# State Expert Appraisal Committee (SEAC)

Minutes of 411<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 27.09.2023 (Wednesday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building & Construction projects and Mining projects.

### Confirmation of Earlier Minutes

The minutes of the 410th SEAC meeting held on 22.09.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 411-01

(File No: 8987/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.29.0Ha at SF.No.902/1 and 903/1 of Nathikudi Village, Vembakkottai Taluk, Virudhunagar District, Tamil Nadu by Thiru.K.Sugan - for Environmental Clearance. (SIA/TN/MIN/439862/2023, Dated:09.08.2023)

The proposal was placed in 411th meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

#### The SEAC noted the following

- The Project Proponent, Thiru.K.Sugan has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 1.29.0Ha at SF.No.902/1 and 903/1 of Nathikudi Village, Vembakkottai Taluk, Virudhunagar District, Tamil Nadu.
- 2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and documents furnished by the project proponent, SEAC noted that fireworks factories are located at 200m. During the presentation, the PP requested the SEAC to defer the proposal for submitting additional information pertaining to the proposed quarrying operation. Hence, the SEAC to defer the proposal.

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Agenda No: 411-02

(File No: 9412/2022)

Proposed Rough Stone quarry lease over an extent of 2.75.00Ha at SF.No.616/3(Part-

2) of Kamandoddi Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.P.Venkata Reddy- for Environmental Clearance. (SIA/TN/MIN/439270/2023, Dated:05.08.2023)

The proposal was placed in 411th meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

# The SEAC noted the following

- The Project Proponent, Thiru.P.Venkata Reddy has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 2.75.00Ha at SF.No.616/3(PART-2) of Kamandoddi Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
- The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

File No	9412/2022 SIA/TN/MIN/439270/2023, Dated:05.08.2023		Category	В1	
SI.No	Salient Fea	atu	res of the Pro	posal	
1.	Name of the Owner/Firm	:	S/o. G. Pilla D.No. 2/60 Kamandodo Shoolagiri Ta	6/1, Kukkalapalli li post,	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone )	:	Rough Stone	e	
3.	S.F Nos. of the quarry site with area break-up	:	616/3(PART	-2)	
4.	Village in which situated	:	Kamandoddi		
5.	Taluk in which situated	:	Shoolagiri		
6.	District in which situated	:	Krishnagiri	<u> </u>	
7.	Extent of quarry (in ha.)	:	2.75.00Ha		

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<del></del>	Latitude & Longitude of all		12°40' 08.75"N to 12°39'58.96"N			
ο.	corners of the quarry site	•	77°56'57.55"E to 77°56'55.62"E			
9.	Topo Sheet No.	:	57-H/14			
10.	Type of mining	:	Opencast semi mechanized mining			
	Life of Project	:	5 years			
11.	Lease Period		5 years			
	Mining Plan Period	;	5 years			
		:	As per approved Mining Plan			
	Mining Plan Details		Rough Stone Top soil (Gravel)			
12.	Geological Resources m³	:	8,95,536 m³ 41,766m³			
12,	Minable Resources m <sup>3</sup>	:	3,22,317 m³ 28,803m³			
	Annual Peak Production in m <sup>3</sup>	:	1,04,699 m³ 19,827m³			
	Ultimate Depth in meters	:	43m (8m AGL + 35m BGL)			
13.	Depth of water table	:	72m BGL			
14.	Man Power requirement per day:	:	22 Employees			
15.	Water requirement:  1. Drinking water & Utilized water  2. Dust suppression  3. Green belt	•	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD			
	3. Green ben		TNEB			
16.	Power requirement	<b>:</b>	2,62,656 liters of HSD for the Entire Period			
17.	Precise area communication approved by the District Collector, Department of G&M.	:	Na.Ka.No.541/2022/Kanimam, dated:22.04.2022			
18.	Mining Plan approved by Deputy director, Department of G&M.	:	Rc.No. 541/2022/Mines, dated:10.06.2022.			
19.	by Deputy Director, Department of G&M,	:	Roc.No. 541/2022/Mines, dated:10.06.2022.			

20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Furnished Dated: Nil.			
21.	Project Cost (excluding EMP cost)	:	Rs.2,08,20	0,000/-	•	
			Validity	30 years subj following up		
		<b>:</b>	validity	Rough Stone	Top soil (Gravel)	
EC Recommendation	:	Max Total in m³	2,20,980m³	28,803m³		
		:	Annual Max in m³	88,625m³	19,827m³	
		:	Ultimate Depth in mtrs	43m (8m AGL BGL)	+ 35m	
23.	EMP cost (in Rs. Lakh).	:	Rs.55,50,0	062		
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs			
25.	EIA report submitted on	:	Dated:10.08.2023			
26.	ToR details	:	Lr.No:SEIAA-TN/F.No.9412/ToR- 1289/2022, Dated: 08.10.2022.			
27.	Public hearing details	:	Public I Dated:02.0	nearing cond 05.2023.	ucted on	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 88,625m³ of Rough stone & 19,827m³ of Gravel by maintaining the ultimate depth of mining up to 43m (i.e., 8 m AGL & 35 m BGL) and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a

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- maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 3. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 4. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 5. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry walls in a hilly terrain within a period of six months from the commencement of mining operations for evaluating the slope stabilization & protective measures at the ultimate pit limits, by involving any one of the reputed Research and Academic Institutions CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be

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- submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6. Under the Reg. 111 of MMR 1961, the PP shall apply for the extraction of common boundary existing adjacent to the quarry to the Director of Mines Safety (DMS), Chennai Region within a period of one year after the execution of lease for safety concerns. A copy of the permission granted by the DMS shall be sent to the AD (Mines), IRO/MoEF and SEIAA.
- 7. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Kamandoddi Village before obtaining CTO from TNPCB.

Agenda No: 411-03

(File No: 9689/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 3.35.5Ha at SF.No.275/1B,275/2A,238/1A, 238/1B,238/1C&238/1D of Siruthamur Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by Thiru.S.Rajendiran- for Environmental Clearance. (SIA/TN/MIN/439682/2023, Dated:09.08.2023)

The proposal was placed in 411th meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

# The SEAC noted the following

- The Project Proponent, Thiru.S.Rajendiran has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 3.35.5Ha at SF.No.275/1B, 275/2A, 238/1A, 238/1B, 238/1C & 238/1D of Siruthamur Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu.
- 2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- Principal Chief Conservator of Forests (PCCF) letter vide ref.no.WL5/3767/2023 dated 15.02.2023 stated that,

"....therefore as clarified in para 2 it is informed that the Eco Sensitive Zone of Karikili birds sanctuary may be taken to 6kms from the tank area. Beyond 6kms from the tank there is no restriction for any non forestry activities and also the question of default 10kms Eco Sensitive Zone not arise".

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Hence the PP has not obtained NBWL clearance as instructed in ToR.

4. The PP states that, there is a house located at a distance of 270-300m belonging to the mine owner and is used for office purpose.

Fil-	9689/2022				
File No	SIA/TN/MIN/439682/2023, Dated:09.08.2023		Category	B1	
SI. No	Salient Fea	tur	es of the Proposa	al	
1.	Name of the Owner/Firm		Thiru.S.Rajendiran S/O Sevagaperumal 2/4 Jothi Nagarmain Road Ekkattuthangal, Guindy, Chennai-600 032		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone &	Gravel	
3.	S.F Nos. of the quarry site with area break-up	:	275/1B, 275/2A, 238/1A, 238/1B, 238/1C & 238/1D		
4.	Village in which situated	:	Siruthamur	,	
5.	Taluk in which situated	:	Uthiramerur		
6.	District in which situated	:	Kancheepuram		
7.	Extent of quarry (in ha.)	;	3.35.5Ha	-	
8.	Latitude & Longitude of all corners of the quarry site	:	12°43' 17.16"N t 79°51'39.66"E to	to 12°43'24.52"N to 79°51'49.00"E	
9.	Topo Sheet No.	:	57-P/14		
10.	Type of mining	:	Opencast semi r	mechanized mining	
<u> </u>	Life of Project	:	5 years		
11.	Lease Period		5 years		
	Mining Plan Period	:	5 years		
	Mining Plan Details	:	As per app Rough Stone	roved Mining Plan Gravel	
	Geological Resources m <sup>3</sup>	:	16,09,056m³	67,044m³	
12.	Minable Resources m <sup>3</sup>	:	6,38,665m³	55,070m³	
	Annual Peak Production in m <sup>3</sup>	:	1,34,159m³	24,336m³	
	Ultimate Depth in meters	:	50m BGL		

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13.	Depth of water table	:	60m in summer season - 55m in Rainy season				
14.	Man Power requirement per day:	:	29 Employees				
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	5.8 KLD 0.300 KLD 1.5 KLD 2.0 KLD 2.0 KLD				
16.	Power requirement	:	TNEB 5,20,108liters of	of HSD will be	utilized		
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Na.Ka.No.302 dated:06.09.20	_			
18.	Mining Plan approved by Assistant director, Department of G&M.	:	Rc.No. 302/Q3/2020, dated:07.10.2021				
19.	500m Cluster Letter approved by Deputy Director, Department of G&M,	:	Rc.No. 302/Q3/2020, dated:07.10.2021				
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Furnished Dated: Nil				
21.	Project Cost (excluding EMP cost)	:	Rs.25,25,000/-				
		:	Validity	30 years sub following up	-		
			•	Rough Stone	Gravel		
22.	EC Recommendation	:	Max Total in m³	6,38,665 m³	55,070m 3		
		:	Annual Max in m³	1,34,159m³	24,336m 3		
		:	Ultimate Depth in mtrs	50m BGL			
23.	EMP cost (in Rs. Lakh).	:	Rs.257.45 Lakh	ns			
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs				
25.	EIA report submitted on	:	Dated:14.08.2023				

26.	ToR details	 Lr.No:SEIAA-TN/F.No.9689/SEAC/ToR- 1387/2023, Dated: 07.03.2023.			
27.	Public hearing details	: Public hearing conducted on Dated:06.06.2023.			

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 1,34,159m³ of Rough stone & 24,336m³ of Gravel by maintaining the ultimate depth of mining up to 50m BGL and subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 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 not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF,

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- TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 4. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 5. As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall join with other quarries operating in the same cluster area to monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 6. As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3rd year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore,

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

- 8. The PP shall ensure that the transport of materials shall not be carried out during school hours from 8AM-10AM and during 3PM -5PM (or as specified by the school administration).
- 9. The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 10. The PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 11. The PP shall construct an embankment of 1.5 m height along the road side & pond as a part of safety measure. Water ponds (small capacity) are being formed at different locations along the pond for providing drinking water for wild animals and birds.
- 12. The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site by carrying out the conservation measures meticulously.
- 13. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Arunkundram before obtaining CTO from TNPCB.
- 14. Since Karikili Birds Sanctuary is located at a distance of 8km, the PP shall deposit an amount of Rs.5 Lakhs to Wildlife warden, Guindy as a conservation measures.

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Agenda No: 411 - 04

(File No: 6551/2018)

Existing Black Granite Quarry over an extent of 1.38.0 Ha. at S.F. Nos. 109/17, 109/25A1, 109/25B, 109/26B & 109/28 of Ulagiyanallur Village, Kallakurichi Taluk, Villupuram District, by Tmt. R. Bhuvaneshwari – For Environmental Clearance. (SIA/TN/MIN/27887/2018 Dated:25.06.2018)

Earlier, this proposal was placed in 115<sup>th</sup> meeting of SEAC held on 28.06.2018, 368<sup>th</sup> SEAC meeting held on 19.04.2023, 384<sup>th</sup> SEAC meeting held on 16.06.2023. The details of the minutes are available in the website (www.parivesh.nic.in).

### The SEAC noted the following:

- 1. The Mining lease was granted Vide letter G.O.(3D) No.27 dated 07.09.2009 of Govt. Of Tamil Nadu for 20 Years for the period from 12.10.2009 to 11.10.2029.
- 2. The mining plan was approved by the Department of Geology & mining, Guindy, Chennai vide letter No.1141/MM5/2009, dated 20.08.2009 which was valid up to 11.09.2014.
- The PP has applied for ToR and the application was treated under violation, since the mining operation was carried out without obtaining environmental clearance.
- 4. ToR was issued vide letter no. SEIAA-TN/F.No.6551/ToR-413/2018 dated 05.06.2018.
- 5. ToR amendment was issued vide letter no. SEIAA-TN/F.No.6551/SEAC CXVIII/TOR 413(A)/2018 dated 30.07.2018.
- 6. Public Hearing As per MoEF& CC Office Memorandum F.No.22-28/2020.1A.III Dated: 12.11.2020 (Point No.5).

The SEAC critically analyzed the EIA report with reference to the technical points that should be covered as per the ToR issued to the proponent. The observations of the SEAC with reference to the ToR compliance is as follows:

- a. ToR conditions specified in section (F) at page no.7 of ToR have not been complied with.
- b. For a few cases the proponent has merely stated that "Proper mitigation measures will be planned". But they have not been specified in the proper.

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In view of the observations presented above, the SEAC decided to defer the project proposal and direct the proponent to revise the EIA/EMP report in line with the SEAC observations and submit the same to SEIAA-TN for further necessary action.

The PP has submitted the reply on 03.02.23. Based on the reply the proposal was placed in 368th SEAC meeting held on 19.04.2023.

The Project proponent has made a presentation along with clarification for the shortcomings observed by the SEAC.

During presentation, the PP made a representation to SEAC that public hearing may be waived for this proposal, in terms of latest OMs on the subject. SEAC after detailed discussions, decided to accept the PP's request for waiving of public hearing. Further, as the project comes under violation category, the Committee decided to make site inspection by a Sub-Committee to be constituted by SEAC. On receipt of the Inspection Report, the Committee will deliberate further and decide future course of action. As per the above letter the sub-committee visited the site on 25.02.2023.

The Sub Committee report was placed in 384th SEAC meeting held on 16.06.2023.

The SEAC Sub-Committee observed that the Mining of Black Granite in an extent of 1.38.0 Ha SF No. 109/17, 109/25A1, 109/25B, 109/26B & 109/28 for Environmental Clearance under violation comes under the "High level Ecological damage category" as per the SEAC Violation norms. Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Black Granite in an extent of 1.38.0 Ha SF No. 109/17, 109/25A1, 109/25B, 109/26B & 109/28 of M/s Tmt. R. Bhuvaneshwari may be considered for not exceeding the annual peak production capacity of 3334m<sup>3</sup> of ROM with an ultimate pit depth of not exceeding 17m below ground level subject to the certain conditions.

