#### STATE EXPERT APPRAISAL COMMITTEE - TAMIL NADU

Minutes of 359° meeting of the State Expert Appraisal Committee (SEAC) held on 02.03.2023 (Thursday) at SEIAA Conference Hall, 2<sup>rd</sup> Floor, Panagal Maligal, Saidapet, Chennal 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 359-01 (File No: 9437/2022)

Proposed Rough Stone and Gravel quarry lease over an extent of 1.62.0Ha SF.No.181/2 & 182/1 (Part) of Kalangal Village, Sulur Tatuk, Colmbatore District by Thiru.N.Manickaraj - Environmental Clearance (SIA/TN/MIN/287270/2022, dt: 05.08.2022)

Earlier, the proposal was placed in this 324th meeting of SEAC held on 21.10.2022. 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.Manickara) has applied for Environmental Clearance for the Proposed of Rough Stone and Gravel quarry lease over an extent of 1.62.0Ha SF,No.181/2 & 182/1 (Part) of Kalangai Village, Sulur Taluk. Coimbatore District, Tamii Nadu.
- The project/activity is covered under category "82" of item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
- 3. The precise area communication was issued for the period of 5 years. The approved mining plan is for the period of five years & production should not exceed 81295 m³ of Rough Stone & 1296 m³ of Gravel. The annual peak production is 16,770 cu.m of Rough Stone (2<sup>rd</sup> Year). The ultimate depth is 52m 8GL.
- 4. As per modified mining plan submitted by the PP, the revised Quantity for Five-year Production is 74,020m3 of Rough Stone & 1,296m3 Gravel up to a depth of 47.0m (Max) (2m Gravel and 45m Rough Stone). The annual peak production shall not exceed 16.770 cu.m of Rough Stone & 1296 m³ of Gravel

MEMBER SECRETARY 1 CHAUBMAN SEAC-TN

the contract of the contract o	- 1	Thiru, N. Manickaraj.
Name of the Owner/Firm	ij	\$/o.Narayanasamy Gounder.
		No.3/4, Sri K.P.G. Nagar.
	$  \  $	
		Sulur Taluk.
	<u>ן</u>	Colmbatore District - 641402
Type of quarrying (Rough	;	Rough Stone and Grave!
Stone/Sand/Granite)		
S.F. No. Of the quarry site with area	٦	181/2 & 182/1 (Part)
break-up		
Village in which situated	:	Kalangai
Taluk in which stuated	i	Sulur
District in which situated	1:	Coimbatore
	1:	1.62.0Ha
	1.	10°58'42.36"N to 10°58'46.40"N
	1	79°06'46.16"E to 79°06'52.53"E
<u></u>	1	ED 5/01
<del>-</del>	1:	58 - F/01
Type of mining		Opencast Semi-Mechanized of
	+	Mining
	ŀ	5 years
Production (Quantity in m') & depth (m)	:	81295m <sup>2</sup> of Rough Stone &
		1296m <sup>1</sup> of Gravel up to a depth
	ŀ	of 52m (2m Gravel and 50m
<u></u>	1	Rough Stone).
Revised Production (Quantity in m³) &	:	Revised Quantity for Five-year
depth (m)		Production is 74,020m3 of
		Rough Stone & 1,296m3 Gravel
		up to a depth of 47.0m (Max)
!		(2m Gravel and 45m Rough
	ı	Stone)
Depth of quarrying	]	47m
Depth of water table	_ i	: 55m-60m BCL
Man Power requirement per day:	T	16 Nos.
Source of Water Requirement	ī	water vendors & Existing
		Borewell
Water requirement:	$\top$	; 2.0 KLD
		1.0 KLD h
_	ŀ	1   0.
KLD)		1 / 10
	Type of quarrying (Rough Stone/Sand/Granite)  S.F. No. Of the quarry site with area break-up  Village in which situated  Taluk in which situated  District in which situated  Extent of quarry (in ha.)  Latitude & Longitude of all corners of the quarry site  Topo Sheet No.  Type of mining  Perlod of quarrying proposed  Production (Quantity in m') & depth (m)  Revised Production (Quantity in m') & depth (m)  Depth of quarrying  Depth of water table	Type of quarrying (Rough Stone/Sand/Granite)  S.F. No. Of the quarry site with area break-up Village in which situated  Taluk in which situated  District in which situated  Extent of quarry (in ha.)  Latitude & Longitude of all corners of the quarry site  Topo Sheet No.  Type of mining  Period of quarrying proposed  Production (Quantity in m²) & depth (m)  Revised Production (Quantity in m²) & depth (m)  Depth of quarrying  Depth of water table  Man Power requirement per day:  Source of Water Requirement  Water requirement:

