated from STP & Disposal	404	KG/DA Y	420	KG/DAY
33	Quantity of E-Waste Generation & Disposal	-	KG/DA Y	-	KG/DAY
34	Quantity of Hazardous waste Generation & Disposal	-	LPD	-	LPD
POWER / GREEN POWER					
34	Total Power Requirement	15000	KVA	15000	KVA
35	DG set backup	8 Nos. of 1500 KVA, 2 Nos. of 1250 KVA, 2 Nos. of 1010 KVA, 1 Nos. of 750 KVA, 2 Nos. of 2000 KVA, 1 Nos. of 1500 KVA	KVA	8 Nos. of 1500 KVA, 2 Nos. of 1250 KVA, 2 Nos. of 1010 KVA, 1 Nos. of 750 KVA, 2 Nos. of 2000 KVA, 1 Nos. of 1500 KVA	KVA
36	No of DG Sets	16	No.	16	No.
37	Solar Panels – Roof Coverage	20	%	50	%


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38	Hot Water requirement met by Solar Panels	2.4	KLD	2.4	KLD
Details of POPULATION					
		TOTAL POPULATION (Existing EC) (Nos.)		TOTAL POPULATION (After Proposed Expansion Activity) (Nos.)	
Residential					
Total Saleable Du's		161		161	
POP/DU		6 persons/dwelling unit		6 persons/dwelling unit	
TOTAL Residential POPULATION		966		966	
Non-Residential					
CLUB house (Employees etc.)		-		-	
Club		-		-	
Commercial		-		-	
Facility Management Staff		2554		2616	
Total Non- Residential		2554		2616	
Visitors					
Residential		107 (visitors+ maintenance staffs)		107 (visitors+ maintenance staffs)	
Club/Community Hall		-		-	
Commercial		25536		26157	
Total Visitors		-		-	
Total Population (Residential + Non-Residential + Visitor)		29163		29846	
EMP Cost		<p style="text-align: center;"><u>Construction Phase:</u></p> <p>i) Capital Cost – Rs.12 Lakhs</p> <p>ii) O & M Cost per annum – Rs.6 Lakhs</p> <p style="text-align: center;"><u>Operational Phase:</u></p>			


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	i) Capital Cost – Rs.909 Lakhs ii) Operational Cost per annum – Rs.61.79 Lakhs
CER Cost	Rs. 60 Lakhs (for the proposed expansion) towards beautification of The Voluntary Health Services, Adyar in consultation with Auroville Foundation. The activity should be completed within 6 months from the date of issue of EC.

RECOMMENDATION OF THE COMMITTEE

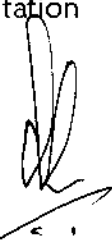
The Committee discussed the matter and recommended the proposal for grant of environmental clearance subject to the standard conditions as per the Annexure II of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

Additional Conditions:

1. The proponent shall provide free Manjappais (To be procured from the GoTN) to the mall customers as a part of environmental awareness.
2. The proponent should plant a minimum of 500 trees in and around Velachery.
3. The proponent shall provide plants in pots in the parking areas provided in the basement.
4. The proponent shall keep Environment Awareness Boards within the mall to create awareness to the public.
5. The proponent shall take necessary steps to make the entire mall premises plastic free zone and shall keep 'Plastic Free Mall' Boards within the premises.
6. The proponent shall provide a dedicated hyacinth removal machine for the cleaning of Velachery Eri situated near the proposed project site and maintain the same, in consultation with GCC.
7. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
8. 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


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- 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.
9. 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.
 10. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
 11. The project proponent should develop green belt in the project area as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
 12. Project proponent should invest the CSR/CER amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
 13. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF&CC/Director of Environment and other concerning authority regularly.
 14. 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.
 15. 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.
 16. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.
 17. As agreed by the project proponent, the CER cost is Rs.60 Lakhs (for the proposed expansion) and the amount shall be utilized for the towards


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beautification of The Voluntary Health Services, Adyar in consultation with Auroville Foundation.

Agenda No: 439-23

(File No: 10531/2023)

Proposed Gravel quarry lease over an extent of 1.68.5Ha at SF.Nos. 897/1, 897/3 & 897/4 of Arasiramani Bit-II Village, Sankari Taluk, Salem District, Tamil Nadu by Thiru.K.M.Murugan - For Environmental Clearance. (SIA/TN/MIN/451566/2023, Dated:07.11.2023)

The proposal was placed in 439th meeting of SEAC held on 10.01.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.M.Murugan has applied for Environmental Clearance for the Proposed Gravel quarry lease over an extent of 1.68.5Ha at SF.Nos. 897/1, 897/3 & 897/4 of Arasiramani Bit-II Village, Sankari Taluk, Salem District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and documents furnished by the project proponent, SEAC decided to direct the PP to submit the following additional details:

- a. Since Village starts at 50m and school is located at 230m, the PP was requested to submit revised mining plan from competent authority.

Agenda No: 439-24

(File No: 10538/2023)

Proposed Rough stone & Gravel quarry lease over an extent of 4.73.2Ha at SF.Nos. 749/2(P) & 750(P) of Vadakku Ariyanayagipuram Part-II Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu by Tvl.STK Ventures Private Limited- For Environmental Clearance. (SIA/TN/MIN/451308/2023, Dated:04.11.2023)

The proposal was placed in 439th meeting of SEAC held on 10.01.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tvl.STK Ventures Private Limited has applied for


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Environmental Clearance for the Proposed Rough stone & Gravel quarry lease over an extent of 4.73.2Ha at SF.Nos. 749/2(P) & 750(P) of Vadakku Ariyanayagipuram Part-II Village, Cheranmahadevi Taluk, Tirunelveli 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.