Based on the inspection report and documents furnished, SEAC decided to accept the recommendation made by the subcommittee and recommended the proposal for the grant of Environmental Clearance for the annual peak production capacity shall not

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exceed 3334m<sup>3</sup> of ROM with an ultimate pit depth of not exceeding 17m below ground level subject to the certain conditions.

The proposal was placed in 634th meeting of SEIAA held on 28.06.2023. The Authority noted that this proposal was placed for appraisal in 384th meeting of SEAC held on 16.06.2023 and based on inspection report and documents furnished, SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

In view of the above, the Authority decided that, the PP shall furnish current status of case filed by PP WP.No.9168 of 2019 and facts shall be intimated.

The PP submitted reply to SEIAA on 31.07.23. Based on the reply the proposal was placed in 645th meeting of SEIAA held on 08.08.2023.

The Authority noted that earlier this proposal was placed for appraisal in 115th Meeting of SEAC held on 28.06.2018 and deferred the proposal and directed the PP to revise the EIA/EMP report in line with the SEAC observations. The PP has submitted the reply on 03.02.2023. The reply was placed in 368th meeting of SEAC held on 19.04.2023 and the committee decided to make site inspection by a sub-committee to be constituted by SEAC. The inspection report was placed in 384th meeting of SEAC held on 16.06.2023 and based on inspection report and documents furnished. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein. In view of the above, the authority in its 634th meeting held on 28.06.23 decided that, the PP shall furnish current status of case filed by PP WP.No.9168 of 2019 and facts shall be intimated.

The PP has submitted reply stating that, as per orders dated 27.07.2023 "the writ petition stands closed as nothing survives for further adjudication", since SEAC itself has recorded the fact that a decision has been taken to waive public hearing.

The Authority noted that in counter affidavit filed by the SEIAA-TN on 08.11.2019, the Member Secretary, SEIAA has submitted that the PP has to conduct Public Hearing as per the Hon'ble High Court of Madras in its order dated 13.10.2017. Now the PP shown

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order of SEAC to court and the court has taken the cognizance of current order.

In view of the above, the Authority after detailed discussion decided to refer back the file to SEAC for valued opinion.

Accordingly, the proposal was placed in 411th meeting of SEAC held on 26.09.2023.

The Project proponent has made a presentation along with clarification for the shortcomings observed by the SEIAA.

With reference to the minutes of 645th meeting wherein the SEIAA, the PP submitted the following clarifications.

- 1. We had originally submitted our application for grant of Environmental Clearance to the MoEF through online on 12.01.2018.
- 2. On 09.04.2018 (after SEIAA was delegated with power to deal with the application for Environmental Clearance) we have applied for TOR to SEIAA.
- 3. On 30.05.2018 the project was appraised as a violation case (112th SEAC meeting).
- 4. On 05.06.2018 TOR was issued to us without insisting public hearing. Based on the ToR dated 05.06.2018, we have furnished EIA Report before 115 SEAC Meeting on 28.06.2018. After a detailed presentation the SEAC committee in its 115th Minutes of the Meeting directed the proponent to revise the EIA Report in line with SEAC observations without insisting for public hearing as per original EIA Notification and advised us to submit the revised EIA Report to SELAA for further necessary action.
- 5. Thereafter on 30.07.2018 amended ToR was issued asking for public hearing to be completed for proposals under violation category.
- 6. Challenging this we filed writ petition viz., W.P.No.9168 of 2019 before the Hon'ble High Court, Madras.
- 7. Counter affidavit was filed by SELAA on 08/11/2019 reiterating their stand that Public hearing is required. (ie.) Prior to issuance of Office Memorandum vide F.No.22-28/2020-IA.III. Dated 12th November 2020.
- 8. However, during the pendency of the writ petition MOEF issued office Memorandum dated 12.11.2020 by which it was clarified that if the nature of the project did not call for public hearing as per the original EIA notification, public

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hearing need not be insisted merely because the proposal is later considered under the violation category.

9. In the 368th meeting of SEAC held on 19.04.2023, SEAC considered the above official memorandum and decided to waive the public hearing.

10. However, when the matter was placed before SEIAA on 28.06.2023 (634th

meeting), we were informed that the status of the pending Writ petition should

be updated.

11. Thereafter on 27.07.2023, the Hon'ble High court recorded the

recommendation of SEAC in the 368th meeting held on 19.04.2023 regarding

waiver of public hearing based on the official memorandum of MOEF and also

recorded the submission of our counsel as well as reiteration of the same by the

Counsel for SEIAA that nothing survives for further adjudication and accordingly

closed the writ petition.

12. Now, there is absolutely no impediment for considering our proposal in the light

of the recommendation of SEAC as per the minutes of 368th meeting of SEAC

held on 19.04.2023, since the recommendation by SEAC is based on the latest

official memorandum dated 12.11.2020.

13. Finally, we would like to submit the Authority that both the Writ Petition No.

9168 of 2019 and the Counter Affidavit of Authority were filed prior to the

issuance of the Office Memorandum vide F.No.22- 28/2020-IA.III, Dated 12th

November 2020 and it is based on the Office Memorandum the SEAC had

exempted the Public Hearing process.

SEAC carefully examined the replies submitted by the PP on the points raised by SEIAA

and decided to re-iterate its recommendation already made in 384th meeting of SEAC

held on 16.06.2023. All the other conditions stated in minutes of 384th meeting of SEAC

remains unchanged and unaltered.

Agenda No: 411-05

(File No: 9064/2022)

Proposed construction of residential apartment and inclusion of existing building in T.

S Nos. 23/1A1 & 23/1B1, 24 & 25 (Old S.Nos. 531/1, 532 & 533), Ward No. 44 & Block

No. 30 Komarapalayam Village, Coimbatore South Taluk, Coimbatore District, Tamil

Nadu by M/s. V.Ravichandran & Co - For Environmental Clearance Name Transfer.

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SEAC -TN

## (SIA/TN/MIS/302465/2023, dated 22.07.2023).

The proposal was placed in 411th meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

#### The SEAC noted the following:

- 1. The Proponent, M/s. V.Ravichandran & Co has applied for Environmental Clearance Name Transfer for the Proposed construction of residential apartment and inclusion of existing building in T.S Nos. 23/1A1 & 23/1B1, 24 & 25 (Old S.Nos. 531/1, 532 & 533), Ward No. 44 & Block No. 30 Komarapalayam Village, Coimbatore South Taluk, Coimbatore District, Tamil Nadu.
- 2. The project/activity is covered under Category "B" of item 8(a) " Building & Construction Project" of the Schedule to the EIA Notification, 2006.
- 3. EC Issued vide Letter No. SEIAA-TN/F.No.9064/EC/8(a)/844/2021 dated: 14.06.2022 with a total built up area of 29,643.11 sq.m.
- 4. The land area of the proposed project is owned by Mrs. M. Sita, Mr. KO. Mohandurai, Mr. M. Sumanth, Master Sachin and have given the Power of Attorney (POA) to Mr. V. Ravichandran, Sole Proprietor of M/s. V. Ravichandran & Co.
- 5. Further, the Management decided to cancel the POA of M/s. V. Ravichandran & Co and made a fresh Agreement for Joint Development dated 24.03.2023 with M/s. WETECH HOMEFINDERS PRIVATE LIMITED. V. Ravichandran is also a director of Wetech Home finders Private Limited.
- 6. On account of this, the PP applied for Transfer of EC from M/s. V. Ravichandran & Co to M/s. WETECH HOMEFINDERS PRIVATE LIMITED.

#### The proposal was placed in 645th SEIAA Meeting held on 08.08.2023.

The authority noted that the PP has applied for Transfer of EC in the favour of "WETECH HOME FINDERS PRIVATE LIMITED" for the "Proposed construction of residential apartment and inclusion of existing building in T.S Nos. 23/1A1 & 23/1B1, 24 & 25 (Old S.Nos.531/1, 532 & 533), Ward No. 44 & Block No. 30 Komarapalayam Village, Coimbatore South Taluk, Coimbatore District, Tamil Nadu by M/s. V.Ravichandran. The PP has obtained EC vide EC letter , No.SEIAA-TN/F.No.9064/EC/8(a)/844/2021 dated 14.06.2022.

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As per Agreement for Joint Development furnished by the PP, SEIAA noted that the property to be developed measures about 3.23 Acres, whereas the PP has obtained EC for plot ground coverage area of 1.45 Acres.

In view of the above, the authority after detailed discussions decided to refer back the file to SEAC and SEAC is requested to appraise the project based on the above views.

Now the proposal was placed in 411th meeting of SEAC held on 26.09.2023. The Project proponent has made a presentation along with clarification for the shortcomings observed by the SEIAA.

Based on the presentation and documents furnished by the project proponent, SEAC noted that the total extent in the Agreement for Joint Development doesn't tally with EC given. Hence SEAC decided to recommend name transfer only for built-up area (29,643.11 sq.m) covering an extend of 1.45 acres issued in earlier EC. All other SEAC conditions stated in EC remains unchanged and unaltered. If necessary, PP may apply under expansion category for any increase in the land area.

Agenda No: 411-06

(File No: 6797/2019)

Proposed Rough Stone and Gravel quarry lease area over an extent of 4.85.62 Ha at S.F.Nos. 80/2A (P) & 81/1 (P) of Karunsamy Goundanpalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by Thiru. P. Sureshkumar - For Environmental Clearance. (SIA/TN/MIN/69072/2019, Dated: 11.11.2021)

The proposal was placed for appraisal in this 411th meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

- 1. The project proponent, Thiru. P. Sureshkumar has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 4.85.62 Ha at S.F.Nos. 80/2A (P) & 81/1 (P) of Karunsamy Goundanpalayam Village, Madukkarai Taluk, Coimbatore District.
- 2. The project/activity is covered under category "B" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
- 3. As per the precise area communication letter, the lease period if  $|\phi|$  years and

SEAC -TN

mine plan period is 5 years. As per the approved mine plan, the annual peak production shall not exceed 1,60,800 m<sup>3</sup> of Rough Stone and 39,900 m<sup>3</sup> of Gravel for an ultimate depth of 44m (14m above ground level + 30m below ground level).

- 4. ToR along with Public Hearing issued vide Lr No.SEIAA-TN/F.No.6797/SEAC/ TOR-635/2019 Dated: 16.08.2019
- 5. Public hearing conducted on 28.08.2021
- 6. EIA Report submitted on 18.08.2023
- 7. The salient features of the proposal are as follows:

	File No	6797 / 2019		Category B / 1(a)				
SI. No		Salient Fe	atu	ures of the Proposal				
1	Name of the Owner/Firm		:	Thiru. P. Sureshkumar, S/o. Ponnusamy, No.7/139, Nalla Thanni Thottam, Sulur Taluk, Kadampadi, Coimbatore District - 641 401.				
2		uarrying (Ordinary Granite/Limestone)	:	Rough Stone and Gravel				
3	S.F Nos. of area break-u	the quarry site with	:	80/2A (P) & 81/1 (P)				
4	Village in w	hich situated	:	Karunsamy Gounda	inpalayam			
5	Taluk in wh	ich situated	:	Madukkarai				
6	District in w	hich situated	:	Coimbatore				
7	Extent of qu	arry (in ha.)	:	4.85.62 Ha				
8	Į.	Longitude of all ne quarry site	:	10°51'32.92"N to 10 76°55'35.18"E to 76				
9	Topo Sheet	No.	:	58 – B/13	····			
10	Type of min	ing	:	Opencast Mechanized Mining				
	Life of Proje	ct	:	10 years				
11	Lease Period		: 10 years		· · · · · · · · · · · · · · · · · · ·			
	Mining Plan	Period	;	5 years				
12	Mining Plan	Details	:	As per approved As modified by Mining Plan SEAC				