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	Dust suppression, Green Belt &Wet     Drilling (in KLD)		0.5 KLD
18	Power requirement	:	TNEB
19	Whether any habitation within 300m distance	;	, No
20	Precise area communication approved by the, District Collector, with date	:	Na.Ka.No.476/Kanimem/2022, dr: 06.07.2022
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Roc.No.476/Mines/2022, dt: 08.07.2022.
22	Assistant Director, Department of Geology and Mining 500m cluster letter		Rc.No.476/Mines/2022, dt: 08.07.2022
23	VAO certificate regarding 300m radius duster		Letter dt: 15.07.2022
24	Project Cost (excluding EMP cost)	;	Rs,44.70 Lakh
25	EMP cost	;	Rs.67.17 Lakhs/5 Years
26	CER cost		Rs.5 Lakhs

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

- Revised quantity after formation and alignment of benches including photographs of fencing & Green belt.
- Certified compliance report obtained from the IRO, MoEF & CC, Chennai

   (or) the DEE/TNPCB for the prior EC received in 2017 from the DEIAA,

Subsequently, the proposal was placed in the 569th Authority meeting held on 09.11.2022. The Authority after detailed discussions, decided to seek the following additional particulars.

- Details of impact of previous mining activity around the proposed mining area on the following
  - a) Soli health & bio-diversity.
  - b) Climate change leading to Droughts, Floods etc.
  - c) Aquatic & terrestrial vegetation in regard to pollution leading to release of Greenhouse gases (GHG), rise in Temperature. & Livelihood of the foçal people.
  - d) Possibilities of water contamination and impact on aquatic ecosystem health.
  - e) Agrjætiture. Forestry & Traditional practices.

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- f) Bio-geochemical processes and its foot prints including environmental stress.
- g) Sediment geochemistry in the surface streams & and water bodies.
- h) Erosion, Loss of habitat and land scape changes.
- i) Heavy metal contamination due to mine flow, acid flow from the proposed mining site during mining project period and post mine closure period.

In this connection, PP has furnished reply vide ir. Dt: 29.11.2022 and submitted modified mining plan & CCR from IRO (South Eastern Zone). MoEF&CC and details sought by the Authority.

As per modified mining plan, the revised quantity for Five-year Production is 74.020m3 of Rough Stone & 1,296m3 Gravel up to a depth of 47.0m (Max) (2m Gravel and 45m Rough Stone) and the revised production details is given below

				INFARI.	RESERVES		
Section	Bench	Leogth to (m)	White in (m)	Depth to (m)	Volume in	Gravel Formation in	Mineable Reserves of Rough stone in my
	ſ٧	104	31	5	16120		16120
XY-AB	<del>  ₩</del>	100	21	5	10500		10500
	<u> </u>			TAL			26620
	liv I	81	50	5	15250	<u> </u>	15250
	<del>Viii</del>	9B	40	3	11200		1 1 200
XY-CD	13	51	30	5	7650		7650
	<u>x</u>	46	20	5	4600		4800
		- 12		OTAL .			58700
	1	54	12	<del>1 2</del>	1296	1296	<u></u>
	<del> </del>	49	12	5	2940		2940
XIYI-	՝ <del>Մ</del>	19	112	5	2340		2340
CD	īv	29	12	5	1740		1740
CD	<del>  ₩</del>	19	12	1 5	1140		L140
	<u> जं</u>	9	12	3	540		540
	**.			OTAL		1296	8700
				TOTAL		1226	74029

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-	Section	3 met	Longth in	### 10 (10)	Depth in	Tubero la	Oravel Fernándos ja. m²	North House in at
<u> </u>	XIT1-	1	4	13	1	12596	1256	· ·
l	CD	=		12	5	2940		294
l	<b>!</b>	•	#	12		2240		1549
l	;	2	7	12	5	1740		1740
ŀ	l	>	3	12	\$	1140		1340
ŀ		5	Í		\$	140		546
	XY-AB	2	19	31	*	7754		7750
				TOTAL			L786	16416
II.	XY-AB	<b>₽</b> V	\$4	11	\$	#37#¢		59.70
			₩	21		8400		B <b>40</b> 0
				TUTAL				Júřítů
41	XY-AB	¥	29	21	5	2100		2160
	Ą	•	35		•	9750		<b>#750</b>
				TOTAL	ı			18838
- N	<b>₹</b> .₩	VE.	*	50	\$	6504		5540
		¥11	50	40	5	10080		1000
				TOTAL				19640
		VI	<u> </u>	*	В	1346		1240
	xv-co	DX	· \$1	34	8	2064		7650
	X+411	Х.	#	A	3	4500		4674
				TOTAL	<u> </u>			18469
				1296	14420			

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the period of 5 Years and the ultimate depth of mining is upto 47m BGL and for the production of 74020 m<sup>3</sup> of Rough Stone & 1296m<sup>3</sup> of Gravel and however, the annual peak production shall not exceed 16,770 cu.m of Rough Stone & 1296 m<sup>3</sup> of Gravel subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 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 inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS. Chennal before obtaining the CTD.

