

State Expert Appraisal Committee (SEAC)

Minutes of 376th meeting of the State Expert Appraisal Committee (SEAC) held on 05.05.2023(Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 376 – 01

(File No: 9867/2023)

Proposed Earth quarry lease area over an extent of Extent 2.63.4 Ha at S.F.No. 2/1B (Part), 2/3B (Part) & 139/1A of Manikollai Village, Bhuvanagiri Taluk, Cuddalore District, Tamil Nadu by Thiru. M.R. Mullai Murugan - For Environmental Clearance. (SIA/TN/MIN/420125/2023, Dated: 28.02.2023)

The proposal was placed for appraisal in this 376th meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. M.R. Mullai Murugan has applied for Environmental Clearance for the proposed Earth quarry lease area over an extent of Extent 2.63.4 Ha at S.F.No. 2/1B (Part), 2/3B (Part) & 139/1A of Manikollai Village, Bhuvanagiri Taluk, Cuddalore 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. As per the mining plan, the lease period is for 2 years. The production for 2 years not to exceed ^{34,558}~~33,558~~m³ of Earth to an ultimate depth of Mining 2m BGL.

File No	9867	Category	1(a)
	Online No. - 419081		B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. M.R. Mullai Murugan No.2, Sabha Nagar, AmmapettaiPost Chidambaram Taluk, Cuddalore District-608401


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2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Earth quarry	
3.	S.F Nos. of the quarry site with area break-up	:	2/1B (Part), 2/3B (Part) & 139/1A	
4.	Village in which situated	:	Manikollai	
5.	Taluk in which situated	:	Bhuvanagiri	
6.	District in which situated	:	Cuddalore	
7.	Extent of quarry (in ha.)	:	2.63.4	
8.	Latitude & Longitude of all corners of the quarry site	:	11°32'59.04"N to 11°33'09.61"N 79°42'53.30"E to 79°43'00.42"E	
9.	Topo Sheet No.	:	58- M/10	
10.	Type of mining	:	Opencast method of shallow mining without drilling & Blasting	
11.	Life of Project	:	2 Years	
	Lease Period	:	2 Years	
	Mining Plan Period	:	2 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Earth 52,680m ³	Earth 52,680m ³
	Mineable Resources m ³ (RoM)	:	Earth 34,558m ³	Earth 34,558m ³
	Annual Peak Production in m ³	:	Earth 17,382m ³	Earth 17,382m ³
	Maximum Depth in meters	:	2m BGL	2m BGL
13.	Depth of water table	:	10m in rainy & 15m in summer seasons	
14.	Man Power requirement per day:	:	10 Nos	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	1.4 KLD 0.2 KLD 0.8 KLD 0.4 KLD	
16.	Power requirement	:	5,760 Litres of HSD	
17.	Precise area communication approved by the Assistant Director (i/c), Department of G&M	:	Rc.No.230/Mines/2020, Dated: 21.11.2022	

18.	Mining Plan approved by Assistant Director (i/c), Department of G&M.	:	Rc.No.230/Mines/2020, Dated: 25.11.2022	
19.	Department of G&M, Assistant Director (i/c), 500m Cluster Letter	:	Rc.No.230/Mines/2020, Dated: 25.11.2022	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 04.03.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 29,17,000	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:		Earth
		:	Max Total RoM in m ³	34,558m ³
		:	Annual Max RoM in m ³	17,382m ³
		:	Max Depth in mtrs	2m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 13,42,480 Recurring Cost – Rs. 5,86,588	
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 period of 2 Years* for the production quantity of 34,558 m³ of Earth and the peak production does not exceed 17,382 m³ of Earth/year & the ultimate depth of mining upto 2m BGL subject to the standard conditions & 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.


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2. The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions of Mines Act 1952.
3. 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.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.

11. **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.
12. 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.
13. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
14. 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.
15. 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.
16. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted.


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17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions

laid down in all other laws for the time-being in force, rests with the project proponent.

24. 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.

25. 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.

26. As accepted by the Project proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the Panchayat Union Primary school, Manikkollai Village, Ramanadhan Kuppam, Cuddalore as committed, before obtaining CTO from TNPCB.

Agenda No: 376-02

(File No: 9874/2023)

Proposed Gravel quarry lease area over an extent of Extent 2.05.5 Ha at S.F.No. 147/1, 2, 3, 4, 5A, 6A, 6C, 8, 9A, 10, 11A & 158/1 of Athilivakkam Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu by Tmt. M. Uma Maheshwari- For Environmental Clearance. (SIA/TN/MIN/420790/2023, Dated: 03.03.2023)

The proposal was placed for appraisal in this 376th meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tmt. M. Uma Maheshwari has applied for Environmental Clearance for the proposed Gravel quarry lease area over an extent of Extent 2.05.5 Ha at S.F.No. 147/1, 2, 3, 4, 5A, 6A, 6C, 8, 9A, 10, 11A & 158/1 of Athilivakkam Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 1 year. The production for 1 year not to exceed 19,240m³ of Gravel to an ultimate depth of Mining 2m BGL.



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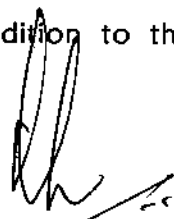

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File No		9874		Category	1(a)		
		Online No. - 420790			B2		
Sl. No		Salient Features of the Proposal					
1.		Name of the Owner/Firm		:	Tmt. M. Uma Maheswari W/o K Mahesh No: 1/12, 3rd Street, Subramaniapuram, Kolathur Chennai - 600099.		
2.		Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)		:	Gravel quarry		
3.		S.F Nos. of the quarry site with area break-up		:	147/1, 2, 3, 4, 5A, 6A, 6C, 8, 9A, 10, 11A & 158/1		
4.		Village in which situated		:	Athilivakkam		
5.		Taluk in which situated		:	Uthukottai		
6.		District in which situated		:	Tiruvallur		
7.		Extent of quarry (in ha.)		:	2.05.5		
8.		Latitude & Longitude of all corners of the quarry site		:	13°17'01.83"N to 13°17'05.52"N 79°54'49.01"E to 79°54'57.67"E		
9.		Topo Sheet No.		:	57- O/15		
10.		Type of mining		:	Opencast method of shallow mining without drilling & 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)		:	Gravel 41,100m ³		Gravel 41,100m ³
		Minable Resources m ³ (RoM)		:	Gravel 19,240m ³		Gravel 19,240m ³
		Annual Peak Production in m ³		:	Gravel 19,240m ³		Gravel 19,240m ³
		Maximum Depth in meters		:	2m BGL		2m BGL
13.		Depth of water table		:	42m in rainy & 47m in summer seasons		
14.		Man Power requirement per day:		:	08 Nos		

15.	Water requirement: 4. Drinking water 5. Dust suppression 6. Green belt	:	2.0 KLD 0.2 KLD 1.5 KLD 0.3 KLD	
16.	Power requirement	:	3,210 Litres of HSD	
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Na.Ka.No.197/2022/Kanimam.2, Dated: 23.11.2022	
18.	Mining Plan approved by Deputy Director, Department of G&M.	:	Rc.No.197/2022/G&M-2, Dated: 20.01.2023	
19.	Department of G&M, Deputy Director, 500m Cluster Letter	:	Rc.No.197/2022/G&M-1, Dated: 20.01.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 12.01.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 23,53,000	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	Gravel 19,240m ³
		:	Annual Max RoM in m ³	19,240m ³
		:	Max Depth in mtrs	2m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 13,84,100 Recurring Cost – Rs. 5,64,810	
24.	CER cost (in Rs. Lakh).	:	Rs. 2,00,000	

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for the quantity of 19,240 m³ of gravel to an ultimate depth of 2m for a maximum period of one year** as per the approved mining plan subject to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:


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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 mine manager and other statutory competent persons shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952.
3. The Project Proponent shall develop the Green belt activities (tree plantations of two to three rows) in the safety zone as stipulated in the Mining Plan around the periphery of the proposed quarry lease before obtaining the CTO from the TNPCB.
4. The Project Proponent shall not carry out blasting operations.
5. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
6. The PP shall ensure that the transport vehicles used in the quarry are adequately covered with tarpaulin before it is allowed to enter into the adjacent village panchayat road.
7. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m safety distance from water body/canal should be maintained with developing green plantation. 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.
8. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures **including metallic sheets** before obtaining the CTO from TNPCB.


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9. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
10. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
11. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
12. 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.
13. As accepted by the Project proponent the CER cost is **Rs. 2.0 lakh** and the amount shall be spent for the activities committed for the Panchayat Union Primary School, Aalpakkam Village, Poondi Union, Trivallur District before obtaining CTO from TNPCCB.

Agenda No: 376-03

(File No: 9881/2023)

Proposed Lime Kankar quarry lease area over an extent of Extent 123.26.5 Ha at S.F.No. Parts of 7 to 15, 17 to 32, 34, 40, 101 to 103, 107 to 109, 113, 118, 124 to 130, 132, 138 to 139 & 213 to 215 of Vadakkunatham Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by M/s. The Ramco Cements Limited - For Environmental Clearance. (SIA/TN/MIN/419988/2023, Dated: 27.02.2023)

The proposal was placed for appraisal in this 376th meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. The Ramco Cements Limited has applied for Environmental Clearance for the proposed Lime Kankar quarry lease area over an extent of Extent 123.26.5 Ha at S.F.No. Parts of 7 to 15, 17 to 32, 34, 40, 101 to 103, 107 to 109, 113, 118, 124 to 130, 132, 138 to 139 & 213 to


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215 of Vadakkunatham Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu.

2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 10 years. The production for first five years is RoM – 15,01,500m³ of Lime Kankar and 1,25,000 m³ of Clay (Black Cotton Soil) for an ultimate depth of Mining 3m BGL.
4. Terms of Reference issued by MoEF&CC vide F.No. J-11015/40/2019-IA.II (M) Dated: 14.05.2019 and subsequently had conducted public hearing on 01.12.2022.

Based on the presentation and document furnished by the proponent, the PP has requested to defer the proposal until the transfer of file from the EAC which had issued the ToR under the provisions of MoEF Guidelines.

The SEAC will deliberate on the proposal after hearing from the PP.

Agenda No: 376-04

(File No: 9888/2023)


Proposed Rough stone quarry lease area over an extent of Extent 0.78.80 Ha at S.F.No. 189/1B (P) & 192/2(P) of Mallapuram Village, Gujiliyamparai Taluk, Dindigul District, Tamil Nadu by Thiru. K. Lakshmanan - For Environmental Clearance. (SIA/TN/MIN/419724/2023, Dated: 24.02.2023)

The proposal was placed for appraisal in this 376th meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Thiru. K. Lakshmanan has applied for Environmental Clearance for the proposed Rough stone quarry lease area over an extent of Extent 0.78.80 Ha at S.F.No. 189/1B (P) & 192/2(P) of Mallapuram Village, Gujiliyamparai Taluk, Dindigul 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. As per the mining plan, the lease period is for 10 year. The production for 5 year not to exceed 36,035m³ of Rough stone for a depth of Mining 10.5m

BGL.


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

1. DFO, Dindigul has stated that the Slender Lorris wildlife Sanctuary is located at a distance of 8.2km from the proposed site vide Rc.No.10123/2022/va 1, Dated: 26.12.2022 and hence the PP shall obtain NBWL clearance, vide, MoEF &CC Office Memorandum no. FC-11/119/2020-FC dated 17th May, 2022.
2. The proponent shall enumerate on the details of the structures located within 100m, 200m, 300m and 500 m radius from the proposed mine lease area indicating the type of structure/building, usage/purposes of such building structures – Commercial/ industrial/ Residential/ Farm house/ Government building structures such as Sub-station, occupants of such buildings/structures, ownership of the buildings/structures-whether it belongs to the PP (or) not, etc.

On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.

Agenda No: 376-05

(File No: 9868/2023)

Proposed Rough Stone & Gravel quarry Lease over an extent of 1.53.00 Ha at S.F.No. 153/1 (part) of Thennilai East Village, Pugalur Taluk, Karur District, Tamil Nadu by Mr.K.Ramasamy – For Environmental Clearance.

(SIA/TN/MIN/419905/2023 dated.28.02.2023)

The proposal was placed for appraisal in this 376th meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are available on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, **Mr.K.Ramasamy** has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 1.53.00 Ha at S.F.No. 153/1 (part) of Thennilai East Village, Pugalur Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item I(a) "Mining of Minerals Project" of the Schedule to the EIA Notification,2006.
3. Earlier, EC was accorded to the project proponent by DEIAA vide/Lr.No. DEIAA-DIA/TN/MIN/18652/2018-KRR Ec.No.135/2018/ Mines dated.


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02.11.2018 for a quantity of 2,42,7600m³ of rough stone & 24,388m³ of gravel upto a depth of 42m.