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Rough   Stone   Gravel   Stone   Stone   Stone   Gravel   Stone   Gravel				T	1		,		
RoM    15,07.2				1	Gravel	_	Gravel		
Na.   Nos.   Na.   Nos.   Na.   Na		_	;			Stone			
Minable Resources m³ (RoM)   Rough Stone   Gravel Stone   Rough Stone		(RoM)		1		_	-		
Minable Resources m³ (RoM)    Stone   Cravel   Stone   Cravel   Stone   Cravel   7,39,99   99,750   3,22,04   61,050   m³   Minable Resources m³ (RoM)   Stone   Rough   Stone   Rough   Stone   1,60,80   39,900   67,120   20,790   m³   m³   Minable Resources m³ (RoM)   Stone   1,60,80   39,900   67,120   20,790   m³   m³   Minable Resources m³ (Rows)   Stone   1,60,80   39,900   67,120   20,790   m³   m³   Minable Resources m³ (Rows)   Stone   1,60,80   39,900   67,120   20,790   m³   Minable Resources m³ (Rows)   Stone   1,60,80   39,900   67,120   20,790   m³   Minable Resources m³ (Rows)   Stone   1,60,80   39,900   67,120   20,790   m³   Minable Resources m³ (Rows)   Rough   Stone   1,00,80   Resources m³ (Rows)				44 m³	m³				
Minable Resources m³ (RoM)   Stone   Stone   T.39,99   99,750   3,22,04   61,050   m³   m³   O m³   m³   O m³   m³   O m³   m³				Rough	Cravel	Rough	Cravel		
Annual Peak Production in m³  Annual Peak Production in m³  Ultimate Depth in meters  Ultimate Depth in meters  Depth of water table  13 Depth of water table  14 Man Power requirement per day:  Water requirement:  1. Drinking water  2. Utilized water  3. Dust suppression  4. Green belt  16 Power requirement  17 Precise area communication approved by District Collector  Mining Plan approved by Joint Director / Assistant Director (i/c). Department of G&M. Joint Director / Assistant Director (i/c) 500m Cluster Letter  20 VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP)  Rough Gravel Stone  Rough Strone  Rough Stone  Stone  19 Annual Peak Production in m³  Rough Stone  Stone		Minable Resources m <sup>3</sup> (RoM)		Stone	Graver	Stone	Ciavei		
Annual Peak Production in m³  Annual Peak Production in m³  Interpolation in m³  Interpolatio		window Resources III (Rowy	ļ .	7,39,99	99,750	3,22,04	61,050		
Annual Peak Production in m³    Stone				8 m³	m³	0 m³	m³		
Annual Peak Production in m³ : Stone   Stone   1,60,80   39,900   67,120   20,790   0 m³   m³   m³   m³   m³   m³   m³	1			Rough	Cravel	Rough	Cravel		
Ultimate Depth in meters    1,60,80   39,900   67,120   20,790   m³   m³   m³   m³   m³   m³   m³   m		Annual Peak Production in m <sup>3</sup>		Stone	Graver	Stone	Glavei		
Ultimate Depth in meters  244m (14m above ground level + 30m below ground level)  13 Depth of water table  14 Man Power requirement per day:  Water requirement:  1. Drinking water  2. Utilized water  3. Dust suppression  4. Green belt  2. O KLD  2. O KLD  2. O KLD  4. Green belt  2. O KLD  3. Dust suppression  4. Green belt  2. O KLD  4. Green belt  2. O KLD  3. Dust suppression  4. Green belt  4. Green belt  2. O KLD  3. Dust suppression  4. Green belt  3. Dust suppression  4. Green belt  4. Green belt  5.00 Liters of HSD / day  Na.Ka.No.459/Kanimam/2018, dated: 24.01.2019  Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M  Department of G&M  Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter  20 VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP; Rs. 1.26.38.264/-		Amuai reak Production in m		1,60,80	39,900	67,120	20,790		
Ultimate Depth in meters  iground level + 30m below ground level)  13 Depth of water table : 50m-55m bgl  14 Man Power requirement per day:  Water requirement:				0 m³	m³	m³	m³		
Oltimate Depth in meters   30m below ground level   30m below ground level   30m below ground level   30m below ground level   3 Nos.				44m (14	m above				
13 Depth of water table   14   15 Depth of water table   15 Som-55m bgl   16   17   18   18   18 Department of G&M   19 Department of G&M   19 Department of G&M   10 Department of G&M   17 Department of G&M   18 Department of G&M   19 Department of G		Illtimate Denth in meters		ground	level +				
13 Depth of water table : 50m-55m bgl  14 Man Power requirement per day:  Water requirement:		Ottimate Depth in meters		30m belo	w ground	-			
Man Power requirement per day:  Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt 2.0 KLD 2.0 KLD 2.0 KLD 2.0 KLD 2.0 KLD 3. Dust suppression 4. Green belt 2.0 KLD 3. Dust suppression 4. Green belt 3. Dust suppression 5.0 KLD 2.0 KLD 2.0 KLD 3. Dust suppression 4. Green belt 3. Na.Ka.No.459/Kanimam/2018, dated:24.01.2019  Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M  Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter  20 VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP : Rs. 1,26,38,264/-				level)					
Water requirement:  1. Drinking water  2. Utilized water  3. Dust suppression  4. Green belt  17 Precise area communication approved by District Collector  Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M  Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter  20 VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP)  15 5.0 KLD  1.0 KLD  2.0 SUD  2.0 KLD  2.0 KLD  2.0 KLD  2.0 SUD  2.0 KLD  2.0 SUD  2.0 SUD  2.0 KLD  2.0 SUD	13	Depth of water table	:	50m-55m bgl					
Water requirement:	14	Man Power requirement per		43 Nos.					
1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt 2.0 KLD 2.0 KLD 2.0 KLD 2.0 KLD 2.0 KLD 3. Precise area communication approved by District Collector  Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter  20 VAO Certificate Regarding Structures within 300m Radius  1.0 KLD 2.0 KLD		day:	•						
2. Utilized water 3. Dust suppression 4. Green belt 2.0 KLD 2.0 KLD 16 Power requirement 2: 500 Liters of HSD / day  Na.Ka.No.459/Kanimam/2018, dated:24.01.2019  Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M  Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter  20 VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP)  R. C.No.459/Mines/2018, dated: 26.04.2019  Letter furnished  Rs. 1,26,38,264/-		Water requirement:		5.0 KLD					
3. Dust suppression 4. Green belt 2.0 KLD 2.0 KLD 16 Power requirement 2.0 KLD 2.0 KLD  17 Precise area communication approved by District Collector  Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M  Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter  20 VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP : Rs. 1,26,38,264/-		<ol> <li>Drinking water</li> </ol>		1.0 KLD					
4. Green belt  2.0 KLD  16 Power requirement  2.0 KLD  17 Precise area communication approved by District Collector  Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M  Department of G&M, Joint Director / Assistant Director / (i/c) 500m Cluster Letter  20 VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP)  18 Department of G&M, Joint Circle Researching Structures within 300m Radius  20 Project Cost (excluding EMP)  20 Ra.No.459/Mines/2018, dated: 26.04.2019  Letter furnished  Rs. 1,26,38,264/-	15	2. Utilized water	:	-					
Precise area communication approved by District Collector  Mining Plan approved by Joint Director (i/c), Department of G&M  Department of G&M, Joint Director (i/c) 500m Cluster Letter  VAO Certificate Regarding Structures within 300m Radius  Precise area communication : Na.Ka.No.459/Kanimam/2018, dated: 24.01.2019  Rc.No.459/Mines/2018, dated: 05.03.2019  Rc.No.459/Mines/2018, dated: 26.04.2019  Letter furnished  Rc.No.459/Mines/2018, dated: 26.04.2019  Rc.No.459/Mines/2018, dated: 26.04.2019  Rc.No.459/Mines/2018, dated: 26.04.2019		3. Dust suppression		2.0 KLD					
Precise area communication approved by District Collector  Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M  Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter  VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP:  Na.Ka.No.459/Kanimam/2018, dated: 05.03.2019  Rc.No.459/Mines/2018, dated: 26.04.2019  Rc.No.459/Mines/2018, dated: 26.04.2019  Rc.No.459/Mines/2018, dated: 26.04.2019  Rc.No.459/Mines/2018, dated: 26.04.2019		4. Green belt		2.0 KLD					
approved by District Collector  Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M  Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter  VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP : Rs. 1,26,38,264/-	16	Power requirement	;	500 Liters	of HSD / o	day			
approved by District Collector  Mining Plan approved by Joint Director / Assistant Director : 05.03.2019  Department of G&M  Department of G&M, Joint Director / Assistant Director : 26.04.2019  VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP : Rs. 1,26,38,264/-		Precise area communication		Na.Ka.No	.459/Kanir	mam/2018,			
Mining Plan approved by Joint Director / Assistant Director: 05.03.2019  Department of G&M  Department of G&M, Joint Director: 26.04.2019  Director / Assistant Director: 26.04.2019  VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP: Rs. 1,26,38,264/-	17		:	dated:24.	01.2019				
18 Director / Assistant Director : 05.03.2019  (i/c), Department of G&M  Department of G&M, Joint Director : 26.04.2019  19 Director / Assistant Director : 26.04.2019  (i/c) 500m Cluster Letter  20 VAO Certificate Regarding Structures within 300m Radius : Rs. 1,26,38,264/-  21 Project Cost (excluding EMP : Rs. 1,26,38,264/-				Da N = 45	D-N- 450/M:/2010 J-4-J				
(i/c), Department of G&M  Department of G&M, Joint   Rc.No.459/Mines/2018, dated:  19 Director / Assistant Director   26.04.2019  (i/c) 500m Cluster Letter  20 VAO Certificate Regarding   Structures within 300m Radius   Rs. 1,26,38,264/-  21 Project Cost (excluding EMP   Rs. 1,26,38,264/-	1.0	1	_			no, dated:			
Department of G&M, Joint Director / Assistant Director : 26.04.2019  VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP : Rs. 1,26,38,264/-	18		:	05.03.20	05.03.2019				
19 Director / Assistant Director : 26.04.2019  20 VAO Certificate Regarding Structures within 300m Radius : Rs. 1,26,38,264/- : Rs. 1,26,38,264/-									
(i/c) 500m Cluster Letter  20 VAO Certificate Regarding Structures within 300m Radius  Project Cost (excluding EMP : Rs. 1,26,38,264/-		•				אוע, dated:			
20 VAO Certificate Regarding : Letter furnished : Structures within 300m Radius : Rs. 1,26,38,264/-	19	· ·	:	26.04.20	19		İ		
Structures within 300m Radius :  Project Cost (excluding EMP : Rs. 1,26,38,264/-									
Project Cost (excluding EMP : Rs. 1,26,38,264/-	20	1	:	Letter fur	nished		ļ		
21   '			Ĺ						
cost)	21		:	Rs. 1,26,3	8,264/-				
		cost)	Ŀ	<u> </u>		·····			

		:	Validity	30 years su the followi upper limit	ng	
			Rough Stone	Gravel		
		Max Total RoM in	3,22,040	61,05		
22	EC Recommendation	;	m³	m³	0 m <sup>3</sup>	
		:	Annual Max RoM	67,120	20,79	
		•	in m³	m³	0 m³	
	:		Max Depth in mtrs	44m (14m ground l 30m below level)	evel +	
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 42,71,174/- Recurring Cost – Rs. 21,98,402/-			
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-			

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 67,120 m³ of Rough Stone and 20,790 m³ of Gravel by maintaining the ultimate depth of mining upto 44m (14m above ground level + 30m below ground level) and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 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 immediately withdraw already delisted duplicate file applied under B2 category (Online Proposal No. \$IA/TN/MIN/35897/2019 dated: 08.05.2019).
- 3. The PP shall appoint a Statutory Mines Manager (I/II Class) before obtaining the CTO from the TNPCB.

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- 4. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 5. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 7. As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras Dept of Geology, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing

quarry wall during the 3rd year or when the depth exceeds 30m whichever is earlier. by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 9. The PP shall only carry out the NONEL-based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 10. The PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 11. The PP shall construct an embankment of 1.5 m height along the road side as a part of safety measure. Water ponds (small capacity) are being formed at different locations along the pond for providing drinking water for wild animals and birds.
- 12. As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the activities as committed towards the Panchayat Union Middle School, Pachapalayam Village, Madukkarai Taluk, Coimbatore District, before obtaining CTO from TNPCB.

Agenda No: 411-07

(File No: 8792/2021)

Proposed Rough Stone quarry lease area over an extent of 4.20.0 Ha at S.F.No. 86 (Part-5) of Venkatesapuram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. B. Elavarasan - For Environmental Clearance. (\$1A/TN/MIN/440488/2023, Dated: 16.08.2023)

The proposal was placed for appraisal in this 411th meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent arg given in the website (parivesh.nic.in). The SEAC noted the following:

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- The project proponent, Thiru. B. Elavarasan has applied for Environmental Clearance for the Proposed Rough Stone quarry lease area over an extent of 4.20.0 Ha at S.F.No. 86 (Part-5) of Venkatesapuram Village, Shoolagiri Taluk, Krishnagiri District.
- The project/activity is covered under category "B" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
- 3. As per the precise area communication letter, the lease period is 5 years and mine plan period is 5 years. As per the approved mine plan, the annual peak production shall not exceed 2,52,321 m<sup>3</sup> of Rough Stone for an ultimate depth of 51m (2m top soil + 49m Rough Stone).
- 4. ToR along with Public Hearing issued vide Lr No. SEIAA-TN/F.No.8792/SEAC/ ToR-1092/2021 Dated: 17.03.2022
- 5. Earlier in the ToR issued, production should not exceed 11,04,399 m³ of Rough Stone with an ultimate depth of 51m (2m top soil + 49m Rough Stone) below ground level.
- 6. Public hearing conducted on 03.05.2023
- 7. EIA Report submitted on 17.08.2023

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

- 1. The PP shall furnish the working hours of Govt. High School, Venkatesapuram and no. of crusher/quarry vehicles crossing the school in a day.
- 2. The PP shall furnish the following details:
  - (i) No. of students and staffs in the school.
  - (ii) No. of crushers/quarry located around the Govt. High School, Venkatesapuram and its aerial distance from the school boundary/compound wall and their vehicle movement routes.
- 3. The PP shall enumerate the structures located at a distance of 50m, 100m, 150m, 200m, 250m & 300m around the quarry site.
- 4. The PP has to furnish the habitation details located within 300m around the quarry site.

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

Agenda No: 411-08

(File No: 8904/2022)

Proposed Rough Stone and Gravel quarry lease area over an extent of 3.11.5 Ha at S.F.Nos. 277/1A, 277/1B, 277/1C, 277/1D, 277/1E, 277/1F, 277/2 & 280/2 of Siruthamur Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by Thiru. N. Kanniyappan - For Environmental Clearance. (SIA/TN/MIN/439997/2023, Dated: 10.08.2023)

The proposal was placed for appraisal in this 411th meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

- The project proponent, Thiru. N. Kanniyappan has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 3.11.5 Ha at S.F.Nos. 277/1A, 277/1B, 277/1C, 277/1D, 277/1E, 277/1F, 277/2 & 280/2 of Siruthamur Village, Uthiramerur Taluk, Kancheepuram District.
- 2. The project/activity is covered under category "B" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
- 3. As per the precise area communication letter, the lease period is 10 years and mine plan period is 5 years. As per the approved mine plan, the production shall not exceed 4,37,744 m³ of Rough Stone and 50,456 m³ of Gravel for an ultimate depth of 25m BGL.
- 4. ToR along with Public Hearing issued vide Lr No.SEIAA-TN/F.No.8904/SEAC/ ToR-1126/2021 Dated:23.03.2022
- 5. Earlier in the ToR issued, production should not exceed 4,37,744 m³ of Rough Stone & 50,456 m³ of Gravel with an ultimate depth of 25m (2m Gravel + 23m Rough Stone) below ground level.
- 6. Public hearing conducted on 23.06.2023

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- 7. EIA Report submitted on 11.08.2023
- 8. The PP stated that the proposal is located outside the Eco sensitive zone vide letter Ref.No.WL5/3767/2023 dated 15.02.2023 issued by PCCF and CWLW & Ref.No.WL5/17723/2022 dated 26.10.2022 and as such NBWL is not applicable. The PP has furnished the letter obtained from PCCF is as follows.
- 9. The salient features of the proposal are as follows:

	File No	8904 / 2022		Category		B / 1(a)	
SI. No		Salient F	tures of the	Proposal			
1	1 Name of the Owner/Firm		-	Thiru. N. Kanniyappan, S/o. Narayanapillai, No.55, Mariyamman Koil Street, Neerkundram Village, Aanampakkam Post, Uthiramerur Taluk, Kancheepuram District - 603 107.		n Koil Street, e,	
2	1 ' .	uarrying (Ordinary Granite/Limestone)	:	Rough Stone and Gravel			
3	S.F Nos. of area break-u	the quarry site with	:	277/1A, 277/1B, 277/1C, 277/1D, 277/1E, 277/1F, 277/2 & 280/2			
4	Village in w	hich situated	:	Siruthamu	r		
5	Taluk in whi	ich situated	:	Uthiramer	ur		
6	District in w	hich situated	:	Kancheepuram			
7	Extent of qu	arry (in ha.)	:	3.11.5 Ha			
8	1	Longitude of all ne quarry site	:			°43'25.86"N °51'40.03"E	
9	Topo Sheet	No.	:	57 – P/14			
10	Type of min	ing	:	Opencast	Mechanize	ed Mining	
	Life of Proje	ct	:	10 years			
11	11 Lease Period		:	10 years			
	Mining Plan Period			5 years			
12	Mining Plan	Details	;	: As per approved As modified b		As modified by SEAC	
12	Geological F (RoM)	Resources m <sup>3</sup>	;	Rough Stone	Gravel	Rough Gravel	