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- The mine manager and other statutory competent persons such as blaster (or)
  mine mate shall be appointed as per the provisions of Mines Act 1952 and
  Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the
  DEE/TNPCB.
- 4. The proponent shall maintain the '\$3 (or) G2' type of fending all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGM\$ Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
- 5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
- The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
- 7. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
- 8. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal and Anna University CEG Campus. A copy of such scientific study report shall be submitted for the SEIAA,

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9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.

10. 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.

11. 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.

12. 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.

13. The Project Proponent (PP) shall submit a "Slope stability action plan" incorporating the haul road ramp keeping the benches intact for the proposed. quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.

14. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM/Bangalore, IJT-Madras. NIT-Dept of Mining Engg. Surathkal and Anna University ~ CEG Campus, A. copy of such scientific study report shall be submitted to the SEIAA, MoEF. TNPCB, AD/Mines-DGM and DMS, Chennal as a part of Environmental Compliance without any deviation.

15. The PP shall meticulously carry out the mitigation measures as ppelt out in the revised\_EMP.

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- 16. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
- 17. The Project Proponent shall send a copy of the dearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
- 18. As per the MoFF6. CC Office Memorandum F.No. 22-65/2017-(A.II) dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
- 19. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the activities as committed for the Panchayar union Middle School, Sulur before obtaining CTO from TNPCB.

Agenda No: 359-02 (File No: 7016/2021)

Proposed Brick Earth quarry lease area over an extent of 2.07.0 Ha at S.F.Nos. 210/2, 209/5, 211/2, 209/7 and 210/5, Vengalur Group and Village, Paramakudi Taluk, Ramanathapuram District, Tamil Nadu by Thiru. R.Sankaranarayanan - For Environmental Clearance . (SIA/TN/MIN/40843/2019 Dt. 07.08.2019).

The proposal was placed in this 359\* SEAC meeting held on 02.03.2023. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are available in the website (partiesh.nic.in).

# The SEAC noted the following:

- The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
- The salient features of the proposed project as follows:

		17.45 <b>43</b> 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		w 11 to Arr	·
	Name of the Owner/Firm		Thiru.R.San	karanaraya	nan.
1			Sri Arunaac	hiyamman	Chamber Bricks,
'			Mankulam	Village.	[]
					<u> </u>

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		Manamadurai Taluk,
		Sivagangai District - 630 606.
2,	Type of quarrying	Brick Earth
3.	S.F No. Of the quarry site with area	210/2, 209/5, 211/2, 209/7 and 210/5
	break-up	
4.	Village in which situated	Vengalur Group and Village
5_	Taluk in which situated	Paramakudi
6.	District in which situated	Ramanathapuram
7.	Extent of quarry (in ha.)	2.07.0Ha
8.	Period of quarrying proposed	1 year
9.	Type of mining	Opencast Semi - Mechanized Mining
		with no drilling and blasting
10.	Production (Quantity in m3)	As per the mining plan, the lease
		period is for one year. The production
:		for one year not to exceed - 12,373
		m³ of Brick earth with ultimate depth
		of Im (BGL).
11.	Annual peak Production (Quantity In	The annual peak production is 12373
	m3)	caum of brick Earth.
12.	Ultimate Depth of quarrying	îm (BCL)
13.	Depth of water table	25m BGL
14.	Latitude & Longitude of all corners of	09°31'44"N to 09°31'54"N
	the quarry site	78°29'42"E to 78°29'49"E
15.	Top Sheet No.	58 - K/10
16.	Man Power requirement per day:	7 Nos.

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17.	Precise area communication approved by the District Collector, with date Mining Plan approved by Deputy	Rc.No.1421/G&M.1/2018, Dated: 29.01.2019 Rc.No.1421/G&M.1/2018, Dated:
	Director, Department of Geology and Mining with date	13.02.2019
19.	Deputy Director, Department of Geology and Mining 500m cluster tetter	Rc.No.1421/G&M.1/2018, Dated: 18.07.2019
20.	VAO certificate regarding 300m radius cluster	Letter Furnished and dated nil.
21.	Water requirement:	2.0 KLD
22.	Power requirement  a. Domestic Purpose	TNEB
23.	Project Cost	Rs.9,35,000/-
24.	EMP cost	Capital cost and recurring cost - Rs. 5.38 lakhs.
25	CER cost	Rs.2.00,000/- as accepted by the PP

- 3. Earlier, this proposal was placed in the 268th SEAC Meeting held on 29.4.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance, subject to the conditions as stated therein. In addition to the standard conditions issued by the MOEF & CC.
- Subsequently, this proposal was placed in the \$13<sup>rd</sup> Authority meeting held on 30.05.2022. The Authority after detailed discussion, decided to call for the following details from the project proponent.