File No	10538/2023		Category	B2
	SIA/TN/MIN/451308/2023, Dated: 04.11.2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Tvl. STK Ventures Private Limited Director Thiru. S. Jaideep Sundaresh, S/o. T.K. Sundaresan, D.No.1/193, M.S. University Nagar, Thirupanikarisalkulam Village, Tirunelveli Taluk & District-627 012	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone & Gravel quarry	
3.	S.F Nos. of the quarry site with area break-up	:	749/2(P) & 750(P)	
4.	Village in which situated	:	Vadakku Ariyanayagipuram Part-II	
5.	Taluk in which situated	:	Cheranmahadevi	
6.	District in which situated	:	Tirunelveli	
7.	Extent of quarry (in ha.)	:	4.73.2Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	08°46'07.80"N to 08°46'16.60"N 77°33'50.60"E to 77°33'59.20"E	
9.	Topo Sheet No.	:	58-H/9	
10.	Type of mining	:	Opencast Semi-mechanized Mining	
11.	Life of Project	:	5 Years	


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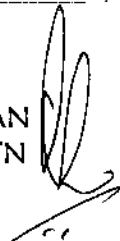
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	Lease Period	5 Years	
	Mining Plan Period	: 5 Years	
12.	Mining Plan Details	: As per approved Mining Plan	
		Rough stone	Gravel
	Geological Resources m ³	: 21,15,000m ³	2,35,000m ³
	Minal Resources m ³	: 9,99,255m ³	1,99,215m ³
	Annual Peak Production in m ³	: 2,02,585m ³	72,675m ³
	Maximum Depth in meters	: 50m BGL	
13.	Depth of water table	: 60m BGL	
14.	Man Power requirement per day:	: 20 Employees	
15.	Water requirement:	: 2.5 KLD	
	1. Drinking water & utilized water	0.7 KLD	
	2. Dust suppression	1.0 KLD	
	3. Green belt	0.8 KLD	
16.	Power requirement	: TNEB	
17.	Precise area communication approved by the Joint Director/ Assistant Director (i/c), Department of G&M.	: Rc.No.M2/37164/2022, Dated:27.09.2023	
18.	Mining Plan approved by Joint Director/ Assistant Director (i/c), Department of G&M.	: Rc.No.M2/37164/2022, Dated:04.10.2023	
19.	500m Cluster Letter approved by the Joint Director/ Assistant Director (i/c), Department of G&M.	: Rc.No.M2/37164/2022, Dated:05.10.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated:04.10.2023	


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21.	Project Cost (excluding EMP cost)	:	Rs.3,27,13,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
		:	Max Total in m ³	9,99,255 m ³	1,99,215 m ³
		:	Annual Max in m ³	2,02,585 m ³	72,675 m ³
		:	Ultimate Depth in mtrs	50m BGL	
23.	EMP cost (in Rs. Lakh).	:	Rs.257 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 2,02,585m³ of Rough stone and 72,675m³ of Gravel by maintaining the ultimate depth of mining up to 50m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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


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3. The PP shall appoint a First Class/Second Class Mine Manager for managing the quarrying operations before the execution of lease and a copy of the appointment shall be sent to the Director of Mines Safety, Chennai Region along with Notice of Opening of the Mine under the provisions of MMR 1961.
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. The PP shall not carry out the deep hole larger diameter blasting without prior approval from the DMS, Chennai Region and no secondary blasting of oversize fragments /boulders shall be carried out during the life of the lease period.
6. **Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations with prior permission obtained 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 proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.**
7. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations 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.
8. Since odai and tank are located within a radial distance of 500 m, as a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation


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on the ground water level present in the core zone within a period of 2 years from the commencement of quarrying operation, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NEERI/Chennai, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Dept of Geology, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

9. 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 during the 3rd year (or) when the depth of quarry touches 30 m with prior permission obtained from the DMS/Chennai Region. for evaluating the slope stabilization & protective measures at the ultimate pit limits, 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.
10. Since the mine is planned to adopt highly mechanized system producing more quantity involving more fleets of trucks in a cluster environment, the PP shall carry out the transportation studies within a period of six months from the commencement of quarrying operations, to optimize the transportation system as a apart of environmental management in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Division of Transportation Engineering, CEG Campus, Anna University Chennai. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM


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and DMS, Chennai as a part of Environmental Compliance without any deviation

11. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, V.A.Ilandhaikulam Village School before obtaining CTO from TNPCB.

Agenda No: 439-25

(File No: 10300/2023)

Proposed Rough stone & Gravel quarry lease over an extent of 3.06.0Ha at SF.No. 753/B2 (Part) & 753/B3 (Part) of Thennilai South Village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru.K.P. Krishnasamy - For Environmental Clearance.

(SIA/TN/MIN/439367/2023, Dated: 06.08.2023)

Earlier the proposal was placed in 414th meeting of SEAC held on 06.10.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted the following:

1. The Project Proponent, Thiru. K. P. Krishnasamy has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 3.06.0Ha at SF.No. 753/B2 (Part) & 753/B3 (Part) of Thennilai South 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. Earlier EC was obtained by PP vide Lr.No.SEIAA-TN/F.No.3717/EC/1(a)/2847/2015 dated 15.02.2016.
4. ToR Issued vide - Lr No.SEIAA-TN/F.No.10300/2023/SEAC/1(a)ToR/Violation-1594/2023 Dated:30.10.2023.

Based on the presentation and documents furnished by the project proponent, SEAC noted that the earlier PP have obtained EC for a depth of 8m, whereas the PP mined out a maximum depth of 15m which was confirmed with DD Mines, "Pit letter" vide Rc.No.500/Mines/2022 dated 03.10/2023. Hence SEAC decided to issue ToR under violation category.


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The subject was placed in the 666th Authority meeting held on 30.10.2023. The Authority noted that the subject was appraised in the 414th SEAC meeting held on 06.10.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (TOR) under Violation category, subject to the specific TORs stated therein, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants. The grant of Terms of Reference (TOR) under Violation category does not entail EC which is subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.

After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) under violation category for undertaking EIA study followed by the EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants subject to the conditions as recommended by SEAC & normal / Standard conditions in addition to certain conditions.

Accordingly, ToR was granted under violation category vide Lr No. SEIAA-TN/F.No.10300/2023/SEAC/1(a)ToR/Violation-1594/2023 Dated:30.10.2023.