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		1		1	1			
			13,36,7	62,176	-			
			84 m³	m³				
			Rough	Gravel	Rough	Gravel		
	Minable Resources m³ (RoM)		Stone		Stone			
	Williams Resources III (Now)	•	6,10,35	50,456	_	_		
			4 m³	m³				
			Rough	Gravel	Rough	Gravel		
	Annual Peak Production in m <sup>3</sup>	١.	Stone	Clavel	Stone	Glavei		
	Attitual Feak Floudction III III	•	93,930	22,440				
			m³	m³	-	-		
	I llaim at a Danah in matana		25m belo	w ground				
	Ultimate Depth in meters	:	level		-			
13	Depth of water table	:	50m-55m	bgl				
14	Man Power requirement per		28 Nos.					
	day:	ľ						
	Water requirement:		3.8 KLD		•			
	Drinking water		1.3 KLD					
15	2. Utilized water	;	-					
	3. Dust suppression		1.0 KLD					
	4. Green belt		1.5 KLD					
16	Power requirement	:	TNEB		•	,		
	Precise area communication		Na.Ka.Nc	o.257/Q3/2	:020			
17	approved by Assistant Director,	:	Dated:06	.09.2021				
	Department of G&M							
	Mining Plan approved by		Rc.No.25	7/Q3/2020	Dated: 30	0.09.2021		
18	Assistant Director, Department	:						
	of G&M							
19	Department of G&M, Assistant		Rc.No.25	7/Q3/2020	Dated: 30	.09.2021		
17	Director 500m Cluster Letter	:						
20	VAO Certificate Regarding		Letter dat	ed 28.12.20	022			
20	Structures within 300m Radius	:						
21	Project Cost (excluding EMP		Rs. 64,25.	.000/-	······································			
	cost)	:	•					
			-		30 years s	ubject to		
	EC Dosommondation				the followi			
22	EC Recommendation	:	Validity		limits.	<b>~</b>		
			•		Rough			
				:	Stone 1	Gravel		
	<u> </u>				<u> </u>	4		

		:	Max Total RoM in 4,37,744 50,456			
		•	m³	m³	m³	
		Γ.	Annual Max RoM	93,930	22,440	
		:	in m³	m³	m³	
			May Donth in mtre	25m belo	w ground	
		]:	Max Depth in mtrs	level		
23	22 FAAD		Capital Cost – Rs. 67.35 lakhs			
25	EMP cost (in Rs. Lakh).	:	Recurring Cost – Rs.	25.43 lakhs		
			Rs. 5 lakhs to Pan	chayat Unic	on Primary	
			School, Siruthamoor	or Village, Kancheepuram		
24	CER cost (in Rs. Lakh).	١.	District.		:	
2 7	CER COSE (III NS. Lakii).	'	Rs. 5 lakhs to Ch	nief Wildlife	. Warden,	
			Guindy, Chennai towards conservation			
			measures for Karikili Bird Sanctuary.			

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 93,930 m³ of Rough Stone and 22,440 m³ of Gravel by maintaining the ultimate depth of mining upto 25m below ground level and subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 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 not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting

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operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 4. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 5. As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall join with other quarries operating in the same cluster area to monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 6. As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

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- 7. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3rd year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8. The PP shall ensure that the transport of materials shall not be carried out during school hours from 8AM-10AM and during 3PM -5PM (or as specified by the school administration).
- 9. The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 10. The PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 11. The PP shall construct an embankment of 1.5 m height along the road side & pond as a part of safety measure. Water ponds (small capacity) are being formed at different locations along the pond for providing drinking water for wild animals and birds.
- 12. The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site by carrying out the conservation measures meticulously.
- 13. As accepted by the Project proponent, Rs. 5 Lakhs shall be included in the EMP and the amount shall be spent towards conservation measures for Karikili Bird Sanctuary in consultation with the Chief Wildlife Warden, Guindy, Chennai, before obtaining CTO from TNPCB.

14. As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the activities as committed towards the Panchayat Union Primary School, Siruthamoor Village, Kancheepuram District, before obtaining CTO from TNPCB.

Agenda No: 411-09

(File No: 9331/2022)

Proposed Rough Stone and Gravel quarry lease area over an extent of 2.05.0 Ha at S.F.Nos. 603/1, 3, 604/2, 605/1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 & 23 of Lembalakudi Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu by Thiru. R. Balu - For Environmental Clearance. (SIA/TN/MIN/438785/2023, Dated: 01.08.2023)

The proposal was placed for appraisal in this 411th meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

- 1. The project proponent, Thiru. R. Balu has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 2.05.0 Ha at S.F.Nos. 603/1, 3, 604/2, 605/1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 & 23 of Lembalakudi Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu.
- 2. The project/activity is covered under category "B" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
- 3. ToR along with Public Hearing issued vide Lr No.SEIAA-TN/F.No.9331/ToR-1247/2022 Dated: 30.08.2022
- 4. Public hearing conducted on 07.03.2023
- 5. EIA Report submitted on 14.08.2023

Based on the presentation and documents furnished by the project proponent, the SEAC decided not to recommend the proposal for the grant of Environmental Clearance citing the following reasons:

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- 1. Habitations are located within 300m from the quarry site.
- Water bodies such as tank are abutting the quarry site.

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- 3. The quarry site is located in the water catchment area and hence the inflow of water to the tank may get severely affected.
- 4. Agricultural lands are located around the quarry site.
- 5. On review of the KML file it has been noticed that an unscientifically mined out pit is located abutting the southern side of the proposed quarry site leaving high unsafe walls.

Agenda No: 411-10

(File No: 9422/2022)

Proposed Rough Stone and Gravel quarry lease area over an extent of 2.89.0 Ha at S.F.No. 226/I (P) of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru. K. Nallasamy - For Environmental Clearance. (SIA/TN/MIN/440242/2023, Dated: 12.08.2023)

The proposal was placed for appraisal in this 411th meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

- The project proponent, Thiru. K. Nallasamy has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 2.89.0 Ha at S.F.No. 226/1 (P) of Kuppam Village, Pugalur Taluk, Karur District.
- 2. The project/activity is covered under category "B" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
- 3. As per the precise area communication letter, the lease period is 5 years and mine plan period is 5 years. As per the approved mine plan, the annual peak production shall not exceed 9846 m³ of Rough Stone for an ultimate depth of 12m below ground level.
- Earlier, EC was accorded to the proponent vide Lr. No.SEIAA-TN/F.No. 5130/ 1(a)/EC.No: 3551/2016 dated: 10.08.2016 for the quantity of 25,199 cu.m of Rough Stone upto a depth of 27m.
- 5. CCR obtained from IRO(SEZ), MoEF&CC vide E.P./12.1/2022-23/SEIAA/214/TN/1405 Dt:23.12.2022.

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- 6. ToR along with Public Hearing issued vide Lr No.SEIAA-TN/F.No.9422/SEAC/ ToR-1284/2022 Dated: 08.10.2022
- 7. Public hearing conducted on 14.06.2023
- 8. EIA Report submitted on 16.08.2023
- 9. The PP has furnished revised DD Mines letter dated 26.09.2023 indicating the existing depth of mining is 9 m against the previous EC permitted depth of 27 m.
- 10. The salient features of the proposal are as follows:

ļ	File No 9422 / 2022			Catego	ory	B / 1(a)		
SI. No		Salient F	eat	atures of the Proposal				
1	Name of the Owner/Firm		:	Thiru. K. Nallasamy, S/o. Krishnan, Door No. 4/71, R.G. Nagar, VTC Punnam Post, Punnamchatram, Pugalur, Karur District – 639 136.				
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			226/1 (P)				
4	Village in which situated			: Kuppam				
5	Taluk in which situated			: Pugalur				
6	District in w	hich situated	: Karur					
7	Extent of qu	Jarry (in ha.)	:	2.89.0 Ha				
8	Latitude & Longitude of all corners of the quarry site		:	10°59'56.71"N to 11°0'4.19"N 77°57'25.46"E to 77°57'32.25"E				
9	Topo Sheet	<u>.</u>	:	58-E/16 & 58-F/13				
10	Type of mir	ning	:	Opencast Manual Mining Method				
	Life of Project		:	5 years				
11	Lease Period		:	5 years				
	Mining Plan Period		:	5 years				
12	Mining Plan Details		:	As per approved Mining Plan  As modified by		As modified by SE	AC	
	Geological (RoM)	Resources m <sup>3</sup>	:	Rough Stone	Gravel	Rough Stone / Gravel		

CHAIRMAN

			2,17,50	3870	<del>_</del>		
			6 m <sup>3</sup>	m³	-	-	
			Rough		Rough		
	·		Stone	Gravel	Stone	Gravel	
	Minable Resources m³ (RoM)  Annual Peak Production in m³		41,392 m³	292 m³	-	-	
			Rough Stone	Gravel	Rough Stone	Gravel	
			9846 m³	-	-	-	
	Ultimate Depth in meters		12m below ground - level				
13	Depth of water table	:	50m-55m bgl				
14	Man Power requirement per day:	:	15 Nos.				
	Water requirement:		1.7 KLD				
	1. Drinking water		0.2 KLD : 0.5 KLD				
15	2. Utilized water						
	3. Dust suppression		0.5 KLD				
	4. Green belt		0.5 KLD				
16	Power requirement	:	174809 Liters of HSD				
	Precise area communication		Na.Ka.No.407/Kanimam/2021				
17	approved by Deputy Director, Department of G&M	:	Dated:27.06.2022				
	Mining Plan approved by		Rc.No.407/Mines/2021 Dated: 18.07.2023				
18	Deputy Director, Department of G&M	:					
19	Department of G&M, Deputy Director 500m Cluster Letter	:	Rc.No.407/Mines/2021 Dated: 20.07.2022				
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter furnished				
21	Project Cost (excluding EMP cost)	;	Rs. 44,50,000/-				
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.  Rough Stone			

	:		Max Total RoM in m <sup>3</sup>	41,392 m³	292 m³		
		:	Annual Max RoM in m <sup>3</sup>	9846 m³	-		
		:	Max Depth in mtrs	12m belo level	w ground		
23	EMP cost (in Rs. Lakh).	:	Capital Cost - Rs. 24.32 lakhs Recurring Cost - Rs. 3.82 lakhs				
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-				

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 9846 m³ of Rough Stone by maintaining the ultimate depth of mining upto 12m below ground level and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 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 not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and

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

- 4. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 5. The PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 6. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs, out of which Rs.2.30 Lakhs shall be spent for the activities as committed towards the Panchayat Union Middle School, Punnamchatram Village, Karur District, and Rs. 2.70 lakhs shall be spent for the activities as committed towards the Panchayat Union Primary School, Eruthikonpatti Village, Karur District, before obtaining CTO from TNPCB.

Agenda No. 411-11

(File No.8584/2023)

Proposed Rough Stone Quarry lease over an extent of 4.77.0Ha at S.F. Nos:20/1, 20/2, 270/2, 270/3, 270/4, 257/9, 257/8A & 257/10A of Panampatti Village, Illuppur Taluk, Pudukkottai District, Tamil Nadu by Tvl. Om Shri Vari Stones Pvt Ltd., – For Environmental Clearance (SIA/TN/MIN/440374/2023, Dated:14.08.2023).

The proposal was placed in the 411<sup>st</sup> Meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in).

## The SEAC noted the following:

1. The Proponent, Tvl. Om Shri Vari Stones Pvt Ltd., has applied for Environmental Clearance for the Proposed Rough Stone Quarry lease over nan extent of

MEMBER SECRETARY SEAC -TN CHAIRMÁN SEAC- TN

- 4.77.0Ha at S.F.Nos:20/1, 20/2, 270/2, 270/3, 270/4, 257/9, 257/8A & 257/10A of Panampatti Village, Illuppur Taluk, Pudukkottai 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 5 years. The mining plan is for the period of 5 years & production should not exceed 5.04,840 m³ of Rough Stone. The ultimate depth 45m.
- 4. Precise area communication letter has been granted and the mining plan prepared and got approved by Department of Geology and Mining vide Rc.No.33/2021 (G&M), Dated: 17.03.2021 for the extent of 4.77.0 Ha
- The Proponent applied for ToR to get Environmental Clearance in SEIAA on 06.05.2021 and ToR was granted over an extent of 4.77.0 Ha vide letter. No. SEIAA-TN/ F.No. 8584/SEAC/ToR-1028/2021, dated: 25.06.2021.
- 6. As per the ToR issued, the depth was restricted to 40m from 45m.
- 7. Minutes of Public Hearing Conducted on 08.06.2023.
- 8. EIA Report Submitted on 16.08.2023.
- 9. As per the Kml file uploaded by the PP in the online EC application, it is ascertained that the Topographical plan, google imaginary of the proposed site is varying from the documents submitted by the PP during ToR application.
- 10. Further, it is noted that the eastern portion of the Proposed site has been quarried after ToR issued.

Based on the presentation made and documents submitted SEAC decised to ask the PP to produce the following additional documents:

As mining operation has been done in the proposed site and the PP is claiming that was by way of encroachment by the neighbouring mine, he should submit a letter from the concerned AD (Mines) to indicate (i) whether there was any encroachment into the proposed quarry site by the neighbouring quarry operation and if so (ii) whether any penalty was levied for illegal mining and if not whether any penalty has been imposed on the PP.

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HAÌŘMAN SEAC- TN Agenda No. 411-12

(File No.8997/2023)

Proposed Rough stone & gravel quarry lease over an extent of 1.62.0 Ha at S.F.Nos. 319/1, 319/2, 319/3 & 319/4 of Sirudamur Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by Thiru. N. Kanniyappan— For Environmental Clearance (SIA/TN/MIN/439846/2023, Dated:09.08.2023).