4. Now, the proponent has submitted an application seeking Environmental Clearance for the Scheme of Mining.

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

File No		9868		Category		1(a)	
		SIA/TN/MIN/419905/2023				B2	
Sl. No	Salient Features of the Proposal						
1.	Name of the Owner/Firm		:	Thiru. K. Ramasamy, S/o. Karuppannagounder, No. 101, Vaiyapuri Nagar,1 st Cross, Sengunthapuram Post, Karur District – 639 002.			
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. 853/1(part)			
4.	Village in which situated		:	Thennilai East Village			
5.	Taluk in which situated		:	Pugalur			
6.	District in which situated		:	Karur			
7.	Extent of quarry (in ha.)		:	1.53.0 Ha			
8.	Latitude & Longitude of all corners of the quarry site		:	10°58'40.15"N to 10°58'45.47"N 77°52'37.15"E to 77°52'40.74"E			
9.	Topo Sheet No.		:	58F/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		As modified by SEAC with the consent of QP	
	Geological Resources m ³ (RoM)		:	Rough Stone – 6,03,176		Rough Stone – 6,03,176	
			:	Gravel – 14,280		Gravel – 14,280	

	Minable Resources m ³ (RoM)	:	Rough Stone – 2,23,860 Gravel – 10,962	Rough Stone – 2,23,860 Gravel – 10,962
	Annual Peak Production in m ³	:	Rough Stone – 49,465 Gravel – 10,962	Rough Stone – 49,465 Gravel – 10,962
	Maximum Depth in meters	:	42m BGL	42m BGL
13.	Depth of water table	:	55m – 50m	
14.	Man Power requirement per day:	:	18 Nos.	
15.	Water requirement: 1. Drinking water & Domestic purposes 2. Dust suppression 3. Green belt	:	4.75 KLD 2.25 KLD 1.0 KLD 1.5 KLD	
16.	Power requirement	:	1,80,918 litres of HSD	
17.	Precise area communication approved by District Collector, with date	:	Roc.No.219/Mines/2018, Dated: 26.10.2018.	
18.	Mining Plan approved by the Deputy Director, Dept. of Geology and Mining with date	:	Roc.No.43/Mines/2023, Dated: 07.02.2023.	
19.	500m cluster letter issued by the Deputy Director, Dept.of Geology and Mining with date	:	Rc.No.43/Mines/2023, Dated: 22.02.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated: 21.02.2023.	
21.	Project Cost (excluding EMP cost)	:	Rs. 45,25,000/-	
22.	EC Recommendation	:	Validity	30 years (or) Max Years as approved by the Competent Authority subject to the following upper limits. Rough Stone Gravel


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		:	Max Total RoM in m ³	2,23,860	10,962
		:	Annual Max RoM in m ³	49,465	10,962
		:	Max Depth in mtrs	42m BGL	2m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital Cost: Rs.31,84,548/- Recurring Cost: Rs.17,50,610/-		
24.	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-		

The Committee carefully reviewed/re-appraised the EC dated. 02.11.2018 issued by DEIAA. Based on the presentation and documents furnished by the project proponent, after detailed deliberations, **SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 2,23,860m³ of Rough Stone & 10,962m³ of Gravel with maintaining an ultimate depth of 42m Below ground level and the annual peak production of not exceeding 49,465m³ of rough stone & 10,962m³ of gravel**, subject to the standard conditions as per the Annexure 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 inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) 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.


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- 5) Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Salem. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.
- 6) 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.
- 7) 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.
- 8) 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.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10) 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.
- 11) 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.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.


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- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) 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.
- 15) 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.
- 16) 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.
- 17) 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.
- 18) 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.
- 19) **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.

- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 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.
- 21) 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.
- 22) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain PRIOR permission from the Director of Mines Safety, DGMS, Chennai Region and a copy of the same shall be sent to the concerned AD (Mines), the DEE/TNPCB and the IRO/MoEF, Chennai without fail.
- 23) 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.
- 24) Within six months from the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Impacts of the blasting operations carried out in the mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories 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.


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- 25) The Project Proponent shall furnish the conceptual slope stability action plan approved by the concerned AD (Mines) for the planned systematic working by maintaining appropriate benches incorporating the haul road with proper gradient in the worked out pit, before obtaining CTO from TNPCB.
- 26) **As the ultimate depth in this case exceeded 40m**, 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 any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM-Bengaluru, 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.
- 27) 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.
- 28) 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.
- 29) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 30) 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.
- 31) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.

- 32)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.
- 33)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.
- 34)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.
- 35)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.
- 36)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.
- 37)The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and the permitted Annual Peak production capacity.
- 38)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.


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

40) 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.

41) 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.

42) 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.

43) As accepted by the Project Proponent the CER cost of **Rs.5 lakhs** and the amount shall be spent for the Panchayat Union Primary School, Athipalayam before obtaining CTO from TNPCB.

Agenda No: 376-06

(File No: 9875/2023)

Proposed Rough Stone & Gravel quarry Lease over an extent of 1.11.00 Ha at S.F.No. 66/1 of Thakkolam Village, Arakkonam Taluk, Ranipet District, Tamil Nadu by M/s. Sun Minerals – For Environmental Clearance. (SIA/TN/MIN/419836/2023 dated.25.02.2023)

The proposal was placed for appraisal in this 376th meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are available on the website (parivesh.nic.in).

The SEAC noted the following:


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1. The Project Proponent, **M/s. Sun Minerals** has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 1.11.00 Ha at S.F.No. 66/1 of Thakkolam Village, Arakkonam Taluk, Ranipet District, Tamil Nadu
2. The project/activity is covered under Category "B2" of item 1(a) "Mining of Minerals Project" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:

File No		9875		Categor y	1(a)	
		SIA/TN/MIN/419836/2023			B2	
Sl. No		Salient Features of the Proposal				
1.		Name of the Owner/Firm	:	M/s. Sun Minerals, Thiru. R.K. Leelakrishnan (Managing Partner) S/o. R.D. Krishnan, No.2/260, Pillaiyar Kovil Street, Seyyoor Village and Post, Arakkonam Taluk, Ranipet District – 631 004.		
2.		Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry		
3.		S.F Nos. of the quarry site with area break-up	:	66/1		
4.		Village in which situated	:	Thakkolam		
5.		Taluk in which situated	:	Arakkonam		
6.		District in which situated	:	Ranipet		
7.		Extent of quarry (in ha.)	:	1.11.0ha		
8.		Latitude & Longitude of all corners of the quarry site	:	13°02'06.38"N to 13°02'10.54"N 79°43'37.08"E to 79°43'41.94"E		
9.		Topo Sheet No.	:	57 O/12		
10.		Type of mining	:	Opencast Semi mechanized Mining		
11.		Life of Project	:	5 years		
		Lease Period	:	5 years		
		Mining Plan Period	:	5 years		


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12.	Mining Plan Details	:	<u>As per approved Mining Plan</u>	<u>As modified by SEAC</u>
	Geological Resources m ³ (RoM)	:	Rough Stone – 1,87,136	Rough Stone – 1,87,136
			Gravel – 33,024	Gravel – 33,024
			Weathered rock – 33,024	Weathered rock – 33,024
	Minal Resources m ³ (RoM)	:	Rough Stone – 47,188	Rough Stone – 47,188
			Gravel – 22,440	Gravel – 22,440
			Weathered rock – 17,400	Weathered rock – 17,400
	Annual Peak Production in m ³	:	Rough Stone – 10,300	Rough Stone – 10,300
			Gravel - 8364	Gravel - 8364
			Weathered rock - 6264	Weathered rock - 6264
	Maximum Depth in meters	:	23m BGL	23m BGL
13.	Depth of water table	:	55m BGL	
14.	Man Power requirement per day:	:	21 Nos.	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	3.0 KLD 1.5 KLD 1.0 KLD 0.5 KLD	
16.	Power requirement	:	No electricity is required.	
17.	Precise area communication approved by Assistant Director(i/c), Dept. of G&M with date	:	Rc.No.167/2022(Mines), Dated: 30.12.2022.	
18.	Mining Plan approved by the Assistant Director (i/c), Dept. of Geology and Mining with date	:	Rc.No,167/2022(Mines), Dated: 18.01.2023.	

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19.	500m cluster letter issued by the Assistant Director (i/c), Dept. of Geology and Mining with date		Rc.No,167/2022(Mines), Dated: 18.01.2023.
20.	VAO Certificate Regarding Structures within 300m Radius		Furnished
21.	Project Cost (excluding EMP cost)	:	Rs. 51,16,000/-
22.	EC Recommendation	:	Validity
			30 years (or) max. period as approved by the competent authority subject to the following upper limits.
			Rough Stone Gravel Weathered red rock
		:	Max Total RoM in m ³ 47,188 22,440 17,400
		:	Annual Max RoM in m ³ 10,300 8364 6264
		:	Max Depth in mtrs 23m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital Cost: Rs.15.43 lakhs Recurring Cost: Rs.12.15 lakhs
24.	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, **SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 47,188m³ of Rough Stone, 22,440m³ of Gravel & 17,400m³ of weathered rock with maintaining an ultimate depth of 23m Below ground level and the annual peak production of not exceeding 10,300m³ of rough stone, 8364m³ of gravel & 6264m³ of weathered rock, subject to the standard conditions as per the Annexure 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


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a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.

- 2) 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.
- 3) 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.
- 4) 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.
- 5) Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Salem. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.
- 6) 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.
- 7) 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.
- 8) 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.

- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10) 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.
- 11) 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.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) 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.
- 15) 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.
- 16) 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.
- 17) 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.


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- 18) 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.
- 19) **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.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 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.
- 21) 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.
- 22) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain PRIOR permission from the Director of Mines Safety, DGMS, Chennai Region and a copy of the same shall be sent to the concerned AD (Mines), the DEE/TNPCB and the IRO/MoEF, Chennai without fail.
- 23) 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.

- 24) 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.
- 25) Within one year from the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Impacts of the blasting operations carried out in the mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories 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.
- 26) The Project Proponent shall furnish the conceptual slope stability action plan approved by the concerned AD (Mines) for the planned systematic working by maintaining appropriate benches incorporating the haul road with proper gradient in the worked out pit, before obtaining CTO from TNPCB.
- 27) The PP shall ensure that the following provisions are provided due to the existence of Reserved Forest/Reserve Land at a distance of less than 1km from the project site:
- i. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
 - ii. 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.


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- iii. 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.
- iv. 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.
- v. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
- vi. 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.
- vii. 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 placed within the lease hold area ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
- viii. 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.
- ix. 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.
- x. 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.

- xi. 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.
- xii. 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 / areas with a high degree of erosion on forestland.
- xiii. 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.
- xiv. The PP shall not use plastic carry bags within the quarry area.
- xv. 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.

28) 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.

29) 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.

30) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.

31) 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.

- 32)The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 33)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.
- 34)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.
- 35)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.
- 36)The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled 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.
- 37)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.
- 38)The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and its permitted annual peak production capacity.
- 39)All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Pre-tise



area communication letter issued by concerned District Collector should be strictly followed.

- 40) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 41) 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.
- 42) 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.
- 43) 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.
- 44) As accepted by the Project Proponent the CER cost of **Rs.5 lakhs** and the amount shall be spent for the Panchayat Union Primary School, Thakolam Village before obtaining CTO from TNPCB.

Agenda No: 376-07

(File No: 9882/2023)

Proposed Lime Kankar quarry lease area over an extent of 294.18.5 Ha at S.F.No. Parts of 208 to 229, 232 to 235, 246 to 248, 253, 259 to 283, 287, 288, 290 to 298, 546, 547, 554 to 569, 571 to 575, 577 to 579, 581, 583 to 587, 589, 592, 603, 605 to 612 of Therku Koppuchitampatti Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by M/s. The Ramco Cements Limited - For Environmental Clearance. (SIA/TN/MIN/420107/2023, Dated: 01.03.2023)

The proposal was placed for appraisal in this 376th meeting of SEAC held on


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05.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. The Ramco Cements Limited has applied for Environmental Clearance for the Proposed Lime Kankar quarry lease area over an extent of 294.18.5 Ha at S.F.No. Parts of 208 to 229, 232 to 235, 246 to 248, 253, 259 to 283, 287, 288, 290 to 298, 546, 547, 554 to 569, 571 to 575, 577 to 579, 581, 583 to 587, 589, 592, 603, 605 to 612 of Therku Koppuchitampatti Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 10 years. The production for first five years is RoM – 36,79,500m³ of Lime Kankar and 2,00,000 m³ of Clay for an ultimate depth of Mining 3m BGL.
4. Terms of Reference issued by MoEF&CC vide F.No. J-11015/41/2019-IA.II (M) Dated: 16.05.2019 and subsequently had conducted public hearing on 02.12.2022.

Based on the presentation and document furnished by the proponent, the PP has requested to defer the proposal until the transfer of file from the EAC which had issued the ToR under the provisions of MoEF Guidelines.

The SEAC will deliberate on the proposal after hearing from the PP.

Agenda No: 376 - 08

(File No: 9883/2023)

Proposed Lime Kankar quarry over an extent of 498.87.0 Ha in SF.No. parts of 14, 15, 19 to 22, 30 to 33, 40, 41, 43, 44, 54, 55, 56, 58, 59, 62, 63, 65, 66, 79, 80, 84, 86 to 91, 93 to 101, 103 to 109, 111 to 122, 124, 130, 202, 205 to 218, 222 to 224, 227 to 229, 232 to 240, 244 to 248, 253 to 257, 263, 295 to 305, 340 at Suddhamadam Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by M/s.The Ramco Cements Limited - For Environmental Clearance. (SIA/TN/MIN/419642/2023,Dt.27.02.2023)

The proposal was placed in the 376th SEAC Meeting held on 06.05.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).


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The SEAC noted the following:

1. The Project Proponent, M/s. The Ramco Cements Limited has applied for Environmental Clearance for the Proposed Lime Kankar quarry over an extent of 498.87.0 Ha in SF.No. parts of 14, 15, 19 to 22, 30 to 33, 40, 41, 43, 44, 54, 55, 56, 58, 59, 62, 63, 65, 66, 79, 80, 84, 86 to 91, 93 to 101, 103 to 109, 111 to 122, 124, 130, 202, 205 to 218, 222 to 224, 227 to 229, 232 to 240, 244 to 248, 253 to 257, 263, 295 to 305, 340 of Suddhamadam Village, Aruppukottai Taluk, Virudhunagar 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. ToR Issued vide Letter MoEF&CC F.No.J- 11015/39/2019.IA.II(M) dated 15.05.2019.
4. Public hearing conducted on 01.12.2022.

The SEAC noted,

- (i) Earlier, the PP has filed ToR application to MoEF and the proposal was deliberated in 4th EAC meeting held during 23-24.04.2019 and ToR was granted dated 15.05.19.
- (ii) Now the PP has applied for EC to SEIAA, TN based on notification SO 1886(E) dated 20.04.2022.

Based on the presentation and document furnished by the proponent, the PP has requested to defer the proposal until the transfer of file from the EAC which had issued the ToR under the provisions of MoEF Guidelines.

The SEAC will deliberate on the proposal after hearing from the PP.