Now the Project Proponent vide letter dated 08.12.2023 requests to consider Environmental Clearance in 'B2 category' stating the following,

"I had applied for Environmental Clearance for the rough stone and gravel quarry lease S.F.No: 753/B2 (Part) & 753/B3 (Part), Over an extent of 3.06.0Hectares, Thennilai South Village, Pugalur Taluk, Karur District, Tamil Nadu State. The proposal was placed in 414th SEAC-TN, meeting held on 06.10.2023. The authority mentioned in 414 SEAC minutes ToR under violation Category. In that regarding, I discussed with the Deputy Director, Department of Geology and Mining, karur District about the issuance of violation TOR. He gave the letter regarding the previous lease and lessee details. I am unaware about the previous environment conditions such as depth, quantity etc. Previous


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owner of the land told that there is no encumbrance in the land. So, I purchased the land. I didn't quarry in the lease area. The Department of Geology and Mining took action against the previous lessee about the excess in depth as mentioned in EC. Consider my case again for appraisal".

Now the proposal was placed in 439th meeting of SEAC held on 10.01.2024. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following additional details.

1. The PP shall submit Chronology of ownership including bulk permit details, year of purchase etc., with appropriate mining plan.
2. The PP shall furnish a letter obtained from the concerned AD (Mines) and it shall include the following:
 - (i) Existence of boundary pillars with its coordinates.
 - (ii) Original pit dimension
 - (iii) Quantity achieved Vs EC Approved Quantity
 - (iv) Balance Quantity as per Mineable Reserve calculated.
 - (v) Mined out Depth as on date Vs EC Permitted depth
 - (vi) Details of illegal/illicit mining
 - (vii) Violation in the quarry during the past working.
 - (viii) Quantity of material mined out outside the mine lease area
 - (ix) Condition of Safety zone/benches existing currently.


Hence, the proponent is advised to submit the additional documents/ information as sought above within a period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.

Agenda No: 439-26

(File No: 10380/2023)

Proposed additional Construction of Residential Building to the existing building at T. S. No. 1 part, Block No.13 & 14 of Mambalam Village, Kotturpuram Main Road, Kotturpuram, Chennai by M/s. Tamil Nadu Urban Habitat Development Board- For Environmental Clearance (SIA/TN/INFRA2/441065/2023 dated: 23.08.2023).

The proposal was earlier placed in the 416th Meeting of SEAC held on 13.10.2023. The details of the project furnished by the proponent are available in the website


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(parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Tamil Nadu Urban Habitat Development Board has applied for Environmental Clearance for the Proposed additional Construction of Residential Building to the existing building in T.S.No. 1 part, Block No.13 & 14 of Mambalam Village, Kotturpuram Main Road, Kotturpuram, Chennai, 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.
3. The project comprises of additional construction of 21 blocks out of which, 9 blocks of Type-I: Stilt floor + 6 floors with 648 Dwelling units, 12 blocks of Type II: Stilt floor + 6 floors with 1152 Dwelling units & (Totally 1800 Dwelling units) to the existing Tenements of 3 blocks of Stilt + 4 floors 128 Dwelling units (Total no. of 1928 Dwelling units).
4. Earlier the proposal was placed in 416th SEAC meeting held on 23.08.2023. Based on the documents furnished and the presentation made by the proponent, the SEAC, after detailed deliberations, decided to obtain the following details.
 1. The PP shall obtain CRZ Recommendation from the Competent Authority since the project site is very close to the Adyar River, about 70m away.
 2. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body /Metro Water/TWAD.
 3. The proponent shall furnish NOC for flood inundation point of view obtained from the Competent Authority/PWD since the site is very close to Adyar River.
 4. The PP shall furnish structural stability certificate.

On receipt of the above, the proposal was again placed in the 439th Meeting of SEAC held on 10.01.2024. During the meeting, the PP made the presentation as follows

S. No	Query raised by the Committee	Reply submitted by the PP
1.	The PP shall obtain CRZ Recommendation from the Competent Authority since the	Earlier the proposed project site falls under CRZII Zone. Now, we had revised the proposal and the proposed site does


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	project site is very close to the Adyar River, about 70m away.	not fall under CRZ and the revised proposal submitted on 29.12.2023 and request SEAC & SEIAA to consider revised proposal and grant Environmental clearance.
2.	The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body /Metro Water/TWAD.	The source of water for the proposed project is CMWSSB. > The area comes under zone 13 of Greater Chennai Corporation. > The capital amount for establishment of water supply and sewerage connection system to CMWSSB will be paid before issuance of planning permit. > We will submit the copy of payment to Metro water before obtaining CTE from Tamil Nadu pollution control board.
3.	The proponent shall furnish NOC for flood inundation point of view obtained from the Competent Authority/PWD since the site is very close to Adyar River.	We requested NOC from PWD for flood Inundation & we will submit PWD NoC before obtaining CTE.
4.	The PP shall furnish structural stability certificate.	The form certificate for Structural stability report submitted to CMDA and the same is Submitted.

During the presentation the Committee further noted the following from the reply submitted by the PP.

1. As per earlier proposal vide Online application No. SIA/TN/INFRA2/441065/2023 dated: 23.08.2023, the total land area including CRZ area - Total land area available is 47467.11 Sqm (CRZ land area - 5375.23 Sqm and Non CRZ land area - 42091.88 Sqm).


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2. Subsequently, PP made a request during the presentation to consider the revised application, incorporating the changes, in Parivesh Portal vide Online application No. SIA/TN/INFRA2/458242/2024 dated: 10.01.2024.
3. As per the revised proposal the land area available excluding the CRZ area is 41026.19 Sqm and the development is proposed in this land area only.