The proposal was placed in the 411st Meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in). The SEAC noted the following:

- The Project Proponent, Thiru N. Kanniyappan has applied for Environmental Clearance for the Proposed Rough stone & gravel quarry lease over an extent of 1.62.0 Ha at S.F.Nos. 319/1, 319/2, 319/3 & 319/4 of Sirudamur Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu.
- The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
- As per the mining plan the lease period is 10 years. The mining plan is for the period of 5 years & production should not exceed 98276 m³ of Rough Stone and 27084 m³ of Gravel. The ultimate depth 20m BGL.
- 4. ToR issued vide Lr.No.SEIAA-TN/F.No.8997/SEAC/ToR-1256/2022 Dated:20.09.2022 stipulates that
  - "... The proponent shall obtain NBWL Clearance as the Karikili Birds Sanctuary is located within 10 km from the proposed mining area while submitting EIA study), along with minutes public hearing".
- 5. The PP has furnished the reason for not obtaining NBWL clearance and submitted a letter from the PCCF vide Ref.No.WL5/3767/2023 dated:15.02.2023 stating that
  - "...It is informed that the Eco Sensitive Zone of Karikilli Birds Sanctuary may be taken to 6kms from the tank area. Beyond 6 kms from the tank, there is no restriction for any non-forestry activities and also the question of default 10 kms Eco Sensitive Zone does not arise".
- 6. Minutes of Public Hearing Conducted on 23.06.2023.

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7. EIA Report Submitted on 11.08.2023.

8. The salient features of the proposed quarry as follows

	8997			1(a) - B1		
File No	Online Proposal: SIA/TN/MIN/439846/2023, Dated:09.08.2023		Category		EC	
SI. No	Salient Fe	atu	res of the Propo	osal		
1.	Name of the Owner/Firm	-	Thiru.N.Kanni S/o.Narayanap No.55, Mariya Aanampakkan Neerkundram, Uthiramerur T Kancheepuram	oillai, imman i Post, aluk,	Kovil,	07.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone )	:	Rough stone & gravel quarry			
3.	S.F Nos. of the quarry site with area break-up	:	319/1, 319/2, 319/3 & 319/4			
4.	Village in which situated	:	Sirudamur			
5.	Taluk in which situated	:	Uthiramerur			
6.	District in which situated	:	Kancheepuran	1		
7.	Extent of quarry (in ha.)	:	1.62.0Ha			
8.	Latitude & Longitude of all corners of the quarry site	:	12°43'4.71" N 79°51'0.49"E t			N
9.	Topo Sheet No.	<u> </u> :	57- P/14			
10.	Type of mining	:	Opencast Sem Method	i Mech	anized <i>N</i>	Mining
	Life of Project	:	10 years			•
11.	Lease Period		10 years		<b>_</b>	•
	Mining Plan Period	:	5 years			
12.	Mining Plan Details	:	As per approved Mining Plan	As	modifie	d by SEAC
	Geological Resources m³ (RoM)	:	Rough Stone- 517376 m <sup>3</sup>	Roo m³	ugh Støi	± 517376

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	<u> </u>	,			
			Gravel	Gravel	
			48504 m³	48504 m³	
:	Minable Resources m³ (RoM)	:	Rough Stone - 141596 m³	Rough Stone - 141596 m <sup>3</sup>	
			Gravel 27084 m³	Gravel 27084 m³	
	Annual Peak Production in m3	ļ ,	Rough Stone – 21600 m³	Rough Stone – 21600 m³	
i			Gravel 27084 m³	Gravel 27084 m³	
	Maximum Depth in meters	:	20m BGL		
13.	Depth of water table	:	65m Summer Sea	son- 55m Rainy Season	
14.	Man Power requirement per day:	:	26 Nos.		
	Water requirement:		3.800 KLD		
	<ol> <li>Drinking water&amp;</li> </ol>		1.300 KLD		
15.	Utilized Water		1.0 KLD		
	2. Dust suppression		1.5 KLD		
	<ol><li>Green belt</li></ol>				
16.	Power requirement		TNEB 78624 Liters of 1	HSD	
17.	Precise area communication approved by the Assistant Director, Department of G&M, District Collectorate	:	Rc.No.740/Q3/2 dated: 19.10.202		
18.	Mining Plan approved by Assistant Director, Department of G&M Mines	:	Rc.No.740/Q3/2018, dated: 10.12.2020.		
19.	Assisatnt Director, Department of G&M Mines 500m Cluster Letter		Rc.No.740/Q3/2018, dated: 11.12.2020.		
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated: nil		
21.	Project Cost (excluding EMP cost)	:	Rs. 60,69,000/-		

		:	Validity	30 years subject to the following upper limits.			
	EC Recommendation			Rough Stone	Gravel		
22.	EC Recommendation		Max Total	98276	27084		
		•	RoM in m <sup>3</sup>	m³	m³		
		Γ.	Annual Max	21600 m <sup>3</sup>	27084		
		-	RoM in m <sup>3</sup>	21000 111	m³		
			Max Depth in 20m BGL				
			mtrs				
			Capital -Rs. 42.32 Lakhs				
23.	EMP cost (in Rs. Lakh).	:	Recurring-Rs.14.05 Lakhs/annum				
			Recurring For 10 years -Rs. 176.98 Lakh				
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- a	is accepted b	y the PP		
25	T-0.1J		Lr No.SEIAA-TN	F.No. 8997	/SEAC/ToR-		
25.	ToR Issued		1256/2022 Dated:20.09.2022.				
26.	Public Hearing		23.06.2023				
27.	EIA Report Submitted		11.08.2023				

Based on the presentation and documents furnished by the project proponent. SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 21600 m³ of rough stone & 27084 m³ of Gravel by maintaining the ultimate depth of mining upto 20m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 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 not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned

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- licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 4. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 5. As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall join with other quarries operating in the same cluster area to monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 6. As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution CSIR-Central Institute of Mining & Puel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering IIIT-Madras,

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

- 7. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3rd year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8. The PP shall ensure that the transport of materials shall not be carried out during school hours from 8AM-10AM and during 3PM -5PM (or as specified by the school administration).
- 9. The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 10. The PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 11. The PP shall maintain safety distance of 50m for the Siridamur Pond located nearby and the PP shall carry out the required number of tree plantations as committed in the EMP in the above-mentioned safety area without deviation before the execution of the lease.

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- 12. The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site by carrying out the conservation measures meticulously.
- 13. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government High School, Anampakkam Village before obtaining CTO from TNPCB.
- 14. In addition to that the PP shall remit Rs. 5.0 lakhs to Wildlife warden, Chennai as Conservation/mitigation measures for the Karikili Bird Sanctuary since the site is within 10km radius.

Agenda No. 411-13

(File No.9347/ 2022)

Proposed Rough stone & Gravel quarry lease over an extent of 0.82.0 Ha in S.F.Nos. 425/29 of Lembalakudi Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu by Thiru.M.Radakrishnan- For Environmental Clearance (SIA/TN/MIN/ 438460/2023, Dated:29.07.2023)

The proposal was placed in the 411<sup>st</sup> Meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in). The SEAC noted the following:

- 1. The Project Proponent, Thiru M. Radakrishnan has applied for Environmental Clearance for the Proposed Rough stone & Gravel quarry lease over an extent of 0.82.0 Ha in S.F.Nos. 425/29 of Lembalakudi Village, Thirumayam Taluk, Pudukkottai 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 5 years. The mining plan is for the period of 5 years & production should not exceed 38690 m³ of Rough Stone and 16206 m³ of Gravel. The ultimate depth 13m BGL.
- 4. ToR issued vide Lr.No.SEIAA-TN/F,No.9347/SEAC/ToR-1233/2022 Dated:30.08.2022.
- 5. Minutes of Public Hearing Conducted on 23.03.2023.
- 6. EIA Report Submitted on 14.08.2023.

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## 7. The salient features of the proposed quarry as follows

	9347			1(a) - B1		
File No	Online Proposal: SIA/TN/MIN/438460/2022, Dated: 29.07.2023		Category	EC		
SI. No	Salient Features of the Proposal					
1.	Name of the Owner/Firm	•	Thiru.M.Radha S/o. Muthuvel No.4-32A, Par thulaiyanoor F Thirumayam T Pudukottai Dis	ali konapet, Post, Faluk,		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone )	·	Rough stone & Gravel quarry			
3.	S.F Nos. of the quarry site with area break-up	:	425/29			
4.	Village in which situated	:	Lembalakudi			
5.	Taluk in which situated	:	Thirumayam			
6.	District in which situated	:	Pudukottai			
7.	Extent of quarry (in ha.)	:	0.82.0Ha			
8.	Latitude & Longitude of all corners of the quarry site	;		to 10°16'49.40"N to 78°43'29.34"E		
9.	Topo Sheet No.	:	58-J/11			
10.	Type of mining	:	Opencast Sem Method	i Mechanized Mining		
	Life of Project	:	10 years			
11.	Lease Period		10 years			
	Mining Plan Period	:	5 years			
	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC		
12.	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone- 531960 m <sup>3</sup> Gravel	Rough Stone- 531960 m³ Gravel A		
	(Norw)		24552 m³	24552 m		

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	Minable Resources m³ (RoM)	:	Rough Stone - 38690 m³	Rough St	on	e - 38690	
			Gravel 16206 m³	Gravel 16206 m	3		
	Annual Peak Production in m3		Rough Stone – 9120 m³	Rough St	on	e – 9120	
	Annual Fear Floudenon in mis	•	Gravel 8103 m³	Gravel 8103 m³		u.	
	Maximum Depth in meters	:	13m BGL	•			
13.	Depth of water table	:	75m Summer Sea	son- 70m	Ra	iny Season	
14.	Man Power requirement per day:	:	18 Nos.				
15.	Water requirement:  1. Drinking water& Utilized Water  2. Dust suppression  3. Green belt		1.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD				
16.	Power requirement		TNEB 33,6444 Liters of HSD				
17.	Precise area communication approved by the Assistant Director, Department of G&M, District Collectorate	:	Rc.No.85/2021 (G&M), dated: 30.05.2022.				
18.	Mining Plan approved by Assistant Director, Department of G&M Mines	:	Rc.No.85/2021 (G&M), dated: 03.06.2022.				
19.	Assisatnt Director, Department of G&M Mines 500m Cluster Letter		Rc.No.85/2021 (G&M), dated:03.06.2022.				
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated: Nil				
21.	Project Cost (excluding EMP cost)	:	Rs. 31,56,000/-				
22.	EC Recommendation	:	Validity  30 years subject to the following upper limits.  Rough Stone			g upper	
					Ш	1	

		:	Max Total RoM in m <sup>3</sup>	38,690 m³	16,206 m³		
		:	Annual Max RoM in m <sup>3</sup>	9120 m³	8103 m <sup>3</sup>		
		:	Max Depth in mtrs	13m BGL			
23.	EMP cost (in Rs. Lakh).	:	Capital –Rs. 456400/- Recurring-Rs.377240/-annum Recurring For 5 years –Rs. 2540889/-				
24.	CER cost (in Rs. Lakh).	:	Rs. 5.0 lakhs as accepted by the PP				
25.	Tor Issued		Lr No.SEIAA-TN/F.No. 9347/SEAC/ToR-1233/2022 Dated:30.08.2022.				
26.	Public Hearing		23.03.2023				
27.	EIA Report Submitted		14.08.2023				

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 9120 m³ of rough stone & 8103 m³ of Gravel by maintaining the ultimate depth of mining upto 13m BGL and subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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

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Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 3. Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of six months from the date of lease execution, by involving any one of the reputed Research and Academic Institution CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 4. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations to the concerned AD (Mines) at the time of execution of lease.
- 5. The PP shall construct an embankment of 1.5 m height along the mine lease boundary adjoining the neighbouring quarry as a part of safety measure.
- 6. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Middle School, Thirumayam Village before obtaining CTO from TNPCB.

Agenda No: 411 - 14

(File No: 9159/2023)

Proposed Rough stone & gravel quarry lease over an extent of 0.84.5Ha in S.F.Nos.545/2, Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu by Tmt K.Rani\_ - For Environment Clearance. (SIA/TN/MIN/440383/2023 dated: 15/08/2023) The proposal was placed in this 411th meeting of SEAC held on 27.09.2023. The Project Proponent made a detailed power point presentation about the proposed project. The details of the project furnished by the proponent are available in the website

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### (parivesh.nic.in). The SEAC noted the following among other things:

- 1. The Project Proponent, Tmt. K.Rani has applied seeking Environment Clearance for the proposed Rough stone & gravel quarry lease over an extent of 0.84.5Ha in S.F.Nos.545/2, Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu.
- 2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.
- 3. ToR issued vide. Lr No.SEIAA-TN/F.No.9159/SEAC/ToR- 1183/2022 Dated: 05.07.2022 for EIA study.
- 4. Final EIA report furnished along with ToR compliance status. The Committee observed that the PP has generally complied with the conditions imposed in the ToR and has carried out hydrogeological study, cumulative impact study etc.
- 5. Public Hearing conducted on 14.06.2023 and minutes furnished. PP has furnished action plan for the objections raised during public hearing.
- 6. PP has proposed manual method of mining.
- In his letter dated 08.06.2022, the DFO has stated that there are no Protected
  Forests/ Tiger Reserves / Wild life Sanctuaries within a distance of 25km from
  the mine lease area.