Agenda No: 376-09

(File No: 9884/2023)

Proposed Rough Stone and Gravel lease area over an extent of Extent 1.31.0 Ha at S.F.No. 181/1B, 181/1C, 181/1D, 181/1E & 182/7B of Mallakottai Village, Singampunari Taluk, Sivagangai District, Tamil Nadu by Thiru. A. Megavarnam,- For Environmental Clearance. (SIA/TN/MIN/420894/2023, Dated: 04.03.2023)

The proposal was placed for appraisal in this 376th meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The project proponent, Thiru. A. Megavarnam has applied for Environmental Clearance for the proposed Rough Stone and Gravel lease area over an extent of Extent 1.31.0 Ha at S.F.No. 181/1B, 181/1C, 181/1D, 181/1E & 182/7B of Mallakottai Village, Singampunari 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. As per the mining plan, the lease period is for 5 year. The production for 5 year not to exceed 1,21,508 m³ of Rough Stone & 400 m³ of gravel to an ultimate depth of Mining 40m BGL.

File No	9884 / 2023	Category	1(a) - B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. A. Megavarnam, S/o. Alagappan, No. 573, Mallakottai, Singampunari Taluk, Sivagangai District - 630 566.
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	:	181/1B, 181/1C, 181/1D, 181/1E & 182/7B
4.	Village in which situated	:	Mallakottai
5.	Taluk in which situated	:	Singampunari
6.	District in which situated	:	Sivagangai
7.	Extent of quarry (in ha.)	:	1.31.0
8.	Latitude & Longitude of all corners of the quarry site	:	10°02'11.19"N to 10°02'14.97"N 78°27'55.38"E to 78°28'00.87"E
9.	Topo Sheet No.	:	58-J/08
10.	Type of mining	:	Opencast Mechanized Mining
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years

12.	Mining Plan Details	:	As per approved Mining Plan		As modified by SEAC	
	Geological Resources m ³ (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
			4,53,420 m ³	400 m ³	4,53,420 m ³	400 m ³
	Mina ble Resources m ³ (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
			1,21,508 m ³	-	1,21,508 m ³	-
	Annual Peak Production in m ³	:	Rough Stone	Gravel	Rough Stone	Gravel
			27,370 m ³	-	27,370 m ³	-
Maximum Depth in meters	:	40m bgl		40m bgl		
13.	Depth of water table	:	70m-65m			
14.	Man Power requirement per day:	:	15 Nos.			
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.0 KLD 0.2 KLD - 0.5 KLD 0.3 KLD			
16.	Power requirement	:	97,200 Liters of HSD			
17.	Precise area communication approved by the Department of G&M.	:	Na.Ka.No.06/Kanimam/2022, Dated: 28.11.2022			
18.	Mining Plan approved by Department of G&M.	:	Rc.No.06/Mines/2020, Dated: 18.01.2023			
19.	Department of G&M, Deputy Director500m Cluster Letter	:	Rc.No.06/Mines/2020, Dated: 25.01.2023			
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 30.01.2023			
21.	Project Cost (excluding EMP cost)	:	Rs. 23,30,000/-			
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.		
				Rough Stone	Gravel	

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		:	Max Total RoM in m ³	1,21,508 m ³	-
		:	Annual Max RoM in m ³	27,370 m ³	-
		:	Max Depth in mtrs	40m bgl	
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 21,70,700/- Recurring Cost – Rs. 13,96,441/-		
24.	CER cost (in Rs. Lakh).	:	Rs. 5 lakhs Amount of Rs. 5.0 lakhs shall be spent for mitigation measures in consultation with DFO, Sivagangai as a part of CER.		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal (as per Sl.No. 22) for the grant of Environmental Clearance 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 inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 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 six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Salem. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.

- 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 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.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) 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.
- 10) 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.
- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 13) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out


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during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.

- 14) 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.
- 15) 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.
- 16) 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.
- 17) 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.
- 18) **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.
- 19) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 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.

- 20) 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.
- 21) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain PRIOR permission from the Director of Mines Safety, DGMS, Chennai Region and a copy of the same shall be sent to the concerned AD (Mines), the DEE/TNPCB and the IRO/MoEF, Chennai without fail.
- 22) 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.
- 23) Within six months from the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Impacts of the blasting operations carried out in the mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories 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.
- 24) The Project Proponent shall furnish the conceptual slope stability action plan approved by the concerned AD (Mines) for the planned systematic working by maintaining appropriate benches incorporating the haul road with proper gradient in the worked out pit, before obtaining CTO from TNPCB..


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- 25) 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.
- 26) 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.
- 27) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 28) 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.
- 29) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 30) 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.
- 31) 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.
- 32) 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.


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- 33)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.
- 34)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.
- 35)The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and the permitted Annual Peak production capacity. If any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 36)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.
- 37)That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 38)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.


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39) 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.

40) 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.

41) As accepted by the Project proponent in lieu of the CER, the amount of Rs. 5.0 lakhs shall be spent for mitigation measures in Vettangudi Bird sanctuary consultation with DFO, Sivangai, before obtaining CTO from TNPCB.

Agenda No: 376-10

(File No: 9864/2023)

Proposed Rough Stone and Gravel lease area over an extent of Extent 1.41.5 Ha at S.F.No. 26/2 (P), 27/3 (P) & 28 (P) of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru.R.Kandasamy,- For Environmental Clearance. (SIA/TN/MIN/419810/2023, dt: 25.02.2023)

The proposal was placed for appraisal in this 376th meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.R.Kandasamy has applied for Environmental Clearance for the proposed Rough Stone and Gravel lease area over an extent of Extent 1.41.5 Ha at S.F.No. 26/2 (P), 27/3 (P) & 28 (P) of Kuppam Village, Pugalur Taluk, Karur 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. As per the mining plan, the lease period is for 5 year. The production for 5 year not to exceed 27085 m³ of Rough Stone & 966 m³ of gravel to an ultimate depth of Mining 26m BGL.


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File No		9864/2023		Category	1(a)	
		Online Proposal: Proposal No.SIA/TN/MIN/419810/2023, dt: 25.02.2023			B2	
Sl. No	Salient Features of the Proposal					
1.	Name of the Owner/Firm	:	Thiru.R.Kandasamy, S/o.Rasappagounder, Velliyampalayam, Punnamchatram, Pugalur Taluk, Karur District - 639136			
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel			
3.	S.F Nos. of the quarry site with area break-up	:	26/2 (P), 27/3 (P) & 28 (P)			
4.	Village in which situated	:	Kuppam			
5.	Taluk in which situated	:	Pugalur			
6.	District in which situated	:	Karur			
7.	Extent of quarry (in ha.)	:	1.41.5Ha			
8.	Latitude & Longitude of all corners of the quarry site	:	11°00'31.07"N to 11°00'36.33"N 77°58'13.16"E to 77°58'18.04"E			
9.	Topo Sheet No.	:	58- E/16			
10.	Type of mining	:	Opencast Mechanized of 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		Gravel	
			345433 m ³		2272 m ³	
	Minable Resources m ³ (RoM)	:	Rough Stone		Gravel	
			77042 m ³		966 m ³	
	Annual Peak Production in m3	:	Rough Stone		Gravel	
5705 m ³			966 m ³			
	Maximum Depth in meters	:	31 m BGL			
13.	Depth of water table	:	63m-68m			
14.	Man Power requirement per day:	:	30 Nos.			

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15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.0 KLD 0.3 KLD 0.5 KLD 0.2 KLD														
16.	Power requirement		TNEB														
17.	Precise area communication approved by the Department of G&M.	:	Rc.No.271/Kanimam/2022, dt: 28.10.2022														
18.	Mining Plan approved by Department of G&M.	:	Rc.No.271/Mines/2022, dt: 15.12.2022														
19.	Department of G&M, Deputy Director500m Cluster Letter		Rc.No.271/Mines/2022, dt: 30.12.2023														
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dt: 24.11.2022														
21.	CCR by IRO,MoEF&CC		Letter dt: 29.03.2023														
22.	Project Cost (excluding EMP cost)	:	Rs.33.28 Lakhs														
23.	EC Recommendation		<table><tr><td rowspan="2">Validity</td><td colspan="2">5 Years subject to the following upper limits.</td></tr><tr><td>Rough Stone</td><td>Gravel</td></tr><tr><td>Max Total RoM in m³</td><td>27085 m³</td><td>966m³</td></tr><tr><td>Annual Max RoM in m³</td><td>5705 m³</td><td>966m³</td></tr><tr><td>Max Depth in mtrs</td><td colspan="2">26m</td></tr></table>	Validity	5 Years subject to the following upper limits.		Rough Stone	Gravel	Max Total RoM in m³	27085 m³	966m³	Annual Max RoM in m³	5705 m³	966m³	Max Depth in mtrs	26m	
Validity	5 Years subject to the following upper limits.																
	Rough Stone	Gravel															
Max Total RoM in m³	27085 m³	966m³															
Annual Max RoM in m³	5705 m³	966m³															
Max Depth in mtrs	26m																
24.	EMP cost (in Rs. Lakh).	:	Rs.82.844 Lakhs/ 5 Years														
25.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs														

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal (as per Sl.No 23) for the grant of Environmental Clearance 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 inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Pandalgudi. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.
- 4) 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.
- 5) 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.
- 6) 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


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channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.

- 7) 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.
- 8) 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.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10) 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.
- 11) 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.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) 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.
- 15) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate


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noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.

- 16) 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.
- 17) 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.
- 18) 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.
- 19) **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.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 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.
- 21) 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.

- 44) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain PRIOR permission from the Director of Mines Safety, DGMS, Chennai Region and a copy of the same shall be sent to the concerned AD (Mines), the DEE/TNPCB and the IRO/MoEF, Chennai without fail.
- 45) 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.
- 46) Within six months from the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Impacts of the blasting operations carried out in the mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal - Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories 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.
- 22) The Project Proponent shall furnish the conceptual slope stability action plan approved by the concerned AD (Mines) for the planned systematic working by maintaining appropriate benches incorporating the haul road with proper gradient in the worked out pit, before obtaining CTO from TNPCB.
- 23) 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.
- 24) 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.

- 25) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 26) 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.
- 27) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 28) 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.
- 29) 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.
- 30) 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.
- 31) 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.


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- 32)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.
- 33)The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and the permitted Annual Peak production capacity. If any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 34)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.
- 35)That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 36)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.
- 37)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.

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

39)As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Panchayat Union Primary School, Punnamsathiram Village, K.Paramathi Union, Karur District as committed, before obtaining CTO from TNPCB.

Agenda No: 376-11

(File No: 9871/2023)

Proposed Gravel lease area over an extent of Extent 1.00.0 Ha at S.F.No. 157 of Valaiyapatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu by Thiru.K.Ramamoorthy- For Environmental Clearance. (SIA/TN/MIN/420299/2023, dt:28.02.2023)

The proposal was placed for appraisal in this 376th meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.K.Ramamoorthy has applied for Environmental Clearance for the proposed Gravel lease area over an extent of Extent 1.00.0 Ha at S.F.No. 157 of Valaiyapatti Village, Vadipatti Taluk, Madurai 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. As per the mining plan, the lease period is for 2 year. The production for 2 years not to exceed 13514 m³ of gravel to an ultimate depth of Mining 2m BGL.

File No	9871/2023	Category	1(a)
	Online Proposal: SIA/TN/MIN/420299/2023, dt:28.02.2023		B2
Sl. No	Salient Features of the Proposal		


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1.	Name of the Owner/Firm	:	Thiru.K.Ramamoorthy, S/o.B.Kamatchi, No.4-5/26, Bharathithasan Street, Kalaivanar Naga, Kallanai Village Alanganallur Taluk, Madurai District – 625 501
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Gravel
3.	S.F Nos. of the quarry site with area break-up	:	157
4.	Village in which situated	:	Valaiyapatti
5.	Taluk in which situated	:	Vadipatti
6.	District in which situated	:	Madurai
7.	Extent of quarry (in ha.)	:	1.00.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°10'6.1301"N to 10°10'4.8184"N 78°07'42.2479"E to 78°07'38.2686"E
9.	Topo Sheet No.	:	58– J/4
10.	Type of mining	:	Opencast method of Shallow 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)	:	20480 m ³
	Minable Resources m ³ (RoM)	:	13514 m ³
	Annual Peak Production in m ³	:	7260 m ³
	Maximum Depth in meters	:	2 m BGL
13.	Depth of water table	:	34m
14.	Man Power requirement per day:	:	9 Nos.
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.45 KLD 0.45 KLD 0.5 KLD 0.5 KLD
16.	Power requirement	:	TNEB

17.	Precise area communication approved by the Department of G&M.	:	Rc.No.623/Kanimam/2020, dt: 27.01.2023
18.	Mining Plan approved by Department of G&M.	:	Rc.No.623/Mines/2020, dt: 07.02.2023
19.	Department of G&M, Deputy Director 500m Cluster Letter	:	Rc.No.623/Mines/2020, dt: 07.02.2023
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dt: 13.02.2023
21.	Soil Test Report	:	Anna University, Dindigul Dt:13.09.2021
22.	Project Cost (excluding EMP cost)	:	Rs.21.15 Lakhs
23.	EC Recommendation	:	Validity
		:	2 years subject to the following upper limits.
		:	Gravel
		:	Max Total RoM in m ³
		:	13514 m ³
		:	Annual Max RoM in m ³
		:	7260 m ³
		:	Max Depth in mtrs
		:	2 m BGL
24.	EMP cost (in Rs. Lakh).	:	Rs.15.84 Lakhs/ 2Years
25.	CER cost (in Rs. Lakh).	:	Rs. 5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend (as per Sl No. 23) the proposal for the grant of Environmental Clearance 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.

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2. The mine manager and other statutory competent persons shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952.
3. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy.
4. The Project Proponent shall develop the Green belt activities (tree plantations of two to three rows) in the safety zone as stipulated in the Mining Plan around the periphery of the proposed quarry lease before obtaining the CTO from the TNPCB.
5. The Project Proponent shall not carry out blasting operations.
6. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
7. The PP shall ensure that the transport vehicles used in the quarry are adequately covered with tarpaulin before it is allowed to enter into the adjacent village panchayat road.
8. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m 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.
9. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
10. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.