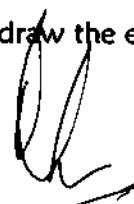
In the view of the above facts, committee decided to accept the proponent's request to consider the online proposal number vide No. SIA/TN/INFRA2/458242/2024 dated: 10.01.2024, where details have been modified such that CRZ area has been excluded and further change in the built-up area, etc., as follows: -

S. No	Description	Earlier proposal vide SIA/TN/INFRA2/441065/2023 dated: 23.08.2023.	Revised Proposal vide SIA/TN/INFRA2/458242/2024 dated: 10.01.2024.
1.	Total Land area	47467.11 Sqm (5375.23 CRZ area + Non CRZ land area - 42091.88 Sqm)	Non CRZ land area - 41026.19 Sqm
2.	Survey Nos.	T. S. No. 1 part, Block No.13 & 14 of Mambalam Village, Kotturpuram Main Road, Kotturpuram, Chennai, Tamil Nadu	T. S. No. 1 part, Block No. 14 of Mambalam Village, Kotturpuram Main Road, Kotturpuram, Chennai, Tamil Nadu
2.	CRZ applicability	Yes	No
3.	Built up area	81110.36 Sq.m	82091.98 Sq.m
4.	Total No. of Dwelling units	1928	1928

Hence, committee decided to consider the proposal bearing online number vide SIA/TN/INFRA2/458242/2024 dated: 10.01.2024 for consideration of grant of EC. Further, Committee decided to accept the proponent's request to withdraw the earlier


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proposal submitted vide SIA/TN/INFRA2/441065/2023 dated: 23.08.2023 and hence SEIAA may take further action as per the procedure laid down by MoEF&CC.

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 additional Construction of Residential Building to the existing building in T.S.No. 1 part, Block No. 14 of Mambalam Village, Kotturpuram Main Road, Kotturpuram, Chennai, within the limits of Greater Chennai Corporation, Mambalam Taluk, Chennai District.
2. M/s Ecotech Labs Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is 41026.19 Sqm and built-up area is 82091.98 Sq.m respectively.
4. Maximum number of floors will be 6 Floors and maximum height of the building will be 24.2 m.
5. Total Saleable DU's (dwelling units) is 1928 nos.

Based on the documents submitted and the presentation made, the Committee decided to direct the PP to submit the following additional details.

1. Lat-Long of area falling within CRZ II that is proposed to be excluded from any construction. Form I to be suitably amended.
2. NoC and inundation situation appraisal from the Water Recourses Department.

Agenda No: 439 – 27.

(File No: 10295/2023)


Proposed Construction of High Rise Residential Building in S.Nos : 513/1A1B, 7/1, 7/2 of Kundrathur B village, Kundrathur taluk, Kancheepuram district by M/s Casa Grand Fresh Private Limited - For Environmental Clearance. (SIA/TN/MIN/438609/2023, Dt. 30.07.2023)

Earlier, the proposal was placed for appraisal in 414th meeting of SEAC held on 06.10.2023. 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 environmental clearance is sought for Construction of High Rise Residential Building in S.Nos : 513/1A1B, 7/1, 7/2 of Kundrathur B village, Kundrathur taluk, Kancheepuram district by the PP M/s Casa Grand Fresh Private Limited.
2. M/s Ecotech Labs Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is 20274.77 m² and built-up area is 73894.26 m² respectively.
4. Maximum number of floors will be 12 Floors and maximum height of the building will be 39.45 m.
5. Total Saleable DU's (dwelling units) is 452 nos.

Based on the documents submitted and presentation made by the project proponent along with the consultant, SEAC decided to ask the PP to submit the following additional details for appraising the proposal.

1. The PP shall produce an inundation letter from the WRD with reference to year 2015 water levels, as the River Adyar is flowing nearby.
2. The PP stated that Kundrathur Municipality has given commitment letter for providing drinking water and for giving connection to UGSS is under implementation. As UGSS takes long time to implement, PP shall produce a commitment letter from the nearby Pallavaram Municipality to accept the surplus treated waste water until the UGSS comes into operation. The cost of transportation shall be borne by the PP.


Subsequently, the authority noted that the subject was appraised in the 414th meeting of SEAC held on 06.10.2023 and the authority noted the 414th meeting of SEAC held on 06.10.2023. The project proponent furnished reply on 27.12.2023.

Again, the proposal was placed in 439th SEAC meeting held on 10.01.2024 and SEAC noted that the PP was absent for this meeting and SEAC decided to take this proposal in any one of the forthcoming meeting.

Agenda No: 439 – 28

File No: 10316/2023

Proposed Rough stone and Gravel Quarry Project over an Extent of 3.42.7Ha of patta lands in S.F.Nos.455/1 (P), 455/2(P) and 456/1B (P) of Kasthuriengapuram Part -I


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Village, Tisayanvilai Taluk, Tirunelveli District, Tamil Nadu by Thiru.J.Dinesh Kumar – For Environmental Clearance. (SIA/TN/MIN/439921/2023 Dt. 09.08.2023).

Earlier, this proposal was appraised in the 425th meeting of SEAC held on 23.11.2023 and the details of the proposed project are given in the website (parivesh.nic.in).

The SEAC noted the following:


1. Earlier, the application No. SIA/TN/MIN/284059/2022dt: 19.07.2022 was appraised (File No. 9436/2022) vide 366th SEAC meeting held on 30.03.2023. Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and it has been observed that there are a few structures including a Windmill and a Poultry farm structure are located at a distance of 100 m and 120m from lease area which attracts the provisions of Rule 36 (1-A) (a) of the Tamil Nadu Minor Mineral Concession Rules, 1959 states *“No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site.....”*

Therefore, SEAC decided not recommended the proposal for grant of Environmental Clearance.

2. Now, The project proponent, Thiru.J.Dinesh Kumar has applied with revised documents like Precise area Communication letter, Modified mining plan etc., for Environmental Clearance for the Rough stone and Gravel Quarry Project over an Extent of 3.42.7Ha of patta lands in S.F.Nos.455/1 (P), 455/2(P) and 456/1B (P) of Kasthuriengapuram Part -I Village, Tisayanvilai Taluk, Tirunelveli District, Tamil Nadu.
3. The project/activity is covered under category “B2” of Item 1 (a) “Mining of Minerals Projects” of the schedule to the EIA Notification, 2006.
4. The precise area communication was issued for the period of 5 years. The approved mining plan is for the period of 1st five years & production should not exceed 515720m³ of Rough Stone & 48024m³ of Gravel. The annual peak production is 106630m³ of Rough Stone (4th Year) & 21672m³ of Gravel (1st Year). The depth of mining is 42m BGL.