	8767 EIA (16.08.2023)		B1
File No	SIA/TN/MIN/440383/2023 dated: 15/08/2023	Category	EC
SI. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	1 • 1	Kamaraj ar,Punnam Village :hatram Post Taluk
2.	Type of quarrying (Ordina Stone/Sand/Granite/Limestone)	Rough St	one & Gravel

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	S E Nos of the guarry site with area		545/2		
3.	S.F Nos. of the quarry site with area break-up	:			
4.	Village in which situated	:	Kuppam		
5.	Taluk in which situated	:	Pugalur		
6.	District in which situated	:	Karur		
7.	Extent of quarry (in ha.)	:	0.84.5Ha-Patta Lar	nd	
8.	Latitude & Longitude of all corners		11°0'38.94"N to 11°	0'41.21"N	
0.	of the quarry site	;	77°56'27.52"E to 7	7°56'32.36"E	
9.	Topo Sheet No.	:	58 – E/16		
10.	Type of mining	:	Opencast Manual r	nethod of Mining	
	Life of Project	:	10 years		
11.	Lease Period		10 years		
	Mining Plan Period	:	5 years		
	Mining Plan Details		As per approved	As modified by	
	Willing Facili Details		Mining Plan	SEAC	
			188350 m <sup>3</sup> of		
	Geological Resources m³ (RoM)		Rough stone,	-	
			11400 m <sup>3</sup> of		
			Gravel		
12.			55640 m³ of	34060 m³ of	
	Minable Resources m³ (RoM)		Rough stone, 6075 m³ of	Rough stone 6075 m³ of	
			6075 m³ of Gravel	6075 m³ of Gravel	
		Н	6990 m³ of	Gravei	
	Annual Peak Production in m <sup>3</sup>		Rough stone	-	
	Maximum Depth in m		25m	20m	
13.	Depth of water table	:	55m – 50m BGL		
14.	Man Power requirement:	:	16 Nos		
	Water requirement:		2.0 kLD		
	Drinking water		1.0 kLD		
15.	2. Dust suppression	:	0.5 kLD		
	3. Green belt		0.5 kLD		
16.	Power requirement		TNEB		
	Precise area communication		Rc.No.291/Kanima	m/2021,	
17.	approved by the Department of	:	dt:02.03.2022	_	
	G&M.			(\)	

18.	Mining Plan approved by	Ι.	Rc.No.291/Mines/2	2021,	
10.	Department of G&M.	:	dt:28.03.2022		
-	500m Cluster Letter issued by		Rc.No.291/Mines/2	2021,	
19.	Department of G&M, Deputy	ļ	dt:04.04.2022		
	Director				
20.	VAO Certificate regarding		Letter dated: Nil		
20.	Structures within 300m Radius				
21.	Project Cost (excluding EMP cost)	:	Rs.18.25 Lakh		
				30 years	subject
				to the following	
		:	Validity	upper limits.	
				Rough	Gravel
				Stone	Gravei
	EC Recommendation		Max Total RoM	34060	6075
22.	20 Nooshinendanon	Ŀ	in m³	3 1000	00.5
		۱.	Annual Max RoM	6990	_
			in m3		
				`	Jltimate
		l :	Max Depth in m	depth)	
			•	_	roposed
		<u> </u>		for 5 yea	rs)
23.	EMP cost (in Rs. Lakh).	:	Rs.50.43 Lakh		
24.	CER cost (in Rs. Lakh).	:	Rs.5.0 Lakhs		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak RoM production capacity not exceeding 6990 m³ of Rough stone by maintaining the ultimate depth of mining of 20m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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

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- 2. For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and existing quarry high walls during the 3<sup>rd</sup> year of quarrying operation, by involving anyone of the reputed Research and Academic Institutions CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, 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.
- 3. Since the water bodies such as canal are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of two years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, University of Madras Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 4. The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site by carrying out the conservation measures meticulously.
- As accepted by the Project Proponent the CER cost of Rs. 2.30 lakhs and the amount shall be spent for the activities as committed towards the Panchayat Union Middle School, Punnamchatram Village, Karur District, before obtaining CTO from TNPCB.
- 6. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs, out of which Rs.2.30 Lakhs shall be spent for the activities as committed towards the Panchayat Union Middle School, Punnamchatram Village, Karur District, and Rs. 2.70 lakhs shall be spent for the activities as committed towards the Panchayat Union Primary School, Athanur Village, Karur District, before obtaining CTO from TNPCB.

Agenda No: 411 - 15

(File No: 9320/2023)

Proposed Rough Stone Quarry lease over an extent of 2.38.5Ha in S.F.Nos.1267/2, 1268/2, 1268/3 of Kamandodi Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.P. Venkata Reddy - For Environment Clearance. (SIA/TN/MIN/439564/2023 dt:08.08.2023).

The proposal was placed in this 411th meeting of SEAC held on 27.09.2023. The Project Proponent made a detailed power point presentation about the proposed project. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following among other things:

- 1. The Project Proponent, Thiru.P. Venkata Reddy has applied seeking Environment Clearance for the proposed Rough stone quarry lease over an extent of 2.38.5Ha in S.F.Nos.1267/2, 1268/2, 1268/3 of Kamandodi Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
- 2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.
- 3. EC issued vide Lr.No.SEIAA-TN/F.No.5883/1(a)/EC.No.3902/2016 dated 13.06.2017
- 4. CCR obtained vide Lr.No E.P/12.1/2022-23/SEIAA/103/TN/993 dated 19.09.2022
- ToR issued vide. Lr No.SEIAA-TN/F.No.9320/SEAC/ToR- 1237/2022 Dated: 30.08.2022.
- Final EIA report furnished along with ToR compliance status. The Committee
  observed that the PP has generally complied with the conditions imposed in
  the ToR and has carried out hydrogeological study, biodiversity study, traffic
  impact assessment study etc.
- 7. Public Hearing conducted on 02.05.2023 and minutes furnished. PP has furnished action plan for the objections raised during public hearing.
- 8. In his letter dated 16.09.2022, the DFO, Hosur has stated, among other things, that Cauvery North Wildlife Sanctuary is located at a distance of 13.7 km from the mine lease area.

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	9320 SIA/TN/MIN/439564/2023 dt:08.08.2023		-	B1		
File No			Category		EC	
SI. No	Salient Features of the Proposal					
			Thiru.P.Venkat	arec	ldy	
			S/o. G. Pillared	ldy		
1.	Name of the Owner/Firm	1.	Kukkalapalli			
••	Name of the Owner/Time	'	Kammandoddi	i		
			Shoolagiri Talu	ık		
			Krishnagiri - 63	3510	9	
2.	Type of quarrying (Ordinary		Rough stone			
۷.	Stone/Sand/Granite/Limestone)	•				
	S.F Nos. of the quarry site with area	1	1267/2, 1268/2	2, 12	68/3	
3.	break-up					
	•					
4.	Village in which situated	<u> </u> :	: Kamandodi			
5.	Taluk in which situated	:	: Shoolagiri			
6.	District in which situated	:	Krishnagiri			
7.	Extent of quarry (in ha.)	:	2.38.5Ha (Patta land)			
8.	Latitude & Longitude of all corners		12°39'42.99"N to 12°39'41.44"N			
	of the quarry site	Ŀ	77°57'41.79"E 1	to 7	7°57'33.09"E	
9.	Topo Sheet No.	<u> </u> :	57- H/14			
10.	Type of mining	:	Open cast mec	hani	zed mining	
	Life of Project	:	10 years			
11.	Lease Period		5 years			,
	Mining Plan Period	:	5 years			
	Mining Plan Details	:	As per approv Mining Plan	ved	As modified SEAC	by
			944148 m³	of		
	Geological Reserves m³ (RoM)		Rough stone		-	
12.	Administration of the second	$\vdash$	415447 m³	of	276721 m³	of
	Minable Resources m³ (RoM)		Rough stone		Rough stone	
	Appual Pools Production in2		131528 m³	of	110433 m³	of
	Annual Peak Production in m3		Rough stone		Rough stone	
	Maximum Depth in meters	: 43m BGL		41m BGL		
13.	Depth of water table	:	70m-80m			
14.	Man Power requirement:	:	: 14 Nos			
	<u> </u>		1			

15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	2.0 kLD 1.0 kLD 0.5 kLD 0.5 kLD		
16.	Power requirement		TNEB power suppl		
17.	Precise area communication approved by the Department of G&M.	:	Roc.No.721/2015/Mines-2 Dated:		
18.	Mining Plan approved by Department of G&M.	:	1st Scheme of minin Roc.No.1123/2021/ 23.04.2021 for a poto 2026-2027.	_	
19.	500m Cluster Letter issued by Department of G&M		Rc.No. 1123/20 19.05.2022	21/Mines Dated:	
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated: 03.03.2022		
21.	Project Cost (excluding EMP cost)	:	Rs.65.90 Lakh		
		:	Validity	30 years subject to the following upper limits. Rough Stone	
22.	EC Recommendation	:	Max Total RoM in m <sup>3</sup>	276721 m³	
			Annual Max RoM in m <sup>3</sup>	110433 m³	
		:	Max Depth in m	41m BGL	
23.	Total EMP cost (in Rs. Lakh).	:	Rs. 56,56,389/- inflation @5% eve	including cost of ry year	
24.	CER cost (in Rs. Lakh).	:	Rs. 10.0 Lakh	<del></del>	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak RoM production capacity not exceeding 110433 m³ of Rough stone by maintaining the ultimate depth of mining of 41m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stripulated by MOEF &CC, in addition to the following specific conditions:

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- 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.
- The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 3. The PP shall furnish a Standard Operating Procedures (SoP) which includes appointment of statutory personnel and mode of transport / storage of explosives for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 4. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5. For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and existing quarry high walls within a period of two years from the date of lease execution, by involving anyone of the reputed Research and Academic Institutions CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, and

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- 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.
- 6. Since the water bodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of two years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, University of Madras Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7. The PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 8. As accepted by the Project Proponent the CER cost of Rs.10.0 lakh and the amount shall be spent for the committed activities at Kammandoddi Primary School and Government Primary School, Konerapalli before obtaining CTO from TNPCB.

Agenda No: 411-16

(File No: 9180/2022)

Proposed Rough stone & Gravel quarry lease over an extent of 2.45.0 Ha in S.F.No: 96/4, 98/1, 98/2, & 98/3, Kannagudi Village, Kulathur Taluk Pudukkottai District, Tamil Nadu by Thiru. TMR. Rajha Sivakumar - For Environmental Clearance. (SIA/TN/MIN/265622/2022 Dt.06.04.2022)

The proposal was earlier placed for appraisal in 293<sup>rd</sup> meeting of SEAC held on 8.7.2022. The Project Proponent made a detailed presentation on the proposed

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project. The details of the project furnished by the proponent are available on the PARIVESH web portal (www.parivesh.nic.in).

#### The SEAC noted the following among other things:

- 1. The Project Proponent, Thiru. TMR. Rajha Sivakumar has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 2.45.0 Ha in S.F.No: 96/4, 98/1, 98/2, & 98/3, Kannagudi Village, Kulathur Taluk Pudukkottai 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.
- Environmental Clearance issued vide Lr. No. SEIAA-TN/F.No.3128/EC.1(a)/ 2978/2016 dated 19.01.2016 valid for 5 years for the proposed depth of 18m and 144805 cbm Rough stone.
- 4. SEAC further noted that the presence of 2 nos .of existing pits with depth 17m and 20m.

Based on the presentation made by the proponent, the SEAC called for certified compliance report obtained from MoEF&CC/TNPCB on the existing EC issued. The Proponent furnished the copy of CCR issued by the IRO, Chennai vide CCR Lr. No. (F. No EP/12.1/2022-23/SEIAA/130/TN/1152) dated 31.10.2022 and hence the proposal was placed in the 356th meeting of SEAC held on 15.02.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the conditions stated therein.

The subject was subsequently placed in the 642<sup>nd</sup> meeting of Authority held on 28 .07.2023. The Authority noted that the subject was earlier placed in the 602<sup>nd</sup> meeting of Authority held on 14.03.2023 and it was minuted that,

This is an existing quarry operated by the same Project Proponent. Whereas the depth of the existing pits mentioned in the mining plan approval is more than the depth permitted in the Environmental Clearance Lr. No. SEIAA-TN/F.No.3128/EC.1(a)/2978/2016 dated 19.01.2016 issued for this project. Hence the Project Proponent shall obtain and furnish clarification letter from the AD/Mines of the concerned District in this regard.

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The Project Proponent vide letter dated Nil received on 25.07.2023 has furnished the copy of AD/mines letter No. 317/2021(G&M) dated 21.07.2023 wherein it is stated that.

The subject land was previously held under lease in favour of Thiru.TMR.Rajha Sivakumar, \$/o.R.Ramanujam for a period of five years from 21.06.2016 to 20.06.2021 vide District Collector's proceedings Rc.No.1498/2012 (G&M) dt.09.10.2014. Further, the project proponent Thiru.TMR.Rajha Sivakumar, \$/o. R. Ramanujam has removed Rough stone over an extent of 0.11.22 hects., to the depth of 2m beyond the approved depth of 18m. In this connection, an amount of Rs.1.32.396/- (Rupees One Lakh Thirty-Two Thousand Three Hundred and Ninety-Six Only) collected and the copy of remitted challan is enclosed herewith. In the view of the above, it is recommended for grant of Environment Clearance in favour of the project proponent for the quarrying of rough stone in \$.F.Nos.96/4(1.74.0), 98/1(0.11.5), 98/2 (0.48.0) & 98/3 (0.11.5) of Kannagudi Village, Kulathur Taluk, Pudukkottai District.

In view of the above, the Authority decided to refer back the proposal to SEAC along with the AD/Mines letter.

Hence the subject was taken up for discussion in this 411th meeting of SEAC held on 27.09.2023. SEAC noted that the AD/Mines letter No. 317/2021(G&M) dated 21.07.2023 has reported that the project proponent Thiru.TMR.Rajha Sivakumar, S/o. R. Ramanujam has removed Rough stone over an extent of 0.11.22 hects., to the depth of 2m beyond the approved depth of 18m. In this connection, an amount of Rs.1,32,396/- (Rupees One Lakh Thirty-Two Thousand Three Hundred and Ninety-Six Only) was collected contradicting the statement made by the Project Proponent and the EIA coordinator before SEAC during its 356th meeting of SEAC held on 15.02.2023 that there was an old existing pit at the project site before starting the quarrying activity from the year 2016.

Hence the SEAC decided to grant Terms of Reference (ToR) under violation category without PH, subject to the following ToRs, in addition to (i) the standard terms of reference for EIA study shown in Annexure-I and (ii) the Standard ToR for non-coal mining projects and details issued by the MoEF&CC to be included in EIA/EMP Report.

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Further, this ToR granted will be legally subject to the outcome of the case W.P (MD). No. 11757 of 2021 of 2021 pending before Hon'ble Madurai Bench of the High Court of Madras.

- PP and EIA Coordinator should offer their explanation for not revealing the fact of penalty levied by the Department for illegal mining to SEAC. In its 356th meeting.
- 2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which shall stipulate the following information:
  - i. Original pit dimension of the existing quarry
  - ii. Quantity achieved Vs EC Approved Quantity
  - iii. Balance Quantity as per Mineable Reserve calculated.
  - iv. Mined out Depth as on date Vs EC Permitted depth
  - v. Details of illegal/illicit mining carried out, if any
  - vi. Non-compliance/Violation in the quarry during the past working.
  - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
  - viii. Existing condition of Safety zone/benches
  - ix. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining.
- 2. The PP shall furnish mitigation measures/remedial action plan for the non-compliance stated in the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC.
- 3. The study on impact of the proposed quarrying operations on the surrounding environment which includes water bodies, etc.
- 4. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
- 5. The Proponent shall furnish a comprehensive plan for green belt plantation and stacking the waste blockage of granite produced from the proposed quarrying operation to ensure sustainable environment.