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11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
12. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
13. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
14. As accepted by the Project proponent the CER cost is Rs. 5lakhs and the amount shall be spent for the Government Higher Secondary School, Chatravellalpatti as committed, before obtaining CTO from TNPCB.

Agenda No: 376-12

(File No: 9878/2023)

Proposed Rough Stone & Gravel lease area over an extent of Extent 3.00.0 Ha at S.F.No. 762/3C2A (P) of Sivagalai Village, Eral Taluk, Thoothukudi District, Tamil Nadu by Thiru.S.Magesh - For Environmental Clearance. (SIA/TN/MIN/420208/2023, dt: 07.03.2023)

The proposal was placed for appraisal in this 376th meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Thiru.S.Magesh has applied for Environmental Clearance for the proposed Rough Stone & Gravel lease area over an extent of Extent 3.00.0 Ha at S.F.No. 762/3C2A (P) of Sivagalai Village, Eral Taluk, Thoothukudi 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. As per the mining plan, the lease period is for 5 year. The production for 5 years not to exceed 377825 m³ of Rough stone and 118755 m³ gravel to an ultimate depth of Mining 40m BGL.


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File No	9878/2023		Category	1(a)
	Online Proposal: Proposal No. SIA/TN/MIN/420208/2023, dt: 07.03.2023			B2
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.S.Magesh, S/o.D.Sridharan D.No.38, Collector Nagar 1 st Street, Anna Nagar West Extension, Chennai – 600101, Tiruvallur District	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel	
3.	S.F Nos. of the quarry site with area break-up	:	762/3C2A (P)	
4.	Village in which situated	:	Sivagalai	
5.	Taluk in which situated	:	Eral	
6.	District in which situated	:	Thoothukudi	
7.	Extent of quarry (in ha.)	:	3.0.00Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	08°39'16.60"N to 08°39'26.87"N 77°57'59.46"E to 77°58'07.13"E	
9.	Topo Sheet No.	:	58- H/14	
10.	Type of mining	:	Opencast Semi-Mechanized of 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	Gravel
			1055600 m ³	150800 m ³
	Minalable Resources m ³ (RoM)	:	Rough Stone	Gravel
			377825 m ³	118755 m ³
	Annual Peak Production in m3	:	Rough Stone	Gravel
75825 m ³			35235 m ³	
Maximum Depth in meters	:	40 m BGL		
13.	Depth of water table	:	60m	

14.	Man Power requirement per day:	:	15Nos.															
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	9.0 KLD 1.0 KLD 4.0 KLD 4.0 KLD															
16.	Power requirement		TNEB															
17.	Precise area communication approved by the Department of G&M.	:	Rc.No.G.M.1/770/2019, dt: 17.11.2022															
18.	Mining Plan approved by Department of G&M.	:	Rc.No.G.M.1/770/2019, dt: 19.12.2022															
19.	Department of G&M, Deputy Director500m Cluster Letter		Rc.No.G.M.1/770/2019, dt: 19.12.2023															
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dt: 07.12.2022															
21.	DFO Letter		Letter dt: 13.12.2022															
22.	Project Cost (excluding EMP cost)	:	Rs.98.44 Lakhs															
23.	EC Recommendation		<table><tr><td rowspan="2">Validity</td><td colspan="2">5 Years subject to the following upper limits.</td></tr><tr><td>Rough Stone</td><td>Gravel</td></tr><tr><td>Max Total RoM in m³</td><td>377825 m³</td><td>118755 m³</td></tr><tr><td>Annual Max RoM in m³</td><td>75825 m³</td><td>35235 m³</td></tr><tr><td>Max Depth in mtrs</td><td colspan="2">40m BGL</td></tr></table>		Validity	5 Years subject to the following upper limits.		Rough Stone	Gravel	Max Total RoM in m ³	377825 m ³	118755 m ³	Annual Max RoM in m ³	75825 m ³	35235 m ³	Max Depth in mtrs	40m BGL	
Validity	5 Years subject to the following upper limits.																	
	Rough Stone	Gravel																
Max Total RoM in m ³	377825 m ³	118755 m ³																
Annual Max RoM in m ³	75825 m ³	35235 m ³																
Max Depth in mtrs	40m BGL																	


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24	EMP cost (in Rs. Lakh).	:	Rs.116.5 Lakhs/ 5 Years
25	CER cost (in Rs. Lakh).	:	Rs.7 Lakhs including Rs.5 Lakhs to DFO, Thoothukudi towards conservation measure for Vallanadu Black Buck Sanctuary & Committed activities in Govt School – 2 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend (as per SI No. 23) the proposal for the grant of Environmental Clearance 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 inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Pandalgudi. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN
- 4) 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.
- 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



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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 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.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) 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.
- 10) 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.
- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 13) 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.
- 14) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate


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noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.

- 15) 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.
- 16) 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.
- 17) 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.
- 18) **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.
- 19) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 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.
- 20) 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.

- 21) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain PRIOR permission from the Director of Mines Safety, DGMS, Chennai Region and a copy of the same shall be sent to the concerned AD (Mines), the DEE/TNPCB and the IRO/MoEF, Chennai without fail.
- 22) 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.
- 23) Within six months from the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Impacts of the blasting operations carried out in the mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories 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.
- 24) The Project Proponent shall furnish the conceptual slope stability action plan approved by the concerned AD (Mines) for the planned systematic working by maintaining appropriate benches incorporating the haul road with proper gradient in the worked out pit, before obtaining CTO from TNPCB.
- 25) As the ultimate depth in this case exceeded 40m, 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 any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM-Bengaluru, IIT-Madras, NIT-Dept of Mining Engg, Surathkal.


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- 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
- 26) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 27) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.
- 28) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.


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- 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 (TNPCE) 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 the permitted Annual Peak production capacity. If any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 37)All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 38)That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 39)As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for


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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.

42) As accepted by the Project proponent the CER cost is Rs. 7 lakhs and the amount Rs.2 Lakhs shall be spent for the Government School, Perukulam Village & Rs. 5 Lakhs to DFO, Thoothukudi towards conservation measure for Vallanadu Black Buck Sanctuary as committed, before obtaining CTO from TNPCB.

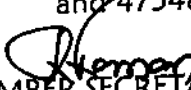
Agenda No: 376-13

(File No: 9885/2023)

Proposed Rough Stone & Gravel lease area over an extent of Extent 2.88.2 Ha at S.F.No. 838 (P) of Pudupatti Part -2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu by M/s. Kairali Blue Metals, - For Environmental Clearance. (SIA/TN/MIN/420884/2023, dt: 04.03.2023)

The proposal was placed for appraisal in this 376th meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, M/s. Kairali Blue Metals has applied for Environmental Clearance for the proposed Rough Stone & Gravel lease area over an extent of Extent 2.88.2 Ha at S.F.No. 838 (P) of Pudupatti Part -2 Village, Alangulam Taluk, Tenkasi 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. As per the mining plan, the lease period is for 10 years. The production for 5 years not to exceed 472360 m³ of Rough stone, 45028 m³ weathered rock and 47548 m³ gravel to an ultimate depth of Mining 39m BGL.


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File No	9885/2023		Category	1(a) – B2	
	Online Proposal: SIA/TN/MIN/420884/2023, dt: 04.03.2023			EC	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	M/s. Kairali Blue Metals, Rep.by its Managing Partner Thiru.R.S.Binu, Meleplavila Veedu, No.6/639A, Near Guru Mandiram, Cherikonam, Kannanalloor Post, Kollam, Kerala - 691576		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel		
3.	S.F Nos. of the quarry site with area break-up	:	838 (P)		
4.	Village in which situated	:	Pudupatti Part -2		
5.	Taluk in which situated	:	Alangulam		
6.	District in which situated	:	Tenkasi		
7.	Extent of quarry (in ha.)	:	2.88.2Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	8°48'3.5677"N to 8°47'56.2831"N 77°30'6.4521"E to 77°30'2.7707"E		
9.	Topo Sheet No.	:	58– H/9		
10.	Type of mining	:	Opencast Semi-Mechanized of Mining		
11.	Life of Project	:	10 Years		
	Lease Period	:	10 Years		
	Mining Plan Period	:	5 Years		
12.	Mining Plan Details	:	As per approved Mining Plan		
	Geological Resources m ³ (RoM)	:	Rough Stone	Weathered Rock	Gravel
			973455 m ³	55626 m ³	55626m ³
	Minalable Resources m ³ (RoM)	:	Rough Stone	Weathered Rock	Gravel
			47236 0 m ³	45028 m ³	47548 m ³
Annual Peak Production in m3	:	Rough Stone	Weathered Rock	Gravel	

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			130540 m ³	45028 m ³	47548 m ³	
	Maximum Depth in meters	:	39 m BGL			
13.	Depth of water table	:	55m			
14.	Man Power requirement per day:	:	15 Nos.			
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.675 KLD 0.675 KLD 0.5 KLD 0.5 KLD			
16.	Power requirement		TNEB			
17.	Precise area communication approved by the Department of G&M.	:	Rc.No.M1/3084/2021, dt: 30.12.2022			
18.	Mining Plan approved by Department of G&M.	:	Rc.No.M1/3084/2021, dt: 31.01.2023			
19.	Department of G&M, Deputy Director 500m Cluster Letter		Rc.No.M1/3084/2021, dt: 31.01.2023			
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dt: 13.02.2023			
21.	Project Cost (excluding EMP cost)	:	Rs.57.45 Lakhs			
22.	EC Recommendation	:	Validity	5 years subject to the following upper limits.		
			Rough Stone	Weathered Rock	Gravel	
		:	Max Total RoM in m ³	472360 m ³	45028 m ³	47548 m ³
		:	Annual Max RoM in m ³	130540 m ³	45028 m ³	47548m ³
		:	Max Depth in mtrs	39 m BGL		
23.	EMP cost (in Rs. Lakh).	:	Rs.334 Lakhs/ 10Years			

24.	CER cost (in Rs. Lakh).	:	Rs. 5 Lakhs
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend (as per Sl.No. 22) the proposal for the grant of Environmental Clearance 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 inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) 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.
- 5) Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Salem. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.
- 6) 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


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channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.

- 7) 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.
- 8) 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.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10) 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.
- 11) 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.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) 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.
- 15) 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


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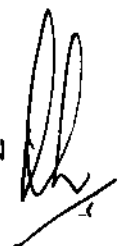


level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.

- 16) 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.
- 17) 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.
- 18) 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.
- 19) 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.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 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.
- 21) 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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- 22) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain PRIOR permission from the Director of Mines Safety, DGMS, Chennai Region and a copy of the same shall be sent to the concerned AD (Mines), the DEE/TNPCB and the IRO/MoEF, Chennai without fail.
- 23) 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.
- 24) Within six months from the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Impacts of the blasting operations carried out in the mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories 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.
- 25) The Project Proponent shall furnish the conceptual slope stability action plan approved by the concerned AD (Mines) for the planned systematic working by maintaining appropriate benches incorporating the haul road with proper gradient in the worked out pit, before obtaining CTO from TNPCB.
- 26) As the ultimate depth in this case exceeded 40m, 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 any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM-Bengaluru, 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.

- 27) 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.
- 28) 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.
- 29) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 30) 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.
- 31) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 32) 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.
- 33) 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.


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- 34) 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.
- 35) 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.
- 36) 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.
- 37) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and the permitted Annual Peak production capacity. If any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 38) 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.
- 39) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 40) 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.

- 41) 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.
- 42) 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.
- 43) As accepted by the Project proponent the CER cost is Rs.5 lakhs and the amount shall be spent for the Government High School, Kasinathapuram as committed, before obtaining CTO from TNPCB.

Agenda No: 376-14


(File No: 9865/2023)

Proposed Rough stone & Gravel Quarry over an Extent of 1.57.82 Ha at S.F.No. 38/1A1B(P) of Pappakudi part 1 Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu by Thiru. R. Vijayakumaran Nair -For Environmental Clearance (SIA/TN/MIN/419431/2023, 22.02.2023).

The proposal was placed in this 376th Meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. R. Vijayakumaran Nair has applied for Environmental Clearance for the Proposed Rough stone & Gravel Quarry over an Extent of 1.57.82 Ha at S.F.No. 38/1A1B(P) of Pappakudi part 1 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.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of Five years & production should not exceed 2,36,640m³ of Rough Stone & 33,644m³ of Gravel. The annual peak production is 61,745m³ of Rough Stone & 18,720m³ of Gravel. The ultimate depth is 34m.


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(2m Gravel+2m Weathered Rock + 30m Rough Stone).

During the appraisal, the SEAC had observed the following:

1. The Solar Panel Power units are situated at a distance of 278 m from the boundary of proposed quarry, i.e., in the **Extremely Sensitive Zone** considering the risk from the flyrock due to blasting operations in the proposed quarry.
2. The proposed quarry is freshly planned in the current location where no other such quarries are operating within 1 km and the Solar Panel structure has been installed before the commencement of this quarry proposal processing.
3. The proposed quarrying operation involving blast-induced vibrations & flyrock due to rock blasting operations and dust pollution due to huge excavation & hauling operations may severely damage the existing solar panel structures.
4. Besides, this proposal attracts the following legal implications:
 - (i). Under the provisions of Tamil Nadu Minor Mineral Concession Rules, 1959, Rule 36 (1-A) (a) says

"....No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site: Provided that the exiting quarries which are subsisting under current leases shall be entitled for continuance till the expiry of the lease period. The lessees whose quarries lie within a radius of 300 metres from the inhabited site shall undertake blasting operations only after getting permission of the Director of Mines Safety, Chennai".

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

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

In view of the above reasons, the SEAC decided that not to recommend the proposal for the grant of Environmental Clearance.

Agenda No: 376-15
(File No: 9872/2023)


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Existing Quartz and feldspar mine over an Extent of 1.62.0 Ha at S.F.Nos. 1656/1(p) & 1656/2 of Pachapalayam Village, Kangayam Taluk, Tiruppur District, Tamil Nadu by Thiru. C. Karnan -For Environmental Clearance. (SIA/TN/MIN/420601/2023, dated:02.03.2023).