To furnish the types of trees & No. of trees including (Palmyra trees)
present within the proposed mine lease area.

 Based on the proponent's reply vide letter dt: 27.06.2022, this proposal was again placed in the 551<sup>a</sup> Authority meeting held on 19.09.2022. After detailed

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CHAÎRMAN SEAÇATN discussion, the Authority decided to request the Member Secretary SEIAA-TN to refer back the proposal to SEAC-TN stating the following reasons,

- The consent of Pattadhars not been registered.
- d. As per the order of Hon'ble Madural Bench of Madras High Court Dated:28.08.2019 in WP (MD) No.20903 of 2016, the sand content should not be more than 40%. It is ascertained from the mineral composition analysis report issued by University of Engineering, Anna University, Dindigul, the sand content is more than 40%. The above said facts may be darified.
- id. The kml file uploaded in the parivesh portal is not opening.
- Further, this subject was again placed for reappraisal in the 322<sup>rd</sup> SEAC meeting held on 19.10.2022. Based on the presentation made by the proponent. SEAC noted and decided to call for details as follows.
  - The PP shall furnish registered consent document from all pattachers.
  - The composition/component of the minerals proposed to be quarried shall be tested in the laboratories authorized by the Dept of Geology & Mining such as Dept of Civil Engineering. NIT Trichy (or) Anna University Dept of Soil Mechanics, CEG Campus and forwarded through AD/DD Mines following the directions of the Madurai High Court Judgement in this regard. However, the soil sample shall be extracted from the proposed quarrying area following the guidelines stipulated by the Dept of Geology & Mining in the presence of the Consultant/EIA Coordinator using proper methods & tools. The test certificate shall be vetted by the concerned Asst Director (Geology and Mining).
  - The proponent should produce a letter from the concerned Asst Director (Geology and Mining) stating that the location of quarry site does not life adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment. On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.

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Now, the PP had submitted a reply vide letter dated: 23.01,2023. Hence, the proposal was placed in this 359\* SEAC meeting held on 02.03.2023. During the presentation, the SEAC noted the following.

- The PP has obtained consent registration from the pattadhars for these S.F.Nos. 209/5, 210/5, 211/2 only and the PP has requested EC for the same.
- ii. The PP has obtained mineral composition letter from Anna University, CEG Campus and the test report was vetted by the concerned Asst. Director (Geology and Mining) vide Roc.No.1421/G&M.1/2018, dated:20.01.2023.
- iii. The PP has obtained letter from the concerned Asst. Director (Geology and Mining) vide Roc.No.1421/G&M.1/2018, dated:09.11.2022 stating that the location of quarry site does not the adjoining to the rivers, streams, canals etc., and also does not come under any notified/dedared protected zones.

Based on the presentation made by the proponent and the documents. SEAC decided to recommend the proposal for the grant of Environmental Clearance for quantity of 12,373 m<sup>3</sup> of Brick Earth for the period of 1 year with maintaining an ultimate pit depth of 1m BGL, subject to the standard conditions & 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.
- The concerned AD/DO, Dept. of Geology and Mining shall examine the documents related to land registration and ensure the ownership of the land proposed by the PP before execution of the lease agreement.
- Tree plantation & fencing around the mine lease area shall be completed before obtaining the CTO, from the TNPCB.
- 4. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations. 1961.

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- 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.
- 7. The Project proponent shall adhere to the working parameters of mining planwhich was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, interburden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
- The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining. Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.
- 10. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months,

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- 11. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
- 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 to be adopted by considering the wind direction.
- 13. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of Indigenous plant species should be planted as given in the appendix in consultation with the DFO. State Agriculture University. 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.
- 14. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly 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
- 15. 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/mulfs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 16. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 17. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation

MEMBER SECRETARY

HATRMAN -SEAC TN indicating the possible silt content and size in case of any agricultural land exists around the quarry.

- 18. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 19. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 20. 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.
- 21. After mining operations are completed, the mine dosure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
- 22. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
- 23. 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.
- 24. The project proponent shall ensure that the provisions of the MMRD, 1956, 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.
- 25. 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

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CHAIRMAN SEAGUTH shall be informed to the District AD/DD(Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennal Region by the proponent without fail.