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Agenda No: 411 - 17

File No: 8978/2023

Proposed Rough Stone & Gravel quarry lease over an extent of 2.13.0 ha in S.F. No. 323/18, 28, 2C, 3, 4, 58 & 323/5C at Sirudhamur Village, Uthiramerur Taluk, Kanchipuram District, Tamil Nadu by Thiru. M.Ganesan - For Environmental Clearance. (SIA/TN/MIN/439418/2023, Dated: 06.08.2023)

The proposal was placed in this 411th SEAC meeting held on 27.09.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation. SEAC noted the following:

- 1. The Project Proponent, Thiru. M.Ganesan has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 2.13.0 ha in S.F. No. 323/1B, 2B, 2C, 3, 4, 5B & 323/5C at Sirudhamur Village, Uthiramerur Taluk, Kanchipuram District, Tamil Nadu.
- 2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. As per mining plan, the lease period is for 10 years. The mining plan is for 10 years & production should not exceed 2,52,070m³ of Rough Stone & 21,366m³ of Gravel. The annual peak production 40,500m³ of Rough Stone & 8,568m³ of Gravel. The ultimate depth of mining is 42m BGL.
- 4. Subsequently, the proponent had obtained vide Lr. No. SEIAA— TN/F.No.8978/SEAC/ToR 1257/2022, Dated: 19.09.2022 stipulates that
  - "... The proponent shall obtain NBWL Clearance for the proposed quarry as the Karikili Birds Sanctuary located at a distance of 8.5km from the quarry site while submitting EIA study along with minutes of public hearing conducted."
- 5. The PP had furnished the reason for not obtaining NBWL clearance and submitted a letter from the PCCF vide Ref.No.WL5/3767/2023 dated: 15.02.2023 stating that

"...It is informed that the Eco Sensitive Zone of Karikilli Birds Sanctuary may be taken to 6kms from the tank area. Beyond 6 kms from the tank there is no

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restriction for any non-forestry activities and also the question of default 10 kms Eco Sensitive Zone does not arise".

6. Public hearing was conducted on 23.06.2023.

File N		8978/2023		Catagoni	B1		
riie in	0	439418/2023		Category	1(a)		
SI. No		Salient Fe	nt Features of the Proposal				
1.	Name of the	Owner/Firm	:	Thiru. M. Ganesan, S/o. Manivel, No.36/1, Mallampatti Village, Kalamavur Post, Kulathur Taluk, Pudukkottai District – 622502.			
2.		arrying (Ordinary Granite/Limestone)	:	Rough Stone & C	ravel Quarry		
3.	S.F Nos. of the area break-up	ne quarry site with	:	323/18, 2B, 2C, 3, 4, 5B & 323/5C			
4.	Village in wh	ich situated	:	Sirudhamur			
5.	Taluk in which	ch situated	:	Uthiramerur			
6.	District in wh	nich situated	:	Kanchipuram			
7.	Extent of qua	arry (in ha.)	:	2.13.0Ha			
8.	Latitude & corners of th	Longitude of all e quarry site	:	12°43'22.38"N to 79°50'58.58"E to			
9.	Topo Sheet I	No.	:	57 - P/14			
10	Type of mini	ng	:	Opencast Mechan	nized Mining		
	Life of Projec	t	:	10 years			
11.	Lease Period			10 years			
_	Mining Plan	Period	:	5 years	<del>_</del> -		
	Mining Plan	Details	:	As per approved Mining Plan	As modified by SEAC		
12	Geological Resources m³ (RoM)		:	Rough Stone 9,58,500 m <sup>3</sup> Gravel 42,600 m <sup>3</sup>	Rough Stone		
	Minable Resources m³ (RoM)		:	Rough Stone 2,59,485 m <sup>3</sup>	Rough Stone		

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		T	Gravel	Grave	el
			27,790 m³	_	
			Rough Stone	Rough S	tone
	Annual Peak Production in m <sup>3</sup>		40,500 m <sup>3</sup>	-	
			Gravel	Grave	el
			8,568 m³	-	
	Maximum Depth in meters	:	42m BGL		· <b>=</b>
13	Depth of water table	:	48m in rainy & 5	3m in summer	season
14	Man Power requirement per day:	:	18 Nos		
15	Water requirement:  1. Drinking & utilized water  2. Dust suppression  3. Green belt		2.5 KLD 0.5 KLD 1.0 KLD 1.0 KLD		
16	Power requirement	:	TNEB 1,50,448 Ltrs of HSD		
17	Precise area communication approved by the Assistant Director, Dept of G&M		Na.Ka.No.221/Q3/2021, dated: 08.10.2021		
18	Mining Plan approved by Assistant Director, Dept of Geology & Mining.	:	Rc.221/Q3/2021,	dated: 11.10.2	021
19	Department of G&M, Assistant Director, 500m Cluster Letter	•	Rc.221/Q3/2021, dated: 11.10.2021		
20	VAO Certificate Regarding Structures within 300m Radius		Letter furnished		
21	Project Cost (excluding EMP cost)	:	Rs. 57,64,000		
	EC Recommendation	••	Validity	30 years subjected following limits.  Rough	upper
22			<del>-</del>	Stone	
		:	Max Total RoM in m <sup>3</sup>	2,52,070 m³	21,336 m <sup>3</sup>
		:	Annual Max RoM in m³	40,500 m³	8,568 m³

		:	Max Depth in 42m BGL mtrs
23	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 25,44,100 Recurring Cost – Rs. 14,61,451
24	ToR issued Details	:	Lr.No. SEIAA-TN/F.No.8978/SEAC/ToR - 1257/2022, Dated: 19.09.2022.
25	Public Hearing conducted on	:	23.06.2023.
26	EIA report submitted on	:	07.08.2023.
27	CER cost (in Rs. Lakhs).	:	Rs. 5,00,000

Now, the proposal was placed in the 411th SEAC meeting held on 27.09.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 40,500 m³ of rough stone & 8,568 m³ of Gravel by maintaining the ultimate depth of mining up to 42 m BGL and subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 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 not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry.

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by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 4. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 5. As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall join with other quarries operating in the same cluster area to monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 6. As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

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- 7. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3rd year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8. The PP shall ensure that the transport of materials shall not be carried out during school hours from 8AM-10AM and during 3PM -5PM (or as specified by the school administration).
- 9. The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 10. The PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 11. The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site by carrying out the conservation measures meticulously.
- 12. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Sithalapakkam, Uthiramerur Union, Kanchipuram District before obtaining CTO from TNPCB.

13. In addition to that the PP shall remit Rs. 5.0 lakes to Wildlife warden, Chennai as Conservation/mitigation measures for the Karikili Bird Sanctuary since the site is within 10km radius and the same shall be included in the EMP.

Agenda No: 411 - 18

File No: 9462/2023

Proposed Construction of High-Rise Building complex in S.F. No: 453, 495/2C, 496, 497 & 498 of Perumbakkam Village, Tambaram Taluk, Chengalpattu District, Tamil Nadu by M/s. Brigade Enterprises Ltd - For Environmental Clearance. (SIA/TN/INFRA2/437964/2023, Dated: 06.08.2023)

The proposal was placed in this 411th SEAC meeting held on 27.09.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation. SEAC noted the following:

- The Project Proponent, M/s. Brigade Enterprises Ltd has applied for Environmental Clearance for the Proposed Construction of High-Rise Building complex in S.F. No: 453, 495/2C, 496, 497 & 498 of Perumbakkam Village, Tambaram Taluk, Chengalpattu District, Tamil Nadu.
- 2. The project/activity is covered under Category "B1" of item 8(b) "Township & Area Development projects" of the Schedule to the EIA Notification, 2006.
- 3. Total land area is 59,600 Sq.m & the total built-up area of the proposed High-Rise Buildings is 2,90,505 Sq.m.
- ToR issued vide Lr No. SEIAA-TN/F.No.9462/SEAC/8(b)/ToR-1367/2023 dated: 09.02.2023.

Now, the proposal was placed in the 411th SEAC meeting held on 27.09.2023. Based on the presentation and documents furnished by the proponent, SEAC decided to call for additional details

- 1. As the proposed site lies abutting the Pallikaranai Ramsar Site, the proponent shall submit details regarding boundary of the site vis a vis Pallikaranai marshland boundary by furnishing Latitude & Longitude details.
- 2. As the site is very close to a sensitive site, the PP shall submit the details of measures he proposes to take during construction stage.

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- 3. The proponent shall submit inundation certificate obtained from TN-WRD.
- 4. The proponent shall submit water commitment letter obtained from CMWSSB/local body to discharge the treated sewage water.

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

Agenda No: 411-19

(File No: 9511/2023)

Proposed Rough stone Quarry lease over an extent of 1.88.0 Ha at S.F.Nos. 75/1A, 75/1B & 75/2 of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu by Tmt.V. Kavitha - For Environmental Clearance. (SIA/TN/MIN/440094/2023, dated: 11.08.2023)

The proposal was placed in 411th SEAC meeting held on 27.09.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

- The Project Proponent, Tmt. V.Kavitha has applied for Environmental Clearance for the Proposed Rough stone Quarry lease over an extent of 1.88.0 Ha at S.F.Nos. 75/1A, 75/1B & 75/2 of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu.
- 2. The project/activity is covered under Category "81" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. As per mining plan, the lease period is for 5 years. The mining plan is for 5 years & production should not exceed 22,500m<sup>3</sup> of Rough Stone. The annual peak production 4,500m<sup>3</sup> of Rough Stone. The ultimate depth of mining is 18m (13m Existing pit depth and 5m proposed depth).
- 4. Earlier proponent had obtained Environmental Clearance vide Lr.No. SEIAA-TN/F.No.2950/EC/1(a)/3191/2015, Dated:27.04.2016 for SF No. 75/1A, 75/1B & 75/2 for a production quantity 35,885 cu.m of Rough Stone & 17.046 cu.m. of weathered gravelly formation up to a depth of 8m (5m Rough stone & 3m Weathered gravely formation).

5. Subsequently, the proponent had obtained Terms of Reference vide Lino.SEIAA-

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TN/F.No.9511/SEAC/ToR - 1311/2022, Dated: 07.12.2022.

- 6. Certified Compliance Report Obtained from IRO, MoEF&CC vide E.P./12.1/2022-23/SEIAA/215/TN/1406 Dated: 23.12.2022.
- 7. Public hearing was conducted on 14.06.2023.

The proposal was placed in 411th SEAC meeting held on 27.09.2023. Based on the presentation and documents furnished by the proponent, committee noted the following

Deputy Director, Geology and Mining, Karur vide Rc.No. 387/Mines/2021,
 Dated: 26.09.2023 which interalia states as follows under para 4

" i. Or	iginal Pit	Dimension	of the	existing	quarry.
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Average Existing Pit Dimension					
Level	Length (m)	Width (m)	Depth (m)		
1	124	43	13		
l1	108	81	5		

In the view of the above facts, committee decided to call for additional details

- The proponent had exceeded the depth as permitted in the previous EC dated 27.04.2016. Hence, the proposal is considered to be violation of the conditions stipulated in the previous EC. Hence, the proponent shall prepare chapter 13 – Damage assessment as per CPCB guidelines and the same shall be submitted.
- 2. SEIAA may write to Government to take credible action against the proponent under section 19 of Environment Protection Act, 1986.
- 3. SEIAA may take it up with AD/Mines for levying penalty for the excess quantity mined out with respect to the earlier issued EC Dated: 27.04.2016.

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

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

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Agenda No: 411-20

(File No.8685/2023)

Proposed Rough Stone Quarry Lease over an extent of 4.90.5 Ha at S.F.Nos. 11/2A, 12/1A & 12/1 (Part) of Thiruvengaivasal Village and S.F.Nos. 236/1A, 236/1B, 236/1C, 236/1D, 236/1E, 236/2, 236/3, 236/4, 236/5, 236/6, 236/7, 236/9, 236/10, 236/11, 236/12, 236/13, 236/14, 19/3, 235/9B & 235/11 of Panampatti Village, Illuppur Taluk, Pudukkottai District, Tamil Nadu by Tvl. Om Shri Vari Stones Pvt. Ltd. - For Environmental Clearance (SIA/TN/MIN/440270/2023 dated:14.08.2023)

The proposal was placed in this 411th Meeting of SEAC held on 27.09.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

- The project proponent, Tvl. Om Shri Vari Stones Pvt. Ltd has applied for Proposed Rough Stone Quarry Lease over an extent of 4.90.5 Ha at S.F.Nos. 11/2A, 12/1A & 12/1 (Part) of Thiruvengaivasal Village and S.F.Nos. 236/1A, 236/1B, 236/1C, 236/1D, 236/1E, 236/2, 236/3, 236/4, 236/5, 236/6, 236/7, 236/9, 236/10, 236/11, 236/12, 236/13, 236/14, 19/3, 235/9B & 235/11 of Panampatti Village, Illuppur Taluk, Pudukkottai 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. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.8685/SEAC/ToR-1044/2022 dtaed.31.01.2022.
- 4. The proposed land is non-contiguous. Hence, vide SEAC Specific Condition No.2 of ToR, it was suggested that,

"The project proponent shall consider only the large area of 2.2Ha with 5.No.236/1A, 236/1B, 236/1C, 236/1D, 236/1E, 236/2, 236/3, 236/4, 236/5, 236/6, 236/7, 236/9, 236/10, 236/11, 236/12, 236/13, 236/14, 19/3, 235/9B &. 235/11 and the proponent shall furnish the revised mining plan from AD mines during the final EIA submission".

- 5. Public Hearing was conducted on 08.06.2023.
- 6. Further, from the KML file uploaded by the proponent in the PARIVESH Portal, it was ascertained that a portion of the applied area was mined out recently.

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- 7. The Proponent claimed that having their office at Chennai, they were unable to visit their site frequently. In this situation the adjacent quarry lease holder Thiru. M. Ramesh having lease over an extent of 2.86.0 Ha in S.F. No 11/1 & 11/28 (Lease period 09.03.2017 to 08.03.2022) situated adjacent to their site on the Southern side encroached in their quarry site.
- 8. Accordingly, the proponent has submitted a revised mining plan for an area of 3.38.9 Ha.

During the meeting the SEAC has asked the PP to produce the following documents:

As mining operation has been done in the proposed site and the PP is claiming that was by way of encroachment by the neighboring mine, he should submit a letter from the concerned AD (Mines) to indicate (i) whether there was any encroachment into the proposed quarry site by the neighboring quarry operation and if so (ii) whether any penalty was levied for illegal mining and if not whether any penalty has been imposed on the PP.

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#### ANNEXURE-I

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

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

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

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

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

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

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

- obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 22. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
- 23.As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.