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5. The PP have informed that the PP had freshly applied with the reduced lease area of extent to facilitate a safe distance of 160 m from the windmill structure through fresh precise area communication and revised Mining Plan duly approved by the competent authority.

Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. J.Dinesh Kumar, S/o. R.Jayamoorthi, No. #12, Vinayaga Road, Kammanahalli Main Road, Bangalore North, Karnataka State – 560 084.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone and Gravel
3.	S.F Nos. of the quarry site with area break-up	:	455/1 (P), 455/2(P) and 456/1B (P)
4.	Village in which situated	:	Kasthuriengapuram Part -I
5.	Taluk in which situated	:	Tisayanvilai
6.	District in which situated	:	Tirunelveli
7.	Extent of quarry (in ha.)	:	3.42.7Ha
8.	Latitude & Longitude of all corners of the quarry site	:	08°17'43.89"N to 08°17'49.45"N 77°44'06.97"E to 77°44'15.00"E
9.	Topo Sheet No.	:	58 - H/11
10.	Type of mining	:	Open Cast mechanized mining
11.	Life of Project	:	5 Years
	Lease Period	:	5 Years
	Mining Plan Period	:	5 Years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³ (RoM)	:	Rough Stone in m ³
			Gravel in m ³ 1370800m ³ 68540m ³


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	Mineable Resources m ³ (RoM)	:	Rough Stone 515720m ³	Gravel 48024m ³
	Annual Peak Production in m ³	:	Rough Stone 1,06,630m ³	Gravel 21672m ³
	Maximum Depth in meters	:	42m BGL	
13.	Depth of water table	:	62m-58m	
14.	Man Power requirement per day:	:	55 Nos	
15.	Water requirement: 10. Drinking water 11. Utilized water 12. Dust suppression 13. Green belt	:	2.5 KLD 0.7 KLD 1.0 KLD 0.8 KLD	
16.	Power requirement	:	TNEB	
17.	Precise area communication approved by the Joint Director / Assistant Director (i/c) Department of G&M.	:	Rc.No.M2/1791/2022 Dated: 04.07.2023.	
18.	Mining Plan approved by Joint Director / Assistant Director (i/c) Department of G&M.	:	Rc.No.M2/1791/2022 Dated: 21.07.2023	
19.	Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter	:	Rc.No.M2/1791/2022 Dated: 21.07.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Dt: 08.07.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 109.37Lakhs	


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22.	EC Recommendation	:	As per approved mining plan		
				Rough Stone	Gravel
			Max Total RoM in m ³	515720 m ³	48024 m ³
			Annual Max RoM in m ³	1,06,63 0m ³	21672m ³
			Max Depth in mtrs	42m BGL	
23.	EMP cost (in Rs. Lakh).	:	Capital Cost Rs.37.03Lakhs Recurring Cost Rs.26.55 Lakhs 5% of inflation cost to be included for every year.		
24.	CER cost (in Rs. Lakh).	:	Rs. 5 Lakhs		


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

1. Details regarding the abandoned 'Poultry farm' structure located at 172m from the proposed lease area.

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

Subsequently, the proposal was placed in 682nd Authority meeting held on 20.12.2023 and the authority noted the remarks of 425th meeting of SEAC held on 23.11.2023. In this connection, the project proponent furnished reply on 26.12.2023. Again, the proposal was placed in 439th SEAC Meeting held on 10.01.2024.

Based on the presentation and documents furnished by the project proponent, the Committee carefully examined the points raised by SEAC and the replies given by the PP. SEAC decided to recommend the proposal for the grant of Environmental Clearance


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for the annual peak production capacity not exceeding 1,06,630m³ of Rough stone, and 21672m³ of Gravel by restricting the ultimate depth of mining up to 42m below ground level and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) 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.
- 3) The PP shall appoint a First Class/Second Class Mine Manager for managing the quarrying operations before obtaining the CTO from DEE/TNPCB and a copy of the appointment furnished at the time of lease execution with a copy forwarded to the Director of Mines Safety, Chennai Region along with Notice of Opening of the Mine under the provisions of MMR 1961.
- 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) The PP shall install the garland drainage with siltation tank around the mine lease area leading to the Eri situated nearby with proper gradient shall be completed before execution of the mine lease.
- 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


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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 not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 8) Considering the wind mill and other 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.
- 9) However, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations with prior permission from the Director of Mines Safety/Chennai Region, to **design the controlled blast parameters initially** for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations **subsequently with proper validation of the design through trial blasts** in the proposed quarry after obtaining the prior permission from the DMS / Chennai Region, 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.
- 10) As a part of ensuring 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 Wind mill & other sensitive structures located within 300 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.


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11) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or the depth of quarry touches 30 m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

12) As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and it shall be spent for the activities as committed towards the Government Higher Secondary School, Kasthuriengapuram, Tirunelveli before obtaining CTO from TNPCB.

Agenda No: 439-29

(File No: 10419/2023)

Proposed Rough stone & Gravel quarry lease over an extent of 1.44.50Ha at SF.No. 329/2, 329/3, 329/5, 329/6, 338/1 & 339/6 of Palayaseevaram -A Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu by Thiru.E.Muthukrishnan - For Environmental Clearance. (SIA/TN/MIN/444906/2023, Dated: 20.09.2023)

The proposal was placed in 428th meeting of SEAC held on 08.12.2023. 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, Thiru.E.Muthukrishnan has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 1.44.50Ha at SF.No. 329/2, 329/3, 329/5, 329/6, 338/1 & 339/6 of Palayaseevaram -A Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and documents furnished by the project proponent, SEAC noted that, the Survey nos 329/3, 329/5, 329/6 and 338/1 comes under "Nanjai


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Category". Hence the committee decide that, the PP shall furnish NoC from Collector for conversion of land use.