- 26. 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.
- 27. Prior clearance from Forestry & Wild Life including dearance 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 dearance, as per the existing law from time to time.
- 28.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.
- 29. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project information as shown in the Appendix —II of this Minutes.
- 30.As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
- 31. As accepted by the Project proponent the CER cost is Rs. 2.0 lakhs and the amount shall be spent for the committed activities in Nedungularin Primary School, as committed, before obtaining CTO from TNPCB.

Agenda No: 359 - 03

(File No: 9368/2022)
Proposed Rough Stone & Gravel quarry lease over an extent of 1,73.0 Ha at S.F.Nos. .
337/2 of Pachapalayam Village, Sulur Taluk, Colmbetone District, Tamil Nadu by Tmt.
K. Bhakiyalakshmi -For Environmental Clearance (SW/TN/MIN/272724/2022, 16.05,2022).

The proposal was placed in this 359th meeting of SEAC held on 02.03.2023. The details of the project furnished by the proponent are available in the website (partvesh.nic.in).

The SEAC noted the following:

Member secretary SEAC -TN CHATRMAN'S

- The Project Proponent, Tmt, K. Bhakiyalakshmi has applied for Environmental Clearance for the Proposed Rough Stone & gravel quarry lease over an extent of 1.73.0 Heat S.F.Nos. 337/2, Pachapalayam Village, Sulur Taluk, Colmbatore District, Tamil Nadu.
- The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. Earlier online appl No. SIA/TN/MIN/131536/2019 dt: 14.12.2019 (File No. 7365/2020) was appraised vide 156th SEAC meeting held on 18.06.2020. Based on the presentation made by the proponent and the documents furnished, the Committee noted that the earlier EC was granted by SEIAA vide Lr. DI: 18.07.2013 to a depth of 31.5m whereas the proponent has mined to a depth of 41.5m as per the report furnished during presentation. When clarification was requested by the SEAC, consultant explained that before EC was granted to a depth of 31.5 m already IOm depth was mined out, totalling to 41.5m. The proponent has mined out only 31.5 m as per the EC granted. However, neither proponent nor the consultant has furnished document evidence from competent authority for the same. Hence the Project Proponent was instructed to get clarification for the above from the Assistant Director, Department of Geology and Mining, Coimbatore.
- 4. Meanwhile, the PP had submitted a new application vide online No. 272724/2022 dated: 16.05.2022 (9368/2022) for the same in the parivesh portal without disclosing the fact of previous application submitted by the proponent.
- The PP had submitted a reply for the queries raised in the 256th meeting of SEAC held on 18,06,2020.

Now, the subject was placed in this 359th meeting of SEAC held on 02.03.2023. During the meeting, the EIA coordinator has submitted an explanation letter. The Committee, hence, directed the PP to withdraw the new application submitted vide online application 272724/2022 dated: 16.05.2022 (9368/2022), after which the Committee will examine the replies given in File No. 7365.

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CHAIRINAN SEAR- TN Agenda No: 359 - 04 (File No: 9415/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.10.5 Ha at S.F.Nos. 492/A3 & 492/B2 of Kodanthur South Village, Aravekurichi Taluk, Karur District, Tamil Nach: by Thiru.R.Gunasekaran -For Environmental Clearance (SIA/TN/MIN/284685/2022, 22.07.2022).

The proposal was placed in this 359° meeting of SEAC held on 02.03.2023. The details of the project furnished by the proponent are available in the website (parivesh,nic.in).

### The SEAC noted the following:

- The proposed quarry/activity is covered under Category "82" of Item 1(a)
  "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 2. Quarrying in this lease area was earlier carried out and Environmental clearance was obtained from SEIAA. Tamil Nadu vide Lr.No. SEIAA-TN/F.No.2201/EC/1(a)/119/2013 dated 15.04.2014 for Rough stone quarrying for the quantity of 103360 cu.m of Rough Stone upto a depth of 12m at S.F.Nos. 492/A1, A2, A3, 492/B1 & 492/B2 of Kodanthur South Village. Aravakurichi Taluk, Karur District, Tamil Nadu over 3.99.5 Ha of the lease area.