The proposal was placed in this 376th Meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. C. Karnan has applied for Environmental Clearance for the Existing Quartz and feldspar mine over an Extent of 1.62.0 Ha at S.F.Nos. 1656/1(p) & 1656/2 of Pachapalayam Village, Kangayam Taluk, Tiruppur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years. The mining plan is for the period of Five years & production should not exceed 11,232 Ts of ROM, 4,717 Ts of recoverable Quartz @60%, 3,145 Ts of recoverable Feldspar @40%. The annual peak production is 2340 Ts of ROM, 983 Ts of recoverable Quartz @60%, 655 Ts of recoverable Feldspar @40%. The ultimate depth is 10m (1m Top Soil+9m Quartz& Feldspar).

During the presentation, the SEAC had noted the following:

1. Quarrying in this lease area was earlier carried out by Tvl. Omega Enterprises without obtaining Environmental clearance.
2. Subsequently, Tvl. Omega Enterprises has obtained Terms of Reference under Violation from SEIAA-TN vide Lr No.SEIAA-TN/F.No.6620/TOR-534/2018 Dated: 30.07.2018 for the Existing Quartz and Feldspar Mines over an extent of 1.22.0 Ha at S.F. No. 1656/2 of Pachapalayam Village, Kangayam Taluk, Tiruppur District in the name of M/s. Omega Granites.
3. Meanwhile, the Project Proponent, Thiru. C. Karnan has submitted an application vide online proposal No. SIA/TN/MIN/420601/2023, dated:02.03.2023 to obtain Environmental Clearance for the Existing Quartz and feldspar Quarry over an Extent of 1.62.0 Ha at S.F.No. 1656/1(p) & 1656/2


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in Pachapalayam Village, Kangayam Taluk, Tiruppur District, Tamil Nadu without disclosing previous history.

Based on the deliberations and presentation by the PP, the SEAC decided to obtain the following,

1. Explanation from the EIA coordinator and PP for hiding the facts.
2. Details from the PP and EIA Coordinator on the previous history to get clarification on whether the project comes under violation or not.

On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.

Agenda No: 376-16

(File No: 9879/2023)

Proposed Rough stone, Jelly and Gravel Quarry over an Extent of 2.77.50 Ha at S.F.Nos. 138 & 150/1, 2A of Gopalapuram Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Thiru.S.Devaraj -For Environmental Clearance (SIA/TN/MIN/419831/2023, 27.02.2023).

The proposal was placed in this 376th Meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.S.Devaraj has applied for Environmental Clearance for the Proposed Rough stone, Jelly and Gravel Quarry over an Extent of 2.77.50 Ha at S.F.Nos. 138 & 150/1, 2A of Gopalapuram Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years. The mining plan is for the period of ten years & production for first 5 years should not exceed 79,142.5m³ of Rough Stone & 86,340m³ of Gravel and production for next 5 years should not exceed 1,86,025m³ of Rough Stone. The annual peak production for first 5 years is 21,875m³ of Rough Stone & for next 5 years is 40890m³ of Rough Stone. The ultimate depth is 30m.


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File No		9879	Category	1(a)-B2	
		Online No.419831		EC	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	Thiru. S. Devaraj, S/o Sri K R Subbiah, 19/29, G2, Krishnan Colony, Nerkundram Pathai, Vadapalani, Chennai. – 600 026.		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone, Jelly and Gravel		
3.	S.F Nos. of the quarry site with area break-up	:	138 & 150/1, 2A		
4.	Village in which situated	:	Gopalapuram		
5.	Taluk in which situated	:	Vembakottai		
6.	District in which situated	:	Virudhunagar		
7.	Extent of quarry (in ha.)	:	2.77.50 Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	9°21'40.8"N to 9°21'51.6"N 77°38'07.5"E to 77°38'06.5"E		
9.	Topo Sheet No.	:	58 G/11		
10.	Type of mining	:	Opencast mechanized method with drilling and blasting		
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	Gravel	
			6,94,500	1,11,120	
	Minable Resources m ³ (RoM)	:	Rough Stone	Gravel	
			2,65,167.5	86,340	
	Annual Peak Production in m ³	:	Rough Stone	Gravel	
		40890	21,758		
	Ultimate Depth in meters	:	25		
13.	Depth of water table	:	45m-50m below ground level		
14.	Man Power requirement per day:	:	10 Nos.		

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15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	3.200 KLD 1.000KLD 0.600 KLD 1.300 KLD 0.300 KLD		
16.	Power requirement	:	TNEB 77,170 liters of HSD will be utilized		
17.	Precise area communication approved by the Assistant Director, Dept. of Geology & Mining	:	KV1/695/2021-Kanimum, dated: 28.02.2022		
18.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining.	:	KV1/695/2021-Kanimum, dated: 05.04.2022		
19.	Assistant Director, Dept. of Geology & Mining 500m Cluster Letter	:	KV1/695/2021-Kanimum, dated: 05.04.2022		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 24.03.2022		
21.	Project Cost (excluding EMP cost)	:	Rs. 50,32,338 /-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
			Rough Stone	Gravel	
		:	Max Total RoM in m ³	2.65,167.5	86,340
		:	Annual Max RoM in m ³	40890	21,758
		:	Ultimate Depth in mtrs	25	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.22.55Lahks/- recurring cost – Rs. 16.68 Lahks /-		
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- as accepted by the PP		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity should not exceed 2,65,167.5m³ of Rough Stone & 86,340m³ of

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Gravel with restricting ultimate depth to 25m & annual peak production capacity of 40,890m³ of Rough Stone & 21,758m³ of Gravel, 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 mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Salem. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.
5. The proponent shall construct 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/map showing the same before obtaining the CTO from TNPCB.
6. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone


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of 7.5 m as it is designed to take care of run-off water (size, gradient and length).

7. Within one year from the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Impacts of the blasting operations carried out in the mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories 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.
8. The Project Proponent shall furnish the conceptual slope stability action plan approved by the concerned AD (Mines) for the planned systematic working by maintaining appropriate benches incorporating the haul road with proper gradient in the worked out pit, before obtaining CTO from TNPCB.
9. However, 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 any of the reputed Research and Academic Institution such as 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.
10. As a part of EC Compliance, the PP shall carry out the tree plantation (2000 nos) to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
11. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.

12. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
13. 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.
14. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
15. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. The PP shall carry out the comprehensive hydrogeological studies within 2 years from the commencement of the quarrying operation to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.


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18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
20. 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.
21. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Government High School, Nallmanayakkanpatti Village as committed, before obtaining CTO from TNPCB.

Agenda No: 376-17

(File No: 9886/2023)


Proposed Residential cum Commercial Building Project at Survey Nos.: 17/2A2 in Vaipootanpatti Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Mr. Saravanakumar Natesan - For Environmental Clearance. (SIA/TN/INFRA2/420457/2023, 03.03.2023).

The proposal was placed in this 376th Meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Mr. Saravanakumar Natesan has applied for Environmental Clearance for the Proposed Residential cum Commercial Building Project at Survey Nos.: 17/2A2 in Vaipootanpatti Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.

S. No	Description	Details
1.	Name of the Project	Proposed Residential cum Commercial Building Project by Mr. Saravanakumar Natesan


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2.	Location	S.F.No.17/2A2 in Vaipootanpatti Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu.			
3.	Type of Project	Building and Construction Projects Schedule 8 (a), Category "B2"			
4.	Latitude & Longitude	S.No	Latitude	Longitude	
		1	9°30'27.52"N	77°56'18.01"E	
		2	9°30'26.82"N	77°56'22.58"E	
		3	9°30'21.54"N	77°56'22.08"E	
		4	9°30'21.79"N	77°56'17.77"E	
5.	Total Plot/land Area (in sq. m)	Total Plot Area – 23,899 Sq.m			
6.	Built up area	Proposed total built-up area –60,013 Sq. m			
7.	Cost of Project	Rs.151.20 Crores			
8.	Land Break-up	Sl.No	Particular	Area (Sq.m)	%
		1	Total Land Area	23,899	100
		2	Total ground coverage area of building	11,900	50
		3	STP, Solid waste disposed and other utilities area	530	2
		4	Surface Parking area	163	1
		5	Road and other pavements Area	5,316	22
		6	Green Belt Area	3,585	15
		7	OSR Area	2,405	10
9.	Total Built up area	The total built up area –60,013 Sq. m Detailed Built Up Area Statement			
		Description	No. of Floors	No.of Dwelling Units	Built up Area (Sq.m)
		Block 1	S +4 Floors	32	4,861
		Block 2	S +4 Floors	32	4,861
		Block 3	S +4 Floors	32	4,861
		Block 4	S +4 Floors	32	4,861
		Block 5	S +4 Floors	32	4,861
		Block 6	S +4 Floors	32	4,861
		Block 7	S +4 Floors	32	4,861
		Block 8	S +4 Floors	32	4,861
		Block 9	S +4 Floors	32	3,743

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		Block 10	S +4 Floors	32	3,743
		Block 11	S +4 Floors	32	3,743
		Block 12	S +4 Floors	32	3,743
		Block 13 (Commercial Block)	b+G+4 Floors	-	5,623
		utilities (STP, DG Set, Transformer Yard ect)		-	530
		Total		384 units	60,013 Sq.m
10.	a) Water requirement KLD	Fresh Water Requirement – 245 KLD <ul style="list-style-type: none"> Domestic use – 244 KLD Swimming pool Top up – 1 KLD Treated water requirement- 292 KLD <ul style="list-style-type: none"> Flushing Use – 117 KLD Green belt Development – 13 KLD Village avenue Plantation -162 KLD 			
11.	Quantity of Effluent / Sewage KLD	Quantity of sewage generated: 324KLD			
12.	Total STP Capacity	Sewage Treatment Plant 337 KLD (1 No. of 280 KLD & 1 No. of 57 KLD)			
13.	Details of STP	Sewage Treatment Plant- 337 KLD (SBR Technology) <ul style="list-style-type: none"> Bar Screen Chamber Equalization tank SBR Tank Decant Tank Treated Water Tank UF Treated Water Tank Sludge Holding Tank 			
1.	Mode of Disposal of treated sewage with quantity	Total Treated waste water – 292 KLD <ul style="list-style-type: none"> Flushing Use – 117 KLD Green belt Development – 13 KLD Village avenue Plantation -162 KLD 			
14.	Quantity of Solid Waste generated per day , Mode of	S.No	Description	Quantity	Mode of treatment / Disposal

	treatment and Disposal of Solid Waste	1	a. Biodegradable waste	988 Kg/day	Treated in Organic waste convertor and used as manure for gardening															
			b. STP Sludge	32 Kg/day	Dewatered, dried and used as manure for green belt development															
		2	Non-Biodegradable waste	659 Kg/day	Handed over to Authorized recycles /vendors															
		3	E- Waste	3.2 T/ Annum	Handed over to Authorized recycles /dismantiers															
15.	Power requirement	3,300 kVA (Sourced from TANGEDCO)																		
16.	Details of D.G. set with Capacity	6 Nos. of 500 kVA Stacks with height of 22 meters are provided for all the DG sets to comply the CPCB norms																		
17.	Energy Conservation Measures	50% of the total roof area is provided with Solar Panels.																		
18.	Details of Green Belt Area	3,585sq.m (15%)																		
19.	Details of Parking Area	Parking Details <table><tr><th>Description</th><th>No of Car Parks</th><th>Area in Sq.m</th><th>No of two-wheeler parks</th><th>Area in Sq.m</th></tr><tr><td>Total number of parking required</td><td>348</td><td>4,350</td><td>141</td><td>254</td></tr><tr><td>Total number of parking Proposed</td><td>362</td><td>4,500</td><td>144</td><td>260</td></tr></table>				Description	No of Car Parks	Area in Sq.m	No of two-wheeler parks	Area in Sq.m	Total number of parking required	348	4,350	141	254	Total number of parking Proposed	362	4,500	144	260
Description	No of Car Parks	Area in Sq.m	No of two-wheeler parks	Area in Sq.m																
Total number of parking required	348	4,350	141	254																
Total number of parking Proposed	362	4,500	144	260																


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20.	Provision for rain water harvesting	Total Rainwater Runoff – 483 Cu.m <ul style="list-style-type: none"> Rain water collection sump capacity- 225 Cu.m (100% of the roof top collection per day is 222 Cu.m) – 222 Cu.m Remaining rain water will be recharge into recharge pit. Recharge pit:26 Nos with Dia 1.2 m, depth 2m.
21.	EMP Cost (Rs.)	Construction Phase Capital Expenses: Rs.20 lakhs Annual Operational Expenses: Rs.37 Lakhs Operation Phase Capital Expenses: Rs.217 lakhs Annual Operational Expenses: Rs.70 Lakhs
22.	CER activities with the specific allocation of funds	Rs.85 lakhs

Based on the presentation made and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** subject to the following specific conditions, in addition to standard conditions stipulated by MOEF &CC:

1. The building shall conform to minimum of IGBC Silver green building norms and shall obtain IGBC certificate in this regard before obtaining CTO from TNPCB.
2. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body /TWAD before obtaining CTO.
3. The project proponent shall increase more than 15% green belt as committed.
4. The treated/untreated sewage water shall not be let-out from the unit premises without obtain necessary permission from competent authority.
5. The proponent shall provide charging facility for e-vehicle in the two-wheeler/four-wheeler parking area.
6. The project proponent shall provide STP of capacity 337 kLD and make proper arrangements for the utilization of the treated water for committed activities (i.e Toilet flushing – 117 kLD, Greenbelt Development – 13 kLD, village avenue plantation- 162 KLD) ensuring that the vital parameters conform to the standards prescribed by CPCB time to time.