### ROUGH STONE/JELLY/BLUE METAL QUARRY

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

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

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

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

- shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32)To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34) The project proponent shall ensure that the provisions of the MMDR Act. 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are 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.
- 35)The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36)The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 37)All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole

- and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 40) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
- 41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

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SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE			
PROXIMITY TO THE WINDMILLS			
S1.	Existing (or) Virgin Quarry		
No	Wind Mills located at a distance of	Wind Mills located beyond 300 m	
	150 m to 300 m	Up to 500 m	
1.	Appointment of I/II Class Mines	Appointment of I/II Class Mines Manager	
	Manager Certificate of	Certificate of Competency under MMR	
	Competency under MMR 1961.	1961.	
2.	Special precautions are to be taken	Blast design parameters should be	
	during blasting within danger zone	mentioned in mining plan/scheme. and	
	such as posting guards, etc.	may be reviewed by a competent mining	
		engineer.	
3.	Blast design parameters should be	MCPD and total charge should be fixed	
	mentioned in mining plan/scheme.	such that it should nott exceed 1.3 kg and	
		26.50 kg respectively.	
4.	The recommendations of scientific	Fresh scientific study may be conducted if	
	organisation need to be	mine management wants to increase the	
	incorporated in the mining	MCPD and total explosive charge above	
	plan/scheme before its approval.	the quantity of 1.30 kg and 26.50 kg	
		respectively. Continuous monitoring using	
		seismograph should also be done in such	
		cases by the mine management.	
5.	Engagement of blasting in-charge	Engagement of blasting in-charge having	
	having Diploma/Degree in mining	Diploma/Degree in mining engineering for	
	engineering for day-to-day	day-to-day blasting.	
!	blasting.		
6.	Training of the blasting crew on	Training of the blasting crew on controlled	
	controlled blasting practices	blasting practices before engaged in	
	before engaged in operation.	operation.	
	<u> </u>		

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

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

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

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

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

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

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

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- the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
- 34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
- 35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
- 36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- 37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site

- photographs which shall duly be certified by MoEF&CC. Regional Office. Chennal (or) the concerned DEE/TNPCB.
- 42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
- 43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

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#### Annexure II

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

#### 1. Statutory Compliance:

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

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

### 2. Air quality monitoring and preservation:

- Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- 2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- The project proponent shall install a system to carry out Ambient Air Quality
  monitoring for common/criterion parameters relevant to the main
  pollutants released (e.g., PM10 and PM25) covering upwind and downwind
  directions during the construction period.
- 4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- 5. Sand, murram, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.
- 6. Wet jet shall be provided for grinding and stone cutting.
- Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.
- 8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly

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- disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- 9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
- 10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- 11. For indoor air quality the ventilation provisions as per National Building Code of India.

### 3. Water Quality Monitoring and Preservation:

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

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

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

## 4. Noise Monitoring and Prevention:

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

#### 5. Energy Conservation Measures:

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

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- 6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/local building byelaws requirement, whichever is higher.
- 7. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

### 6. Waste Management:

- A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- 4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- 5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- Any hazardous waste generated during construction phase shall be disposed
  of as per applicable rules and norms with necessary approvals of the State
  Pollution Control Board.
- 7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction

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- material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.
- 8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
- Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules.
   2016.
- 10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

#### 7. Green Cover:

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

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- appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
- 5. A wide range of indigenous plant species should be planted as given in the Appendix-I, in consultation with the Government Forest/Horticulture Departments and State Agriculture University.

### 8. Transport:

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

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

#### 9. Human Health Issues:

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

### 10. Corporate Environment Responsibility:

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

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

#### 11. Miscellaneous:

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

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

#### ANNEXURE III

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

### A. STANDARD TERMS OF REFERENCE (TOR)

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

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

#### 4) Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50.000/1:25.000 scale
- on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)
- iii. Details with respect to option analysis for selection of site
- iv. GPS Co-ordinates of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit//indicating

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

- proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife

### 6) Environmental Status

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

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- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.
- 7) Impact and Environment Management Plan
  - i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
  - ii. Water Quality modelling in case of discharge in water body
  - iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyorcum-rail transport shall be examined.
  - iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.

v. Details of stack emission and action plan for control of

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meet standards.

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

#### 8) Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the

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workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during preplacement and periodical examinations give the details of the same. Details regarding last month analyzed data of above-mentioned parameters as per age, sex, duration of exposure and department wise.

- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of heath status of workers with special reference to Occupational Health and Safety.
- 9) Corporate Environment Policy
  - i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
  - ii. Does the Environment Policy prescribe for standard operating process/ procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms /conditions? If so, it may be detailed in the EIA.
  - iii. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
  - iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to

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MEMBE**R-SECRET** SEAC -TN be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

- 11. Enterprise Social Commitment (ESC)
  - i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socioeconomic development activities need to be elaborated upon.
- 12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act. 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
- 13. A tabular chart with index for points wise compliance of above TOR.
- B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON-FERROUS)
  - 1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
  - 2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
  - 3. Details on installation/activation of opacity meters with recording with proper calibration system
  - 4. Details on toxic metals including mercury, arsenic and fluoride emissions
  - 5. Details on stack height requirement for integrated steel
  - 6. Details on ash disposal and management -Non-ferrous metal
  - 7. Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc.
  - 8. Raw materials substitution or elimination
  - 9. Details on smelting, thermal refining, melting, slag furning, and Waelz kiln operation
  - 10. Details on Holding and de-gassing of molten metal from primary and

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secondary aluminium, materials pre-treatment, and from melting and smelting of secondary aluminium

- 11. Details on solvent recycling
- 12. Details on precious metals recovery
- 13. Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization.
- 14. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
- 15. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
- 16. Trace metals in waste material especially slag.
- 17. Plan for trace metal recovery
- 18. Trace metals in water

#### C. ADDITIONAL TOR FOR INTEGRATED STEEL PLANT

- 1. Iron ore/coal linkage documents along with the status of environmental clearance of iron ore and coal mines
- 2. Quantum of production of coal and iron ore from coal & iron ore mines and the projects they cater to. Mode of transportation to the plant and its impact
- 3. For Large ISPs, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
- 4. Recent land-use map based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quick bird, lkonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
- 5. Respirable Suspended particulate matter (RSPM) present in the ambient air must be analysed for source analysis natural dust/RSPM generated from plant operations (trace elements). The RSPM shall also be analysed for presence of poly-aromatic hydrocarbons (PAH), i.e. Benzene soluble fraction, where applicable. Chemical characterization

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of RSPM and incorporating of RSPM data.

- All stock piles will have to be on top of a stable liner to avoid leaching of materials to ground water.
- 7. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
- 8. Plan for slag utilization
- 9. Plan for utilization of energy in off gases (coke oven, blast furnace)
- 10. System of coke quenching adopted with justification.

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## Appendix -I List of Native Trees Suggested for Planting

	Scientific Name	Tamil Name	Tamil Name
1	Aegie marmelos	Vilvam	<b>al</b> icoanio
2	Adenaanthera pavonina	Manjadi	மஞ்சாழ். ஆனைக்குன்றிமணி
3	Albizia lebbeck	Vaagai	CHTCDE
4	Albizia amara	Usil	a_sho
5	Baulania purpurea	Mantharai	மந்தாரை
6	Baulunia racemosa	Aathi	ஆக்கி
7	Bauhinia tomentos	Iruvethi	<u> В</u> фен <i>і</i> ді
8	Buchanenia axillaris	Kattuma	ani@eon
9	Borassus flabellifer	Panei	Liste
10	Butes топовретна	Murukkamaram	முகுக்கமரம்
11	Вовах сейва	Ilavu, Sevvilavu	<b>B</b> anes
12	Calophyllum inophyllum	Punnai	Ligitaber
13	Cassia fistula	Serakondrai	sys@sseiony
14	Cassia roxburghii	Sengondrai	OseOssano
15	Chloroxylon sweitenia	Purasamaram	ாள் மைக்கு
16	Cochlospermum religiosum	Kongu, Manjalilavu	கோங்கு, மஞ்சன் இலவு
17	Cordia dichotoma	Narovuli	<b>தகுவுளி</b> .
18	Creteve adansoni	Mavalingum	POLOHOOPPERD
19	Dillomia indica	Uva, Uzha	உசா
20	Dillenia pentagyna	SiruUva, Sitruzha	<b>Ag</b> உகπ
21	<b>Diospyro зевенин</b>	Karungali	கருங்காலி
22	Diospyro schloroxylon	Vaganai	CHECOCK.
23	Ficus amplissima	Kalltchi	கல் இச்சி
24	Hibiscus tiliaceou	Aatrupoovarasu	Significate.
25	Hardwickia binata	Aacha	,शुक्रंक
26	Holoptalia integrifolia	Aayili	ஆயா மரம், அயிலி
27	Lannea coromandelica	Odhiam	<b>⊕</b> ign∎o
28	Lagerstroenna speciosa	Poo Marudhu	ர் க⊋்
29	Lepisanthus tetraphylla	Neikottaimaram	தெய் கொட்டடை மரம்
30	Limonia acidissima	Vila maram	ब्युक्त प्रकृ
31	Litsea glutinos	Pisinpattai	அம்பா. பூசின்பட்டை
32	Madhuca longifolia	Illuppai	இலுப்பை
33	Manilkara hexandra	UlakkaiPaalai	9_80EGDE LIFGDEN
34	Mimusops elengi	Magizhamaram	លឡាសិលស្គាច
35	Mitragyna parvifolia	Kadambu	क्राम्
36	Morinda pubescens	Nurta	<b>Hem</b>
<b>3</b> 7	Morinda citrifolia	Vellai Nuna	Courtement (Magnit
38	Phoenix sylvestre	Eachai	resupio
39	Pongamia pinnat	Pungam	Lineano

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40	Premna mollissima	Munnai	முக்கை
41	Premna serratifolia	Narumunnai	50 முன்னை
42	Premna tomentosa	Malaipoovarasu	របស់ ប្រសុខ
43	Prosopis cinerea	Vanni maram	வன்னி மரம்
44	Pterocarpus marsupium	Vengai	Continue
45	Pterospormum canescens	Vennangu, Tada	Consistentia
46	Pterospermum xylocarpum	Polavu	Lieval
47	Puthranjiva roxburghi	Karipala	aglunos
48	Salvadora persica	Ugaa Maram	भासा व्यक्
49	Sapindus emarginatus	Manipungan,	pahirpea
	_	Soapukai	<b>C</b> ertinalistati
50	Serece asoce	Asoca	<i>अ</i> शस
51	Streblus asper	Piray maram	பிராய் மரம்
52	Strychnos nuxvoniic	Yetti	<b>越</b> 广乾
53	Strychnos politiorum	Therthang Kottai	Carana Gantan
54	Syzygium синті	Navai	5Felo
55	Terminalia belleric	Thandri	द्वा केर्ड
56	Terminalia arjuna	Ven marudhu	Causi மகுது
57	Toona ciliate	Sendhana vembu	சந்தன் வேப்பு
58	Thespesia populnea	Puvarasu	nete
59	Walsuratrifoliata	vaisura	appat
60	Wrightia tinctoria	Veppalai	COLLEGO
61	Pithecellobium dulce	Kodukkapuli	Garigia ariupi

# Appendix -III

# Display Board

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

	ளடுகளுக்கான சற்றுச்துறல் அனும்றி கிற்கண்ட நிபந்தனைகளுக்கு உட்பட்டு			
வழங்கப்பட்டுள்ளது ஊலை——, தேதியிடப்பட்டு, சற்றுச்சூழல் அனுமதிதேதி வரை செல்லத்தக்கதாக உள்ளது				
பாகை பகுதி வரைச்சி	துவாரியின் என்னையர் சுற்றி வேலி அமைக்க வேண்டும்			
மேற்பாட்டுக்கான கரங்கத் திட்டம்	கரங்கப்பாதையின் ஆழம் தனரமட்டத்தியி <u>குந்து</u> நிட்டர்க்கு மினமல் இருக்க வேள்டும்			
	காற்றில் மாக ஏற்படாதவாறு அவக் பாரிகளை வேற்கொள்ள வேண்டும்.			
prissing.	வாகளங்கள் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்று தண்ணிறை முறையாக தண்ணி) லாநிகளின் மூலமாக அவ்வப்போது தேவிக்க வேண்டும்.			
uprodišačiu. Godingu ogišaci advališas:	இனர்ச்சக் அண்ணையும் ஓச்சி மாகபாட்டையும் குறைப்பதற்காக குவாரியின் என்னவடை எத்தி அடர்த்தியான பசுமை பகுதியை ஏற்படுத்த வேண்டும்.			
கரங்கத்தில் பெடி வைக்கும்பொழுது நிலதுநிலுகள் ஏற்படாதவாதும் மற்றும் சுற்கள் பறக்காதவாகும் பாதுகாம். நடவடிக்கைகளை உள்ளிப்பாக செயல்படுத்தப்பட வேண்டும்.				
வரக்கத்தில் இருந்து ஏற்படும் இரைச்சல் அணவு 85 டேசியல்ஸ் (ABA) அளவிற்கு மேல் ஏற்படாதவாறு அருந்த வட்டுங்கடுகளை மேற் கோண்ள வேண்டும்.				
ஷங்க சட்ட விறிகள் 1900ள் கீழ் கரங்கத்தில் உள்ள பாரியார்களுக்கு தகுத்த பாதுகாப்பு களுவிகள் வழங்கவதோடு ககாதாரமுன்ன சழிப்பாற வாதிகளை செய்து நர வேண்டும்.				
சிராமம் அஸ்லது பஞ்சாபந்து வழியாக வாகளங்கள் செல்லும் சாலையை தொடந்ந்து நக்கு பராமரிக்க வேண்டும்.				
ஷங்கப்புளிகளால் அகுகில் உள்ள விவாராப் புளரிகள் மற்றுக் நீர்நிலைகள் பாறிகோப்படக் கூடாது.				
நிநிரைகள் பாநிக்கப்படாகல் <b>நி</b> ருப்பாத உறுதி செய்யும் வளையில் நிலத்துடி தீரின் தரத்தினை தொடர்ந்து கண்ணாகிக்க வேண்டும்.				
அங்கத்திலிருத்து கணிக் பொருட்களை எடுத்துச் போல்வது சிராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுகுமுல் பாதிக்களை வண்ணம் வாகனங்களை இயக்க வேண்டும்.				
அண்கப்பாரிகள் முடிக்கப்பட்டவுடன் ஷங்க முடல் திட்டத்தில் உள்ளவாறு அண்கத்தினை முட வேண்டும்.				
<u>சுக்க நடவக்கையை முடித்தின்னர் சுக்கப் பகுதி மற்றும் சுக்க நடவக்கையால் நிடையூறு ஏற்படக்கூடிய</u>				
மேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்து நாவரங்கள் விலங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில்				
பானம்பகுதின்ப உருவாக்க Good				
	ப <b>ார்வேர்</b> (http://pariesh.ric.in) என்றே <b>திணை</b> பத <b>ைந்தைப் பார்கையிடவுக் பேறும் எந்தவிற</b> சன்னையில் உள்ள சுற்றுச்தழல் மற்றும் வள அமைச்சாத்தின் ஒருங்கிணைந்த வட்டார			

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