Now the proposal was placed in 439th meeting of SEAC held on 10.01.2024. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

Sl.No	SEAC Query	Reply
1.	Based on the presentation and documents furnished by the project proponent, SEAC noted that, the Survey nos 329/3, 329/5, 329/6 and 338/1 comes under "Nanjai Category". Hence the committee decide that, the PP shall furnish NoC from Collector for conversion of land use.	NOC Obtained from "The District Collector" dated 26.12.2023 for the land use conversion.

File No	10419/2023	Category	B2
	SIA/TN/MIN/444906/2023, Dated:20.09.2023		
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.E. Muthukrishnan S/o. Elumalai, New No.221, Chenjiyamman Koil Street, Arasanipalai Post, Chithalapakkam, Mamandur, Cheyyar, Tiruvannamalai District - 631702
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone & Gravel quarry

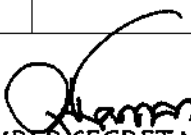

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3.	S.F Nos. of the quarry site with area break-up	:	329/2, 329/3, 329/5, 329/6, 338/1 & 339/6
4.	Village in which situated	:	Palayaseevaram -A
5.	Taluk in which situated	:	Walajabad
6.	District in which situated	:	Kancheepuram
7.	Extent of quarry (in ha.)	:	1.44.50Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°47'39.52"N to 12°47'45.17"N 79°51'1.17"E to 79°51'7.19"E
9.	Topo Sheet No.	:	57-P/13
10.	Type of mining	:	Opencast Semi-mechanized Mining
11.	Life of Project	:	5 Years
	Lease Period	:	5 Years
	Mining Plan Period	:	5 Years
12.	Mining Plan Details	:	As per approved Mining Plan
			Rough stone Gravel
	Geological Resources m ³	:	6,49,440m ³ 28,864m ³
	Minable Resources m ³	:	2,56,605m ³ 22,794m ³
	Annual Peak Production in m ³	:	58,590m ³ 9,394m ³
	Maximum Depth in meters	:	47m BGL
13.	Depth of water table	:	60m in summer season – 55m rainy season
14.	Man Power requirement per day:	:	18 Employees
15.	Water requirement:	:	3.5 KLD
	1. Drinking water & utilized water		1.50 KLD
	2. Dust suppression		1.0 KLD
	3. Green belt		1.0 KLD
16.	Power requirement	:	TNEB 209080 Liters of HSD will be utilized


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17.	Precise area communication approved by the Assistant Director (i/c), Department of G&M.	:	Na.Ka.No.195/Q3/2023, Dated:04.09.2023.	
18.	Mining Plan approved by Assistant Director (i/c), Department of G&M.	:	Rc.No.195/Q3/2023, Dated:11.09.2023.	
19.	500m Cluster Letter approved by the Assistant Director (i/c), Department of G&M.	:	Rc.No.195/Q3/2023, Dated:11.09.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:14.09.2023	
21.	Project Cost (excluding EMP cost)	:	Rs.1,60,50,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
			Max Total in m ³	2,56,605 m ³ 22,794m ³
			Annual Max in m ³	58,590m ³ 9,394m ³
			Max Depth in mtrs	47m BGL
23.	EMP cost (in Rs. Lakh).	:	Rs.45.68 Lakhs	
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 58,590m³ of Rough stone and 9,394m³ of Gravel by maintaining the ultimate depth of mining up to 47m BGL and


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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 PP shall appoint a First Class/Second Class Mine Manager for managing the quarrying operations before obtaining the CTO from the TNPCB and a copy of the appointment shall be furnished at the time of lease execution besides a copy sent to the Director of Mines Safety, Chennai Region along with Notice of Opening of the Mine under the provisions of MMR 1961.
3. 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.
4. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
5. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial


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distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.

6. 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.
7. 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 one year from the commencement of mining operations for evaluating the slope stabilization & protective measures at the ultimate pit limits, 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.
8. The PP shall carry out the Regular monitoring of ground water level & quality by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year- pre-monsoon (April -May), monsoon (August), post - monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board with a copy forwarded to the DEE/TNPCB.
9. However, as a part of Ground Water Management, the PP shall annually carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NEERI/Chennai, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of


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Mining Engg, Surathkal, University of Madras – Dept of Geology, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

10. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Middle School, Sankarapuram Village School before obtaining CTO from TNPCB.

Agenda No: 439-30

(File No: 7909/2020)

Proposed of Rough stone and Gravel Quarry lease over an extent of 1.62.0Ha in S.F.No. 42/1B and 43/1B of Pachapalyam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru. A. Myilsamy- For Environmental Clearance.


(SIA/TN/MIN/57115/2020, Dated 01.09.2022)

The proposal was placed in 336th Meeting of SEAC held on 07.12.2022. 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 Project Proponent, Thiru. A. Myilsamy has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 1.62.0 Ha at S.F.No.42/1B and 43/1B of Pachapalyam Village, Sulur Taluk, Coimbatore 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. ToR issued - Lr. No. SEIAA-TN/ F.No.7909/ SEAC/ ToR-886/2020 dated: 16.03.2021.
4. Public hearing conducted on Dated:27.05.2022.

During presentation, on viewing Google map, it appears that PP have mined up to 3m to 5m depth. Hence SEAC decided that the concerned AD Geology & Mines shall inspect


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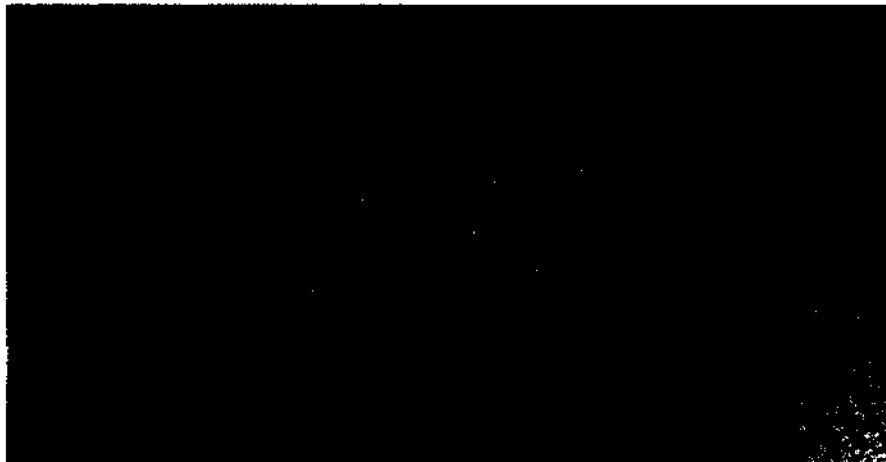
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the site and furnish the inspection report regarding any violation activity by the Proponent.