7. The PP shall adopt BOT contract so that the STP is maintained by the builder of STP for a minimum period of 10 years.
8. The proponent is requested to carry out a routine and periodic maintenance of the existing STP in the Warehouse.
9. The PP shall analyse the treated wastewater samples periodically through TNPCB.
10. The treated/untreated sewage water shall not be let-out from the unit premises.
11. The proponent shall provide adequate organic waste disposal facility such as organic waste convertor within the project site as committed and non- bio-degradable waste to should be sent to authorized recyclers as committed.
12. The height of the stacks of DG sets shall be provided as per the CPCB norms.
13. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc, to TNPCB before obtaining CTO.
14. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for toilet flushing, Green belt development & OSR and no treated water be let out of the premise.
15. The PP shall construct a tank of appropriate size in the earmarked OSR land in consultation with the local body. 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.
16. The sludge generated from the sewage treatment plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
17. 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, in consultation with the State Forest and Horticulture Departments. 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.

18. 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 boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
19. The proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
20. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
21. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
22. No waste of any type to be disposed of in any other way other than as per the concerned regulations in force.
23. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in air, noise, solid waste disposal, sewage treatment & disposal etc., shall be followed strictly.
24. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
25. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring of the health of construction workers during COVID and post-COVID period.
26. The project proponent shall measure the criteria air pollutants data (including CO) due to vehicular traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
27. Generation of the solar/renewable energy should not be less than 50% of total energy utilization and ensure that the entire roof of the building. Application of

solar energy should be utilized maximum for illumination of common areas, street lighting etc.

28. Solar water heating shall be provided to meet minimum of 50% the hot water demand of the residents or as per the requirement of the local building bye -laws, whichever is higher.
29. The grant of this E.C. is issued from the environmental angle only and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
30. 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 include demolishing plan & its mitigation measures in the EMP and adhere the same as committed.
31. The Project Proponent stated that an amount Rs. 85 lakhs shall be spent as CER and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

Agenda No: 376-18

(File No: 9866/2023)

Proposed "Construction of new multistoried "C" type quarters at Todhunter Nagar, Saidapet, Chennai" at Survey No: Block No. 27 – T.S No. : 1-13 of Todhunter Nagar Village, Saidapet Taluk and Chennai District by M/s. Public Works Department-for Environmental Clearance. (SIA/TN/INFRA2/419605/2023, dated: 24.02.2023)

The proposal was placed in this 376th meeting of SEAC held on 05.05.2023. The Committee noted that the Project Proponent was absent for the meeting. Hence the SEAC decided to defer the subject to a later date directing the Proponent to furnish reason for the absence.

Agenda No: 376-19

(File No: 9873/2023)

Proposed Rough stone quarry over an Extent of 2.70.34 Hectares of Patta land in S.F.Nos. 159/2(P), 159/3(P), 159/4(P), 159/5(P) and 159/16(P) ,of Vellar Village, Mettur Taluk, Salem District, Tamil Nadu by Thiru. P. Manjunath for Environmental Clearance (SIA/TN/MIN/420863/2023 dated 02.08.2021)

The project proposal was placed for appraisal in this 376th meeting of SEAC held on 05.05.2023. The details of the project furnished by the proponent are


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available on the PARIVESH web portal (parivesh.nic.in).

The Committee noted that,

1. The Project Proponent, Thiru. P. Manjunath has applied seeking Environmental Clearance for the proposed Rough stone quarry over an Extent of 2.70.34 Hectares of Patta land in S.F.Nos. 159/2(P), 159/3(P), 159/4(P), 159/5(P) and 159/16(P) ,of Vellar Village, Mettur Taluk, Salem 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, as amended.

On perusal of the documents furnished by the Project Proponent, the SEAC noticed that the patta of mine lease area is a joint patta and one of the survey numbers is common for this and an adjacent quarry which is under operation. Hence the Committee decided to call for the following details from the PP:

1. PP shall furnish the registered consent obtained from the other pattadars or furnish subdivided survey number for mine lease area.
2. Implications of the project on the drainage pattern of surface runoff and check dam located nearby.
3. Slope stability Action Plan for the existing highwall at one side of the quarry to maintain atleast 10 m safety berm for the proposed working.

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

Agenda No: 376-20

(File No: 9887/2023)

Proposed Construction of Highrise Residential Development at T.S.No. 1/4, 1/5, 1/17, 1/18, 1/19, 1/20, 1/21, 1/23, 1/24, 1/25, 1/31, 1/32, Block No.64 of Koyambedu Village, Aminjikarai Taluk and Chennai District by M/s. Appaswamy Real Estate Limited-for Environmental Clearance. (SIA/TN/INFRA2/419834/2023, dated: 24.02.2023)

The proposal was placed in this 376th meeting of SEAC held on 05.05.2023. The project proponent gave a detailed presentation. 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. Appaswamy Real Estate Limited has applied


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seeking Environmental Clearance for the Proposed Construction of high rise Residential Development at T.S.No. 1/4, 1/5, 1/17, 1/18, 1/19, 1/20, 1/21, 1/23, 1/24, 1/25, 1/31, 1/32, Block No.64 of Koyambedu Village, Aminjikarai Taluk, Chennai District.

2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006, as amended.

S.No	Project Details		
1.	Name of the Project	Proposed Construction of Highrise Residential Development by M/s. Appaswamy Real Estate Limited	
2.	Location	T.S.No. 1/4, 1/5, 1/17, 1/18, 1/19, 1/20, 1/21, 1/23, 1/24, 1/25, 1/31, 1/32, Block No.64 of Koyambedu Village, Aminjikarai Taluk and Chennai District	
	Latitude & Longitude	13° 4'16.32"N, 80°12'8.90"E	
3.	Type of Project	B2 Category 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006 as amended.	
4.	Brief Description of the project	The project is a High-rise residential building construction comprising of double basement floor, Stilt floor & 1st floor to 17 th floor and 18 th floor part residential building and clubhouse & the Total no. of dwelling units is 122 Nos	
5.	Total Land Area (in sq. m)	5140.511 Sq.m	
		S. No.	Percentage (%)
		Description	Area (Sq.m.)
		1	Total Land Area
		2	Ground coverage
		3	Roads and Pavements
		4	Surface Parking
		5	Utilities area
		6	Green belt development
		7	OSR Area

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6.	Built up Area -33158.32 Sq.m					
	Description	(FSI Area) Sqm	Non FSI Area Sqm	Parking Area & Others if any (Covered Built Up Area)	Total Built Up Area	
	Basement 2	-	389.35	2887.89	3277.24	
	Basement 1	-	389.35	2887.89	3277.24	
	Stilt floor	-	561.32	982.63	1543.95	
	1 st	1,407.03			1,407.03	
	2 nd	1,407.03			1,407.03	
	3 rd	1,407.03			1,407.03	
	4 th	1,407.03			1,407.03	
	5 th	1,407.03			1,407.03	
	6 th	1,407.03			1,407.03	
	7 th	1,407.03			1,407.03	
	8 th	1,407.03			1,407.03	
	9 th	1,407.03			1,407.03	
	10 th	1,407.03			1,407.03	
	11 th	1,407.03			1,407.03	
	12 th	1,407.03			1,407.03	
	13 th	1,407.03			1,407.03	
	14 th	1,407.03			1,407.03	
	15 th	1,407.03			1,407.03	
	16 th	1,407.03			1,407.03	
	17 th	1,407.03			1,407.03	
	18 th (APT/CLUB)	1,140.38			1,140.38	
	Total	25,059.89	1340.02		33,158.32	
	7.	Cost of Project		Rs. 77.01 Crore		
	8.	Water requirement in KLD and Source		Total water requirement: 112 kLD Fresh water requirement: 71 kLD (Sourced from CMWSSB) Treated water: 41 kLD		
9.	Quantity of Sewage		Quantity of Sewage generation – 36kLD Waste water generation – 55kLD STP Total Capacity – 60kLD Treated water 52kLD			
10.	Details of STP		Bar Screen Chamber Equalization tank SBR Tank			

		Sludge Holding Tank Pressure Sand Filter Activated Carbon Filter Decant water Tank Treated water tank UF treated water tank UV Disinfection system Dewatering system – filter press with screw pumps		
11.	Mode of disposal of Sewage	Treated water from treatment plant: 41 KLD Toilet flushing – 36 KLD, Greenbelt Development – 5 KLD Excess treated sewage disposed to CMWSSB Sewer Line – 11 KLD		
12.	Quantity of Solid Waste generated per day, Mode of treatment and Disposal of Solid Waste	Description	Quantity (kg/day)	Mode of treatment / disposal
		Biodegradable Waste (@40% of waste generated)	191	Will be treated in organic waste convertor within the project site. Manure generated will be used for landscaping purpose within project site
		Non-Biodegradable waste (@60% of waste generated)	287	Waste will be sold to recyclers.
		STP Sludge	10 kg/day	Will be used as Manure for greenbelt development.
13.	Power Requirement	The total power requirement is about 1172.6 KW and sourced from TNEB grid		
14.	Details of D.G. set with Capacity Stack Height	DG sets of capacity 1 X 320 KVA As per CPCB norms		
15.	Details of Parking Area	Details	No. of Car parkings	No of two


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				wheeler parkings
		Total number of car parks in 2- basements & stilts floor	227	48
		Total number of car parks in Ground level	23	-
		Total number of Car Parks required as CMDA norms	227	-
		10% Visitor Car parking provided	23	-
		Total number of Car Parks provided	250	-
16.	Details of Green Belt Area	776.86 Sq.m		
17.	Rainwater Harvesting	<p>Total Rainwater Runoff- 3380 Cum</p> <p>Rain water collection sump capacity- 35KLD (100% of the roof top collection per day is 33 KLD) – 33 cum</p> <p>Remaining rain water will be recharge into recharge pit. Recharge pit : 10 Nos with Dia 1.2 m, depth 2m – 35cum</p>		
18.	Renewable Energy Proposed	<ul style="list-style-type: none"> Using the energy efficient light fixtures like LED in common areas/Flats as per customer. Solar street lights By educating the flat owners to use 3-to-5-star A/C instead of normal A/C. Using variable frequency drive(VFD) for pumps in water supply and treatment plants 		
19.	EMP Cost	<p>For Construction Phase:</p> <p>Capital Cost: Rs. 9.8 Lakh Operation Cost: Rs. 28.5 Lakh</p> <p>For Operation Phase:</p>		

		Capital Cost: Rs. 88 Lakh Recurring Cost: Rs. 34.96 Lakh
20.	CER Allocation	Rs. 85 Lakh

The Committee held detailed discussions and decided to **recommend the proposal for the grant of Environmental Clearance** subject to the following specific conditions in addition to normal conditions stipulated by MOEF&CC.

1. The project proponent shall obtain IGBC Gold rating for the proposed construction project.
2. The Project Proponent shall provide electrical vehicle charging units in the two-wheeler/four-wheeler parking area.
3. The Project Proponent shall provide permeable pavements for covering the ground surfaces open to sky. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. shall be considered as previous surface.
4. The project proponent shall maintain minimum 15% green belt as committed.
5. No construction shall be proposed obstructing the natural drainage through the site.
6. The proponent shall provide adequate organic waste disposal facility such as organic waste convertor waste within project site as committed and non-Biodegradable waste to authorized recyclers as committed.
7. Project proponent shall ensure that DG sets are run on minimum of 50% green energy sources instead of Diesel.
8. The height of the stacks of DG sets shall be provided as per the CPCB norms.
9. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCB before obtaining CTO.
10. The project proponent shall provide STP of capacity 60 kLD and make proper arrangements for the utilization of the treated water of 41 kLD for committed activities (i.e Toilet flushing – 36 kLD, Greenbelt Development – 5 kLD, excess treated sewage disposal to CMWSSB Sewer Line – 11 KLD) ensuring that the vital parameters conform to the standards prescribed by CPCB time to time.
11. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green


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belt development after composting.

12. 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, in consultation with the DFO, State Agriculture University and local school/college authorities. 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.
13. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted with 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.
14. The unit shall ensure the compliance of land use classification is fit for construction.
15. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the pubic usage and as committed.
16. The project proponent 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.
17. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
18. The project proponent shall comply with the provisions given under Solid Waste Management Rules, 2016, as amended.

19. The project proponent shall strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended.
20. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
21. No waste of any type to be disposed of in any other way other than the approved one.
22. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
23. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
24. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
25. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
26. The project proponent shall ensure minimum of 50% of roof area is covered with solar panels to conserve energy. Solar energy should be at least 25% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
27. **Solar water heating shall be provided to meet minimum of 50% the hot water demand of the residents or as per the requirement of the local building bye -laws, whichever is higher.**
28. That the grant of this E.C. is issued from the environmental angle only and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.


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29. 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 the EMP as committed.
30. As accepted by the Project Proponent the CER cost is **Rs.85 Lakh** and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

Agenda No: 376-21

(File No: 8788/2023)

Proposed Sand quarry project over an extent of 25.31.7 Ha of Nanganjiyar River Basin (Government land) in S.F.No. 225, 226 and 227, of Vadakadu Village of Oddanchatram Taluk, Dindigul District, Tamil Nadu State by Executive Engineer (Public Works Department / Water Resources Department - Nanganjiyar Basin Division), Palani—for Environmental Clearance. (SIA/TN/MIN/425804/2023, dated: 12.04.2023)

The proposal was placed in this 376th meeting of SEAC held on 05.05.2023. The Committee noted that the Project Proponent was absent for the meeting. Hence the SEAC decided to defer the subject to a later date directing the Proponent to furnish reason for the absence.

Agenda No: 376 - 22


(File No: 9645/2022)

Proposed Karimbedu Sand Quarry Project for Restoring the Functional Efficiency of the Kosasthalaiyar River over an Extent of 4.95.0Ha of Government land in S.F.No. 187 (Part) of Kosasthalaiyar (Nagari) River in Karimbedu Village, Pallipattu Taluk, Tiruvallur District, Tamil Nadu by the Executive Engineer, PWD/WRD – For Environmental Clearance. (SIA/TN/MIN/409817/2022 Dt. 08.12.2022)

The proposal was placed for appraisal in this 340th SEAC Meeting held on 23.12.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:


1. The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance for the Proposed Karimbedu Sand Quarry Project for Restoring the Functional Efficiency of the Kosasthalaiyar River over an Extent of 4.95.0Ha of Government land in S.F.No. 187 (Part) of Kosasthalaiyar (Nagari) River in Karimbedu Village, Pallipattu Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of


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Minerals Projects” of the sschedule to the EIA Notification, 2006.