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	به [سمد]	-	(Deptite an (m)	NAME OF THE PERSON AND	of Acres	Succession of the last of the
[		A4 (A4)			169-50	EMM & CONTRACTOR
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162		100	\$1,521			
7,248						
		1.0				

3. Earlier Precise area communication issued vide Rc.No.611/mines/2014. Dated: 02.06.2014 states that

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மாட்ட ஆட்சித்தைகள் செல்லாற்ற ஆன்ற எறி.243/களிரம்/2013, தன்.14.08.2013கிடி ரத்த செல்லப்பட்டது எனவுக், தற்கேளுது அதே புல எனிகளில் விண்ணப்பதார் இரு ஆர்.குண்செல்லா என்புகர் விண்ணப்பட் செல்துள்றனர் எனவுக், விண்ணப்ப புலம்கள் சமத்தைகளையு வடையும், இதில் குற்கத்து கல்குகளி குத்துகை உரிம வாக்கில் எல்துடைக்க சவசிற்ற கற்குற் புல வண்.492/A1, A2 மற்றும் 111 ஆகியவத்தில் உள்ளது வளவுக், புல எனிகள்.492/A3 மற்றும் 492/B2 ஆகியவத்தில் கறகுறிகள் முறம் இன்னவு எனவுக், கற்குழிகின் நில அலைங்கள் வருகளம் கோட்டாட்சியர் அதிக்கையுடன் இணைக்கப்பட்டுள்ள புல வணவுகத்தில் குறிக்கப்பட்டுள்ளது எனவுக், கற்குறிகின் ஆறும் 10 மீடன் முதல் 13 மீடம் கணவுள்ளது எனவுக், மண் மற்றும் கறிவுகோறைகள் 1 முதம் 2 வி.ம் வணவுகளையு எனவுக், அதுள்கிற சம்கோனைய் வகை பறை கணைப்படுகிறவு

- 4. Hence, the Existing pit depth is 15m.
- The PP has obtained Certified Compliance Report vide 1r.No. E.P/12.1/2022-23/SEIAA/107/TN/103 dated: 22,09,2022.
- It has been observed that the quarry lease area is demarcated on the ground with wire fencing and the PP is carrying out Green belt development.
- The solar panels are located 600m away from the proposed project site.
- The salient features of the proposed project as follows:

l.	Name of the Owner/Firm	Thiru.R.Gunasekaran,
		5/o.Ramasamygounder.
		Door No.4/171-1, Pon Nagar,
		Aandankovil East,
		Manmangalam,
		Karur -639002.
2	Type of quarrying	Rough Stone and Gravel
3.	5.F No. of the quarry site with area break-up	492/A3 & 492/B2
4.	Village in which situated	Kodanthur south
5.	Taluk in which situated	Aravakurichi
6.	District in which situated	Karur

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retion of dogs And brokens	Opencast -Semi Mechanized mining  As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 125415 cu.m of Rough stone & 12870 cu.m of Gravel.  The annual peak production is 25960 cu.m of rough stone & 5590 cu.m of
Production (Quantity in m3)  Annual peak Production (Quantity in	As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 125415 cu.m of Rough stone & 12870 cu.m of Gravel.  The annual peak production is 25960
Annual peak Production (Quantity in	is 5 years. The mining plan is for the period of five years & production should not exceed 125415 cu.m of Rough stone & 12870 cu.m of Gravel.  The annual peak production is 25960
· '	period of five years & production should not exceed 125415 cu.m of Rough stone & 12870 cu.m of Gravel.  The annual peak production is 25960
· '	should not exceed 125415 cu.m of Rough stone & 12870 cu.m of Gravel.  The annual peak production is 25960
· '	Rough stone & 12870 cu.m of Gravel.  The annual peak production is 25960
· '	The annual peak production is 25960
· '	
· '	au m of much done & 5590 dum of
,	CONTINUE AND ADDRESS OF THE PARTY OF THE PAR
	Gravel.
Existing depth	15m
	40m BGL (2m Gravel + 38m Rough
	Stone)
Depth of water table	60m in summer to 55mln rainy season
Latitude & Longitude of all corners of	10°54'43.90" N to 10°54'47.79" N
	77°47'4,11" E to 77°47'7.45" E
Top Sheet No.	58 F/13
Man Power requirement per day:	14 nos
Precise area communication issued	Rc.No.121/mines/2021. Dated
	28.06.2022.
	Rc.No.121/mines/2021, Dated
	Rc.No.121/mines/2021, Dated
	s Letter Dated: 02.07.2022 A.A.
	$\Pi$
	Existing depth  Ultimate Depth of quarrying  Depth of water table  Latitude & Longitude of all corners of the quarry site  Top Sheet No.  Man Power requirement per day:  Precise area communication issued with date  Mining Plan approved by Deputy Director. Department of Geology and mining with date  500m cluster letter issued Deputy Director, Department of Geology and mining with date