Earlier the proposal was placed in 396th Meeting of SEAC held on 28.07.2023. The PP has furnished letter from AD Mines dated 01.02.2023 which states that,

Sl. No.	Clarification requested	Reply
1	Clarification regarding the excavation of mineral prior to obtaining quarry lease	A total quantum of 24780 chm of top soil has been excavated in the S.F.Nos. 42/1B & 43/18 from the applied area with dimension of 236 m (L) x 70m (W) x 1.5m (D). Further, the excavated mineral has been used for the construction of the bunds around the leasehold area and to make ramp in the bunker for transporting mineral from quarry to crusher.



Based on the presentation and documents furnished by the project proponent, SEAC decided that the reply furnished by the AD is not only evasive but also not factual. SEAC, therefore decided to request the SEIAA to ask the Director of Geology & Mining, Chennai to depute a senior official to inspect the site and give a report and also for obtaining an explanation from the AD (Mines), Dept of Geology and Mining.


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Coimbatore for not recording the ground realities and factual information about the site condition.

A letter was addressed to the Director, Department of Geology & Mining dated 05.09.23 stating the above and requested for a report.

Now the proposal was placed in 439th meeting of SEAC held on 10.01.2024. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

Sl. No	SEAC Query	Reply
1.	In view of the above the Authority after details deliberation accepts the decision of SEAC. Further, SEIAA decided to request the MS- SEIAA to write letter to the direction of Geology & Mining, Chennai to depute a senior official to inspected the site and give a report and also the direction shall obtain an explanation from the AD (Mines), Dept of Geology and Mining, Coimbatore for recording the ground realities and factual information about the site condition. In addition to that the authority decided to request the MS- SEIAA to obtain a letter from AD/DD mines stating that the project will not fall under violation category.	RDO inspection and penalty levied letter submitted. Penalty paid Receipt enclosed and NOC from Dept of Geology and Mining obtained. Chapter 13 submitted for Violation TOR.


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Based on the presentation and documents furnished by the project proponent, SEAC decided that SEIAA may be requested to get the report from the Commissioner, Department of Geology & Mining by sending a reminder for the above unanswered query.

Agenda No: 439 - 31

(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)

Earlier, 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 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 & 799m³ of Gravel.
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.
5. The PP has furnished CCR vide EP/12.1/2023-24/SEIAA/65/TN/967 dated 09.08.2023.

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


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concerned AD (Mines), Department of Geology & Mining.

Again, 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.

Now the proposal was placed in 439th meeting of SEAC held on 10.01.2024. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.


The EIA Co-ordinator stated that, the latest OM dated 03.11.2023 is issued as a clarification of 28.04.2023, and hence the above query is not applicable.

Based on the presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (ToR) with Public Hearing, subject to the following ToRs, and subject to the standard conditions as per the Annexure I of this minute, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall submit the 'Action Plan' on the issues raised during the Public Hearing with budgetary provisions for the same.
2. The PP shall submit the Comprehensive EIA with detailed mitigation measures including the controlled blasting measures for reducing the impacts due to the blasting operation air pollution and water pollution, etc on the surrounding structures existing within 1 km of the proposed quarry.
3. The PP shall exhibit the action plan for carrying out the quarrying activities systematically and scientifically keeping the structures belonging to the owner that exist within 300 m distance.
4. The PP shall submit a 'Conceptual Mining Plan' indicating the accessible ramp from the surface to the pit bottom keeping the benches intact for the dimension as stipulated in the Approved Mining Plan.
5. The PP shall submit the nature of buildings/structures, occupants, and their profession, etc located within 500 m radius of the proposed quarry.
6. The project proponent shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures along with


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the budgetary allocation for the non-compliance stated therein.

7. 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.
8. The PP shall furnish the ownership details of the physical structures located near the proposed mine lease area, number of workers, time period of working etc
9. If 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.

AGENDA No: 439 – 32

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


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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.

Subsequently the subject was taken up for discussion in the 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 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.

Now the subject was taken up for discussion in this 439th meeting of SEAC held on 10.01.2024. The PP informed the Committee that the CCR for the existing quarry is still to be obtained. 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/EEMP 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)


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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. The PP shall furnish the ownership details of the physical structures located near the proposed mine lease area, number of workers, time period of working etc
3. If 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.
4. 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.
5. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
6. 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.


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



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ANNEXURE-I

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

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


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


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GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

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


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


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


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

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

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



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ROUGH STONE/JELLY/BLUE METAL QUARRY

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


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

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


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


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


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shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

32) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.

33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.

34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.

35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.


36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.

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

38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole


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


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

14. Quantity of minerals mined out.
- Highest production achieved in any one year
 - Detail of approved depth of mining.
 - Actual depth of the mining achieved earlier.
 - Name of the person already mined in that leases area.
 - If EC and CTO already obtained, the copy of the same shall be submitted.
 - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,
17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.
19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.


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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.