3. As per mining plan, the lease period is for one year and the mining plan is for the period of One year & mining quantity should not exceed 50,985 cu.m. of sand per annum. The ultimate depth - 2.06 metres (1.16m – Above River Bed (Shoal) & 0.90m - Below River Bed).
4. Earlier the proposal was placed in the 340th SEAC meeting held on 23.12.2022. Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub Committee constituted by SEAC to assess the present Environmental Condition. Further, the PP shall furnish the following details during the site inspection.
 1. The Project Proponent shall study and report in detail on the “Replenishment Study” as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020”.
 2. Pillar stone shall be erected before the site inspection.
5. Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr. No. SEAC-TN/9645/ Site Inspection/2022, dt. 23.12.2022 to inspect and study the field condition for the proposal seeking EC for a sand quarry proposed at Karimbedu Village in S.F.No. 187 (Part) Pallipattu Taluk, Tiruvallur District. The Committee comprises of Prof. Dr. Kurian Joseph., Member, SEAC.
6. The proposal was again placed in 359th SEAC meeting held on 02.03.2023. Based on the recommendations of the sub-committee and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance.**
7. Subsequently, the proposal was placed in 605th Authority meeting held on 28.03.2023. Authority after detailed deliberation, noted that
 1. Appeal Number 80 of 2022 has been filed in the Hon’ble NGT, Southern Zone has passed various orders as below
Order dated: 27.03.2023


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“...It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under ‘B1 – Category’ which would require the public hearing, replenishment study and also the EIA Study.”

Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

In the view of the above, Authority decided to refer back the proposal to SEAC to examine the aforementioned NGT order and shall furnish its recommendation to SEIAA regarding the category under which the proposal may be granted EC.

Based on the above, the proposal was again placed in 376th SEAC meeting held on 05.05.2023. SEAC decided to defer the proposal and take up in the ensuing meeting.

Agenda No: 376-23

(File No: 9474/2022)

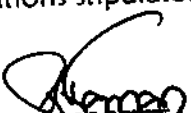
Proposed Sand quarry over an extent of 4.90.0 Ha in Thenpennai River located at S.F.No.1(P) in Akkadavalli Village, Panruti Taluk, Cuddalore District, Tamil Nadu by The Executive Engineer, PWD/WRD, Villupuram– For Environmental Clearance. (SIA/TN/MIN/290813/2022 Dt. 30.08.2022).

Earlier, this proposal was placed in the 322nd SEAC Meeting held on 19.10.2022.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub-Committee constituted by SEAC to assess the present Environmental Condition.

1. The Project Proponent shall study and report in detail on the “Replenishment Study” as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020”.
2. Pillar stone shall be erected before the site inspection.

Based on the Inspection report, this proposal was placed for appraisal in the 360th SEAC Meeting held on 03.03.2023. Based on the Inspection report, presentation and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for 1,14,380 m³ of Sand for period of 1 Year, subject** to the specific conditions as stated therein, in addition to normal conditions stipulated by MOEF &CC.


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Subsequently, the proposal was placed for appraisal in this 606th SEIAA Meeting held on 29.03.2023 & 30.03.2023. Authority after detailed deliberation, noted that

1. Appeal Number 80 of 2022 has been filed in the Hon'ble NGT, Southern Zone has passed various orders as below

Order dated: 27.03.2023

"...It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under 'B1 – Category' which would require the public hearing, replenishment study and also the EIA Study."

Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

In the view of the above, Authority decided to refer back the proposal to SEAC to examine the aforementioned NGT order and shall furnish its recommendation to SEIAA regarding the category under which the proposal may be granted EC.

Hence, the proposal was placed in 376th SEAC Meeting held on 05.05.2023. During the presentation, committee decided to defer the proposal and take up for appraisal in the ensuing meeting.

Agenda No: 376-24

(File No: 9291/2022)

Proposed sand quarry lease over an extent of 4.95.0 Ha at S.F.No. 256 and 257 (Part) of Sathamangalam (Ananthimedu) Village, Lalgudi Taluk, Tiruchirappalli District, Tamil Nadu by M/s. The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli - For Environmental Clearance. (SIA/TN/MIN/275521/2022, Dt. 30.05.2022).

Earlier, this proposal was placed in the 296th SEAC meeting held on 16.07.2022. Based on the documents furnished and presentation made by the proponent, the SEAC, after detailed deliberations, **decided to make an on-spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC. Further, the PP shall furnish the following details during the site inspection.**

- I. The Project Proponent shall study and report in details of the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020.

Based on the Inspection report, this proposal was placed in the 339th SEAC meeting held on 22.12.2022. Based on the presentation and documents furnished by


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the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for 1,23,750 m³ of Sand for period of 2 Years, subject to the specific conditions as stated therein, in addition to normal conditions stipulated by MOEF &CC:**


Subsequently, this proposal was placed for appraisal in the 584th SEIAA meeting held on 12.01.2023. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following and place before the Authority for further course of action.

- The PP shall furnish the exact distance of proposed mining lease area from the Kallanai Dam ("Grand Anicut").
- The PP shall furnish the status w.r.to the W.P(MD) No. 133 of 2023 & WMP (MD) No. 130 of 2023.

Based on the PP's reply vide Lr. Dt: 15.02.2023, Again this proposal was placed in the 596th Authority meeting held on 22.02.2023 & 23.02.2023. The Authority further noted that PILs have been filed before the Hon'ble High Court of Madras (Madura Bench) vide WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 with the prayer to restrict sand mining using heavy machineries in the River basin of Kaveri/Kollidam considering the stability of the Kallanai Dam and the case is pending before the Hon'ble Court. In this connection, the Authority decided to refer back the subject to SEAC to furnish its remarks on permitting mechanized sand quarrying near Kallanai Dam.

Based on that this proposal has again been placed in 361st SEAC meeting held on 10.03.2023. The project proponent gave a re-presentation incorporating the details requested by SEIAA. The committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to **reiterate its recommendation** already made in 339th SEAC meeting held on 22.12.2022. All other conditions stipulated in the earlier minutes will remain unaltered.

Subsequently, this proposal was placed in the 607th SEIAA meeting held on 03.04.2023. The Authority further noted that PILs have been filed before the Hon'ble High Court of Madras (Madura Bench) vide WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 with the prayer to restrict sand mining using heavy machineries in


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the River basin of Kaveri/Kollidam considering the stability of the Kallanai Dam and the case is pending before the Hon'ble Court.

In addition to that Authority noted that

2. Appeal Number 80 of 2022 has been filed in the Hon'ble NGT, Southern Zone has passed various orders as below

Order dated: 27.03.2023

"...It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under 'B1 - Category' which would require the public hearing, replenishment study and also the EIA Study."

Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

In the view of the above, Authority decided to refer back the proposal to SEAC to furnish remarks on permitting mechanized sand quarrying near Kallanai Dam by considering the WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 pending before the Hon'ble Court and to examine the aforementioned NGT order and shall furnish its recommendation to SEIAA regarding the category under which the proposal may be granted EC.

Now, the proposal was placed in this 376th SEAC Meeting held on 05.05.2023. During the presentation, committee decided to defer the proposal and take up for appraisal in the ensuing meeting.

Agenda No: 367-25

(File No: 9292/2022)

Proposed sand quarry lease over an extent of 4.90.0 Ha at S.F.No. 242 (Part) of Srinivasanallur Village, Thottiyam Taluk, Tiruchirappalli District, Tamil Nadu by the Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli - For Environmental Clearance (SIA/TN/MIN/78415/2022, Dt. 17.06.2022)

The proposal was earlier placed in the 296th meeting of SEAC held on 16.07.2022 & 361st SEAC meeting held on . The project proponent has given a detailed presentation. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). **The SEAC noted the following:**


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1. The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirappalli has applied for Environmental Clearance for the proposed sand quarry lease over an extent of 4.90.0 Ha at S.F.No: 242 (Part) of Srinivasanallur Village, Thottiyam Taluk, Tiruchirapalli District, Tamil Nadu.
 2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.
- The proposal was placed in 608th Authority Meeting dated 05.04.2023 and 06.04.2023.

The Authority noted that this proposal was placed for appraisal in 361st SEAC meeting held on 10.03.2023. SEAC decided to recommend the issue of Environmental Clearance subject to certain conditions stated therein.

The Authority further noted that PILs have been filed before the Hon'ble High Court of Madras (Madura Bench) vide WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 with the prayer to restrict sand mining using heavy machineries in the River basin of Kaveri/Kollidam considering the stability of the Kallanai Dam and the case is pending before the Hon'ble Court.

In addition to that Authority noted that,

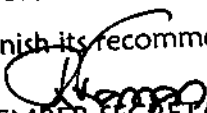
1. Appeal Number 80 of 2022 has been filed in the Hon'ble NGT, Southern Zone has passed various orders as below,

Order dated: 27.03.2023

"...It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under 'B1 - Category' which would require the public hearing, replenishment study and also the EIA Study."

Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

In the view of the above, Authority decided to refer back the proposal to SEAC to furnish remarks on permitting mechanized sand quarrying near Kallanai Dam by considering the WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 pending before the Hon'ble Court and to examine the aforementioned NGT order and shall furnish its recommendation to SEIAA regarding the category under which the proposal


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may be granted EC. Also SEAC Shall furnish the recommendation regarding usage of no of poclains with respect of 90th SEAC Minutes dated 06.06.2017.

Now the proposal was placed in the 376th SEAC Meeting held on 05.05.2023. During the presentation, committee decided to defer the proposal and take up for appraisal in the ensuing meeting.

Agenda No: 376- 26

(File No: 9458/2022)

Proposed Sand quarry over an extent of 4.95.0 Ha in Cauvery river located at SF. No. 47 (P) of Bommalapalayam village, Paramathi Vellore Taluk, Namakkal District, Tamil Nadu by M/s. The Executive Engineer, PWD/WRD– For Environmental Clearance. (SIA/TN/MIN/288258/2022 Dt.11.08.2022)

Earlier, this proposal was placed for appraisal in 322nd SEAC Meeting held on 19.10.2022 & 362nd SEAC meeting held on 13.03.2026. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. The Executive Engineer, PWD/WRD, has applied for Environmental Clearance proposed Sand quarry over an extent of 4.95.0 Ha in Cauvery river located at S SF. No. 47 (P) of Bommalapalayam village, Paramathi Vellore Taluk, Namakkal 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. As per mining plan, the lease period is 2 years and the mining plan for the period of 2 years & mining quantity should not exceed 99,000m³ of sand. The ultimate depth 2m (1m Above Bed Level + 1m Below Bed Level) for a period of Two years.

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub Committee constituted by SEAC to assess the present Environmental Condition. Further, the PP shall furnish the following details during the site inspection.


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1. The Project Proponent shall study and report in detail on the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020".
2. Pillar stone shall be erected before the site inspection.

The proposal was placed in 362nd SEAC meeting held on 13.03.2023.

The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a subcommittee vide its Lr.No. SEAC/TN/9458 Site Inspection/2022, dtd. 21.10.2022 to inspect and study the field condition for the proposal seeking EC for a sand quarry proposed at SF. No. 47 (P) of Bommalapalayam village, Paramathi Vellore Taluk, Namakkal District, Tamil Nadu. The Committee comprises of Dr.P.Balamadeswaran, Member, SEAC.

As per the above letter the sub-committee visited the site on 18.01.2023 and recommended the proposal for grant of Environmental Clearance.

The proposal was placed in 608th Authority Meeting dated: 05.04.2023 and 06.04.2023.

The Authority noted that this proposal was placed for appraisal in 361st SEAC meeting held on 10.03.2023. SEAC decided to recommend the issue of Environmental Clearance subject to certain conditions stated therein.

The Authority further noted that PILs have been filed before the Hon'ble High Court of Madras (Madura Bench) vide WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 with the prayer to restrict sand mining using heavy machineries in the River basin of Kaveri/Kollidam considering the stability of the Kallanai Dam and the case is pending before the Hon'ble Court.

In addition to that Authority noted that,

1. Appeal Number 80 of 2022 has been filed in the Hon'ble NGT, Southern Zone has passed various orders as below.

Order dated: 27.03.2023

"...It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under 'B1 - Category' which would require the public hearing, replenishment study and also the EIA Study."


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Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

In the view of the above, Authority decided to refer back the proposal to SEAC to furnish remarks on permitting mechanized sand quarrying near Kallanai Dam by considering the WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 pending before the Hon'ble Court and to examine the aforementioned NGT order and shall furnish its recommendation to SEIAA regarding the category under which the proposal may be granted EC. Also SEAC Shall furnish the recommendation regarding usage of no of poclains with respect of 90th SEAC Minutes dated 06.06.2017.

Now the proposal was placed in the 376th SEAC Meeting held on 05.05.2023. During the presentation, committee decided to defer the proposal and take up for appraisal in the ensuing meeting.

Agenda No: 376 - 27

(File No: 9492/2022)

Proposed Sand quarry over an extent of 4.93.0 Ha in Cauvery river located at S.F.No: 170 (P), Sarkar Manapalli Village, Mohanur Taluk, Namakkal District, Tamil Nadu by M/s. The Executive Engineer, PWD/WRD- For Environmental Clearance. (SIA/TN/MIN/ 288558/2022 Dt.17.08.2022)

The proposal was placed for appraisal in 322nd SEAC Meeting held on 19.10.2022. The details of the minutes are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. The Executive Engineer, PWD/WRD, has applied for Environmental Clearance proposed Sand quarry over an extent of 4.93.0 Ha in Cauvery river located at S.F.No: 170 (P), Sarkar Manapalli Village, Mohanur Taluk, Namakkal 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. As per mining plan, the lease period is 2 years and the mining plan for the period of 2 years & mining quantity should not exceed 93,177m³ of sand. The ultimate depth 1.89m (0.89m Above Bed Level + 1m Below Bed Level) for a period of two years.


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The proposal was placed in 608th Authority Meeting dated 05.04.2023 and 06.04.2023.