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22.	Water requirement:	4.0 KLD
	I. Drinking & Domestic Water (in	
	KLD)	2.5 KLD
	Dust suppression(in KLD)	1.0 KLD
ĺ	3. Greenbelt (in KLD)	O.5 KLD
23.	Power requirement	TNE8
	b. Domestic Purpose	102486Litres of HSD
24.	Project Cost	Rs.72,50,675/-
25.	EMP cost	Capital cost: Rs.23,55.519/-
		Recuring cost/annum: Rs.14,44,540/-
26.	CER cost	Rs.5.00,000/- as accepted by the PP

Based on the presentation and documents furnished by the project proponent. SEAC decided to recommend the proposal for the grant of Environmental Gearance for total excavation quantity exceed 1,25,415m<sup>3</sup> of rough stone & 12,870m<sup>3</sup> of Gravel with maintaining an ultimate pit depth of 40m BGL & argual peak production capacity of 25960 cu.m of rough stone & 5590 cu.m of Gravel subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 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 mine manager and other statutory competent persons such as blaster (or)
  mine mate shall be appointed before the commencement of mining operation
  as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations.
  1961.
- The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety. Chennal Region under the section 16 of the

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- Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
- 4. The proponent shall construct the '\$3 (or) G2' type of fending all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGM\$ Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 5. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
- The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
- 7. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 2 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surethkal, 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, Chennal as a part of Environmental Compliance without any deviation.
- 8. As a part of EC Compliance, the PP shall carry out the tree plantation (2000 nos) to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
- 9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.

MEMBER SECRETARY

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- 10. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2,0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
- 11. However, as few structures are located within 200-300 m, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', within one year from the commencement of mining operations, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NtRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal and Anna University 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.
- 12. 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.
- 13. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 14. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.

15. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.

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- 16. The PP shall carry out the comprehensive hydrogeological studies within 2 years from the commencement of the quarrying operation to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NtRM, IIT-Madras, NtT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS. Chennai as a part of Environmental Compliance.
  - 17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
  - 18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
  - As per the MoEF& CC Office Memorandum F.No. 22-65/2017-1A.III dated:
     30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
  - 20. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Middle School, Kodanthur Village as committed, before obtaining CTO from TNPCB.

Agenda No: 359-05 (File No: 8529/2022)

Proposed Rough Stone Quarry lease over an extent of 3.35.0Ha in S.F.Nos.63/2 (Part) of Bargur Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Thiru.C.Seivan – For Environmental Clearance. (SIA/TN/MIN/405429/2022, dated 05.11.2022)

The SEAC noted the following:

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- The project proponent, Thiru.C.Selvan has applied for Environmental Clearance for the Proposed Rough Stone Quarry lease over an extent of 3.35.0Ha in S.F.Nos.63/2 (Part) of Bargur Village, Bargur Taluk, Krishnagiri 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 amended.
- 3. ToR issued vide Letter No. SEIAA TN/F.No.8529/SEAC/ToR-993/2021 dated 28.07.2021 restricting the maximum depth of mining to 43m considering the environmental impacts due to the mining, safety of the working personnel and following the principle of the sustainable mining and consequently the maximum minable quantity of 7.99,240 cu.m of Rough stone is permitted for mining over five years.
- 4. Public Hearing on 15.06.2022
- EIA report submitted on: 07.11.2022.

L	Name of the Owner / Firm	Thiru.C. Selvan
i	İ	S/o. Chinnameadhu
•		No.4/268, Kumbalapadi
		Indur, agar Koodal Village
<u> </u>	<u> </u>	Dharmapori - 636 903
2.	Type of quarrying (savudu /	Rough Stone
<u> </u>	Rough stone / Sand / Granite)	
3.	S.F.No. of the quarry site	63/2 (p)
4.	Village	Bargur
5.	Taluk	Bargur
6.	District	Krishnegiri
7.	Extent of Quarry (in ha.)	3.35.0Ha Government land
8.	Period of Quarrying proposed	5 years
9.	Type of Mining	Open cast serni mechanized method
10.	Production (Quantity in m³)	As per the approved mining plan. Geological reserves:

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	17,90,278 au.m of Rough stone and the
	Ultimate depth is 57m
	5-year Production:
	5.29,243 cu.m of Rough stone -Restricted as
	per TaR
İ	The annual peak production as per mining plan
	is 1,45,730 aum of Rough Stone (2nd year)
David David of Adlatas	4lm
	12* 33* 21.83*N to 12* 33* 31.00*N
	78° 21' 43.58°E to 78° 21' 53.65°E
	57- L/06
	13 Nos
	Roc.No.211/2019/Mines dated 13.06.2019
Mining plan approval letter	Roc No.211/2019/mines dated. 06.09.2019
500m letter	Roc.No.211/2019/mines dated, 24.10.2019
Water requirement:	2.5 KLD
purposed (in KLD)	0.5 KLD
	İ
	1.0KLD & 1.0 KLD
1	TNEB
1	DG set
	65m
	No.
1	
= =	Rs. 64,00.000/-
	Capital Cost- Rs. 19,57,000/-
EMP cost	Recurring Cost/Annum- Rs. 12,32.950/-
<del>  </del>	Rs. 5.00,000/-
CER cost	KG, 3.00,000/-
	500m letter Water requirement: 1. Dranking & domestic