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


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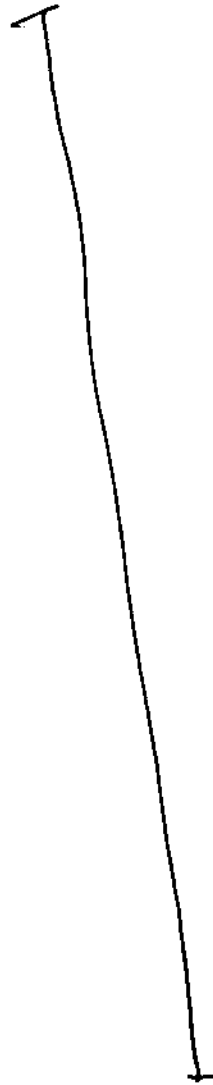
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the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner

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

photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.

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




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Annexure II

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

1. Statutory Compliance:

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


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9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.

10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

2. Air quality monitoring and preservation:

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.

2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.

3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.

4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.

5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.

6. Wet jet shall be provided for grinding and stone cutting.

7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.

8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly

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

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

3. Water Quality Monitoring and Preservation:

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


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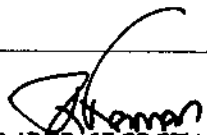
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specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

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

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


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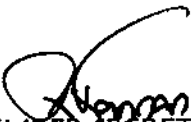

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4. Noise Monitoring and Prevention:

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

5. Energy Conservation Measures:

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


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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


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

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

7. Green Cover:

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


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

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

8. Transport:

1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.

- a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
- b. Traffic calming measures.
- c. Proper design of entry and exit points.
- d. Parking norms as per local regulation.

2. Vehicles hired to bring construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.

3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of


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

9. Human Health Issues:

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

10. Corporate Environment Responsibility:

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


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

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

11. Miscellaneous:

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


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

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


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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	விவம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சள், அழகந்தாழ்வாணி
3	<i>Albizia lebbek</i>	Vaagai	வாழை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆதி
7	<i>Bauhinia tomentos</i>	Iruvathi	இருவாதி
8	<i>Buchanania axillaris</i>	Kattuna	கட்டூர்
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murakkamaram	முருக்கமரம்
11	<i>Bobax caba</i>	Ilavu, Sevvilavu	இலாவு
12	<i>Calophyllum inophyllum</i>	Purnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சரகண்டரை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கண்டரை
15	<i>Chloroxylon sweetenia</i>	Purasamaram	புரசாமரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கொங்கு, மஞ்சள் இலாவு
17	<i>Cordia dichotoma</i>	Naruvuli	நரூவூலி
18	<i>Creteva adansoni</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சீர் உவா
21	<i>Diospyro sebenuum</i>	Karungali	கரங்கலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amplissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceu</i>	Aatrupoovarasu	ஆத்ரூபுவாரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில் மரம், ஆயில்
27	<i>Lansia coromandelica</i>	Odhiam	ஒடியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மரூது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கெட்டிமரம் மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellar Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	ஏச்சை
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முனை
41	<i>Premna serratifolia</i>	Narumunnai	நடு முனை
42	<i>Premna tomentosa</i>	Malapoovarasu	மலை பூங்கா
43	<i>Prosopis cinerea</i>	Vanni maram	வாணி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்டாங்க
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salsodora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மாணிபுளம் சோபுகை
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தாங்க கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூங்கா
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்கப்பூளி


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Appendix –III

Display Board

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

சாரங்கம்

சாரங்கத்தில் குவாசி செயல்படுத்தக்கூடிய ஏற்றுத்தரல் அனுமதி திறக்க சூத்திரங்களுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEAA, தென்மேல் ம.க.டு, ஏற்றுத்தரல் அனுமதி தெரி வர சேல்லத்தக்கதாக உடனடி

பணம் பற்றி வர்த்தகம்	குவாசியின் சர்க்காரச் சந்தி கோரி அமைக்க வேண்டும்
கேள்விகளுக்கான ஏற்கென திட்டம்	ஏற்கெனவே உள்ள ஆய்வு தகவல்களைத் தீர்மானித்து மீட்டிடுக வேண்டும் இரகக் கோட்டுகள்
	காத்திரம் மர ஏற்றுத்தரலை ஏற்க பாசியனை தெரிவிக்க வேண்டும்.
நடவடிக்கை	குவாசியின் சேர்ந்து பணத்தில் மர ஏற்றுத்தரல் அமைக்க தன்மீது முடிவாக தள்ளி வைக்க வேண்டும் முடிவாக அடையவேண்டுமென்ற கோரிக்கை வேண்டும்.
பிராந்திய ம.க.டு கோரிய ஏற்கென வர்த்தகம்	இருக்காத அமைப்பை தர பாசியனை மர குவாசியின் சர்க்காரச் சந்தி அடக்கிய பணம் பற்றிய ஏற்றுத்தர வேண்டும்.
ஏற்கெனவே மர, காவல்களில் இருந்து திரும்பிவரும் ஏற்றுத்தரலை மீண்டும் ஏற்க முடிவாகவே பணத்தில் நடவடிக்கைகளை உடனடியாக செயல்படுத்த வேண்டும்.	
ஏற்கெனவே இருந்து ஏற்றுத்தரல் அமைக்க 25 ம.க.டு (25) அமைக்க மர ஏற்றுத்தரலை தடுத்த மீட்டிடுக வேண்டும்.	
ஏற்கெனவே மர சந்தி சந்தி ஏற்கெனவே உடனடியாகவே தடுத்த பணத்தில் குவாசியின் வழங்குவதற்கு கவனமுடன் கட்டுப்பாடு செய்து தர வேண்டும்.	
மீளும் அடைய முடிவாகவே வழங்க வேண்டும் சேர்ந்து தர பாசியனை வேண்டும்.	
ஏற்கெனவே மர அமைக்க வேண்டும் மீட்டிடுக வேண்டும் மீட்டிடுக வேண்டும்.	
மீட்டிடுக வேண்டும் மீட்டிடுக வேண்டும் மீட்டிடுக வேண்டும் மீட்டிடுக வேண்டும்.	
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முடிவாகவே திறக்கவேண்டும் அமைக்க வேண்டும் (http://www.sea.com) மீட்டிடுக வேண்டும் மீட்டிடுக வேண்டும் மீட்டிடுக வேண்டும் மீட்டிடுக வேண்டும்.	


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