The Authority noted that this proposal was placed for appraisal in 362nd SEAC meeting held on 13.03.2023. SEAC decided to recommend the issue of Environmental Clearance subject to certain conditions stated therein.

The Authority further noted that PILs have been filed before the Hon'ble High Court of Madras (Madura Bench) vide WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 with the prayer to restrict sand mining using heavy machineries in the River basin of Kaveri/Kollidam considering the stability of the Kallanai Dam and the case is pending before the Hon'ble Court.

In addition to that Authority noted that,

2. Appeal Number 80 of 2022 has been filed in the Hon'ble NGT, Southern Zone has passed various orders as below.


Order dated: 27.03.2023

"...It is very well clear that when the sand mining is committed to be done with the machinery, automatically it will fall under 'B1 - Category' which would require the public hearing, replenishment study and also the EIA Study."

Further, the court has directed the proponent to maintain status quo as per the earlier order issued to carry out only manual excavation.

In the view of the above, Authority decided to refer back the proposal to SEAC to furnish remarks on permitting mechanized sand quarrying near Kallanai Dam by considering the WP(MD) No.133 of 2023 and WMP(MD) No.130 of 2023 pending before the Hon'ble Court and to examine the aforementioned NGT order and shall furnish its recommendation to SEIAA regarding the category under which the proposal may be granted EC. Also SEAC Shall furnish the recommendation regarding usage of no of poclains with respect of 90th SEAC Minutes dated 06.06.2017.

Now the proposal was placed in the 376th SEAC Meeting held on 05.05.2023. During the presentation, committee decided to defer the proposal and take up for appraisal in the ensuing meeting.


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Agenda No: 375 – 28.

(File No: 8261/2021)

Existing sand quarry in Cauvery River poramboke land at S.F.No.1(P), over an extent of 4.90.0Hectres in Kallapalli Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by The Executive Engineer, PWD/WRD, Mining & Monitoring Division, Tiruchirappalli - for amendment for Environmental Clearance. (SIA/TN/MIN/261141/2022 Dt:11.03.2022)

Earlier, The proposal was placed in this 361st Meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available on the website (www.parivesh.nic.in).

The SEAC noted the following:

1. Earlier, EC was issued vide Lr. No.SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021, dated: 27.03.2021 for the existing sand quarry in in Cauvery River S.F.No.1(P), over an extent of 4.90.0Hectres in Kallapalli Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by The Executive Engineer, PWD/WRD, Mining & Monitoring Division, Tiruchirappalli for the quarrying of 23709cu.m of Shoals & 49000cu.m of Sand for the period of 2 Years and upto 1m below bed level as per mining plan vide Rc. No. 833/Mines /2020 Dt:07.12.2020.
2. Now the PP has sought amendment for Environmental Clearance for the existing sand quarry in Cauvery River poramboke land at S.F.No.1(P), over an extent of 4.90.0Hectres in Kallapalli Village, Krishnarayapuram Taluk, Karur District, Tamil Nadu by The Executive Engineer, PWD/WRD, Mining & Monitoring Division, Tiruchirappalli for the following

S.No.	Previous EC Conditions vide Lr. No.SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021, dated: 27.03.2021	Amendment Sought for
1.	Open cast Manual Mining	Open cast Mechanized Mining
2.	Manual Loading	Loading by Hydraulic Excavator
3.	Bullock Cart Transportation	General transportation using Tipper, Tractor & Bullock cart.

3. Modified Mining Plan vide Rc.No. 833/Mines /2018 Dt:10.02.2023.


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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 amendment for Environmental Clearance in regard to the following amendment sought shall be amended and substituted in the earlier EC issued vide Lr. No.SEIAA-TN/F.No. 8261/EC/1(a)/4595/2021, dated: 27.03.2021 as follows subject to all other conditions stipulated vide EC Lr. No.SEIAA-TN/F.No. 8261/EC/1(a)/ 4595/2021, dated: 27.03.2021 remains unaltered.

S.No.	Previous EC Conditions vide Lr. No.SEIAA-TN/F.No. 8261/EC/1(a)/4595/2021, dated: 27.03.2021	Amendment Sought for	Amendment granted
1.	Open cast Manual Mining	Open cast Mechanized Mining	Open cast Mechanized Mining
2.	Manual Loading	Loading by Hydraulic Excavator	Loading by Hydraulic Excavator
3.	Bullock Cart Transportation	General transportation using Tipper, Tractor & Bullock cart.	General transportation using Tipper, Tractor & Bullock cart (from stock yard only).

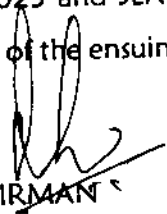
Subject to the following other conditions:

1. 10% of the total excavated quantity shall be utilized for local beneficiaries.
2. The PP shall plant at least 1000 no of tree plants along the banks of the River in the vicinity of the site, as a part of EMP.

Subsequently, the subject was placed in 607th Authority meeting held on 03.04.2023. The Authority after detailed discussion decide to refer back the proposal seeking amendment of EC Dt: 27.03.2021 to SEAC in regard to W.P. (MD). No. 5919 of 2023 pending before Hon'ble Madurai Bench of Madurai High Court.

The proposal was again placed in 376th SEAC meeting held on 05.05.2023 and SEAC has decided to defer the proposal and to take up this proposal in any one of the ensuing SEAC meeting.


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Agenda No: 375-29

(File No: 9824/2023)

Proposed sand quarry in Vellaru river over an extent of 4.48.0Ha at S.F.No.241/1 (P) & 242/1 (P), Vasistapuram Village, Kunnam Taluk, Perambalur District, TamilNadu by The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Tiruchirappalli – For Environmental Clearance. (SIA/TN/MIN/414167/2023, dated 14.01.2023)

The proposal was placed in this 361st Meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available on the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, The Executive Engineer, Public Works Department, WRD, Mining and Monitoring Division, Tiruchirappalli has applied for Environmental Clearance for the proposed sand quarry in Vellaru river over an extent of 4.48.0Ha at S.F.No.241/1 (P) & 242/1 (P), Vasistapuram Village, Kunnam Taluk, Perambalur District, TamilNadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Production as per mining plan 64812m³ of Sand for a period of 1 Year and up to depth of 1.0m.

Based on the documents furnished and the presentation made by the proponent, the SEAC, after detailed deliberations, decided to make an on-spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC. Further, the PP shall furnish the following details during the site inspection.

1. The Project Proponent shall make a detailed study involving reputed Govt scientific institutions and furnish a report in detail on the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020.
2. Pillar stone shall be erected before the site inspection.
3. Details of existing mining activities carried out in 1 Km either upstream & downstream direction.
4. Previous History of mining operation in the same location.


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On receipt of the Sub Committee report further deliberation will be done.

Subsequently, the subject was placed in 607th Authority meeting held on 03.04.2023. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent.

The proposal was again placed in 376th SEAC meeting held on 05.05.2023 and SEAC has decided to defer the proposal and to take up this proposal in any one of the ensuing SEAC meeting.

Agenda No: 376-30

(File No: 9825/2023)

Proposed Sand quarry lease in Palar River over an extent of 3.90.0 Ha at S.F.No 134(P) in Chithathur Village, Gudiyatham Taluk, Vellore District, Tamil Nadu by The Executive Engineer, WRD, Mining and Monitoring Division, Chennai -For Environmental Clearance (SIA/TN/MIN/416871/2023, 03.02.2023).

The proposal was placed in this 361st meeting of SEAC held on 10.03.2023. Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub Committee constituted by SEAC to assess the present Environmental Condition. Further, the PP shall furnish the following details during the site inspection.

1. The Project Proponent shall study and report in detail on the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020".
2. Pillar stone shall be erected before the site inspection.
3. Details of existing mining activities carried out in 1 Km either upstream & downstream direction.
4. Previous history of mining operation in the same location.

Again, the proposal was placed in 376th SEAC Meeting held on 05.05.2023. During the presentation, committee decided to defer the proposal and take up for appraisal in the ensuing meeting.


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ANNEXURE-I

1. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
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 i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not 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. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
6. The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.


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7. 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 and submit the consolidated report to TNPCB once in six months.
8. The Project Proponent shall carry out slope stability study by a reputed academic/research institution such as NIRM, IIT, Anna University for evaluating the safe slope angle if the proposed dump height is more than 30 meters. The slope stability report shall be submitted to concerned Regional office of MoEF&CC, Govt. of India, Chennai as well as SEIAA, Tamilnadu.
9. 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. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
10. 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.
11. 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 in consultation with the DFO, State Agriculture University and local school/college authorities. 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.
12. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper escapements as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.


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13. **Noise and Vibration Related:** (i) The Proponent shall carry out only the Controlled Blasting operation using NONEL shock tube initiation system during daytime. Usage of other initiation systems such as detonating cord/fuse, safety fuse, ordinary detonators, cord relays, should be avoided in the blasting operation. The mitigation measures for control of ground vibrations and to arrest fly rocks should be implemented meticulously under the supervision of statutory competent persons possessing the I / II Class Mines Manager / Foreman / Blaster certificate issued by the DGMS under MMR 1961, appointed in the quarry. No secondary blasting of boulders shall be carried out in any occasions and only the Rock Breakers (or) other suitable non-explosive techniques shall be adopted if such secondary breakage is required. The Project Proponent shall provide required number of the security sentries for guarding the danger zone of 500 m radius from the site of blasting to ensure that no human/animal is present within this danger zone and also no person is allowed to enter into (or) stay in the danger zone during the blasting. (ii) 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.
14. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
15. 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.
16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
17. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take


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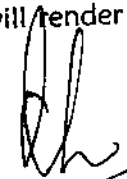
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adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.


18. 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.
19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
20. The Project proponent 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 that is fit for the growth of fodder, flora, fauna etc.
21. 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.
22. The project proponent shall ensure that the provisions of the MMRD, 1956, 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.
23. 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.
24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will tender the


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Project Proponent liable for legal action in accordance with Environment and Mining Laws.

25. 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.
26. 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.
27. 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.
28. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project information as shown in the Appendix -II of this minute.


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Appendix -I
List of Native Trees Suggested for Planting

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

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40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malaiipoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபாலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கன் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தான் கொட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்திரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சத்தன் வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பூளி


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கார்ப்புகளில் ஓவாரி செயல்பாடுகளுக்கான கற்றுத்தல் அனுமதி கீழ்க்கண்ட நித்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEWA—, தேதிபிட்டு, கற்றுத்தல் அனுமதி _____ தேதி வரை செயல்தக்கதாக உள்ளது

பகைமை பகுதி வரையீச்சி வேம்பாட்டுக்களை கண்காணிப்பு	குவாரியின் எல்லைவரையில் அந்தி வேலி அமைக்க வேண்டும் கரங்கப்பாளையத்தில் ஆழம் தளமாட்டத்திலிருந்து மீட்டர்சு மிகாமல் இருக்க வேண்டும் காற்றில் மாக ஏற்படாதவாறு கரங்க பணிகளை மேற்கொள்ள வேண்டும் வாகனங்கள் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்கு தண்ணீரை முறையாக தண்ணீர் வளிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும் இனச்சேல் அமைப்பதும் தூசி மாகப்பாட்டையும் இனச்சேலுதற்காக குவாரியின் எல்லைவரையில் அந்தி அடத்திபாளைய பகைமை பகுதியை ஏற்படுத்த வேண்டும்.
நடப்பட்டு பராமரிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை:	கரங்கத்தில் வெடிக் காலத்திலும்பொழுது நிலவாதிருவதன் ஏற்படாதவாறும் மற்றும் கற்கள் பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உள்ளிப்பாக செயல்படுத்தப்பட வேண்டும் கரங்கத்தில் இருந்து ஏற்படும் இனச்சேல் அளவு 85 டெசிபெல்ஸ் (dBA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.
கரங்க சட்ட விதிகள் 1966ன் கீழ் கரங்கத்தில் உள்ள பணிகளுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கைதாரமுள்ள கருவிகளை வசதிசெய்து கொடுக்க வேண்டும்.	கிராமம் அல்லது பகுதியை வளிக்க வாகனங்கள் செல்லும் சாலைவழி தொடர்ந்து நன்கு பராமரிக்க வேண்டும். கரங்கப்பாளையத்தில் அருகில் உள்ள விவசாய பணிகள் மற்றும் தீவிரவாசிகள் பாதிக்கப்படக் கூடாது. தீவிரவாசிகள் பாதிக்கப்படாமல் இருப்பதற்கு உறுதி செய்யும் வகையில் தீவிரவாசிகள் தீவிரவாசிகள் தொடர்ந்து கண்காணிக்க வேண்டும். கரங்கத்திலிருந்து கனம் பொருட்களை எடுத்துச் செல்லும் கிராம மக்களுக்கு எந்தக் கிராமத்திலிருந்தும் ஏற்படுத்தாதவாறு பாதுகாப்பாக மற்றும் கரங்கத்திலும் பாதிக்காத வகையில் வாகனங்களை இயக்க வேண்டும். கரங்கப்பாளையம் முடிக்கப்பட்டவுடன் கரங்க முடில் திட்டத்தில் உள்ளவாறு கரங்கத்திலிருந்து மூட வேண்டும். கரங்க நடவடிக்கைகளை முடித்தபின்னர் கரங்கப் பகுதி மற்றும் கரங்க நடவடிக்கைகளால் இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்ய தவறுதல் விவரங்களை ஆய்விப்பதற்கு ஏற்ற வகையில் பகைமைப்பகுதியை உருவாக்க வேண்டும்.
முழுமையான திட்டத்தை அளிப்பதற்கு (https://parivest.in) என்கிற இணையதளத்தைப் பார்வையிட்டுவும் மேலும் எந்தவித கரங்கத்திலும் எந்தப் பகுதிக்குள்ளும் உள்ள கரங்கத்திலும் மற்றும் வாகனங்களின் ஒருங்கிணைந்த வட்டார அலுவலகம் 044 - 2822325 (அல்லது) தனித்தனியாக வட்டார வாரியத்தின் மூலம் கரங்கத்திலும் பொதுமக்களை அனுப்பவும்	


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