Based on the presentation and documents furnished by the project proponent. SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production quantity of 5,29,243 cu.m of Rough Stone to the depth of 41m for a period of 5 years and however not exceeding the annual peak production of 1,45,730

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SEAC -TN

CHAIRMAN ... SEAC-TO m<sup>1</sup> of Rough stone as per the approved mining plan 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.
- The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennal Region before obtaining the CTO and get the necessary statutory permission under the MMR 1961 pertaining to the quarry working operations.
- The mine manager and other statutory competent persons such as blaster (or)
  mine mate shall be appointed before the commencement of mining operation
  as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations,
  1961.
- 4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1968 in Group Vocational Training Centre, Trichy.
- 5. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
- 6. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this duster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 3<sup>rd</sup> year whichever is earlier, by involving any of these reputed Research and Academic Institutions

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- CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IJT-Madras, NIT-Dept of Mining Engg. Surathkal and Anna University CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MOEF, TNPCB, AD/Mines-DGM and DMS. Chennal as a part of Environmental Compliance..
- 7. Since few habitations are located within 160-300 m, the PP shall obtain necessary permission from the Regional inspector of Mines (Director of Mines Safety). DGMS, Chennal Region after the execution of the lease before the commencement of quarrying operations to carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving any of these reputed Research and Academic Institutions CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engs, Surathkal and Anna University CEG Campus, A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennal as a part of Environmental Compliance.
- The Project Proponent shall develop the Green belt activities (tree plantations)
  in the safety zone as stipulated in the Mining Plan around the periphery of the
  proposed quarry lease before obtaining the CTO from the TNPCB.
- The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breaken, etc.
- 10. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.

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- 11. The Project Proponent 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.
- 12. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
- 13. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
- 14. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper endosures before obtaining the CTO from TNPCB.
- 15. Since the quarry is located in the duster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
- 16. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
- 17. The Project Proponent shall send a copy of the dearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
- As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated:
   30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.

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- 19. As accepted by the Project proponent the CER cost is Rs. 5.0 lakh and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.
- 20. The Project Proponent shall cater to the needs of the local population such as employment opportunities, adequate Air Pollution Control measures etc. as committed during public hearing.

Agenda No: 359 - 06 (File No: 4400/2022)

Existing Black Granite quarry over an extent of 1.30.5Ha at S.F.No. 47/4, Kunnam Village, Vanur Taluk, Kancheepuram Ditrict, Tamil Nadu by M/s. Enterprising Enterprises - for Terms of Reference under violation.

(SIA/TN/MIN/23671/2018, 07/04/2018)

The proposal was placed in this 359th Meeting of SEAC held on 02:03:2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

## The SEAC noted the following:

- 1. The Project Proponent, M/s. Enterprising Enterprises, has applied for the Terms of Reference under violation for the Existing Black Granite quarry over an extent of 1.30,5Ha at S.F.No. 47/4, Kunnam Village, Vanur Taluk, Kencheepuram Ditrict, Tamil Nadu
- 2. The proposed quarry/activity would fall under Category "8" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. The Lease was granted by industries department vide G.O. Ms. No. 125 dated: 02.04.1993. The lease was executed on 06.04.1993 and lease expires on 05.04.2023.
- 4. Earlier The proposal was placed in the 567\* Authority meeting held on 08.11,2022. After detailed discussion, SEIAA noted that
  - 1. The proposal was placed in 79th SEAC meeting and subsequently in 112th SEAC meeting held on 29,05,2018.

The proposal was recommended for the grant of Standard Top for mining projects as specified by MoEF & CC subject to the above confditions in

addition to the Additional TOR specified by the SEAC to deal with the violation aspects of the mining projects.

 Subsequently, the proposal was placed in 309th Authority meeting held on 01,06,2018.

The Authority discussed in detail: it was found that the mining plan presented by the proponent during approval is not enclosed. The mining plan given in the proposal has also expired in the year 2017-18. Hence, the Authority decided to address the applicant to furnish the approved mining plan.

 Subsequently, a letter was addressed to the PP vide Lr No. SEIAA-TN/F.4400/2017 Dated 07.06.2018 to furnish the details called for in 309<sup>th</sup> SEIAA meeting.

Subsequently, a letter was addressed to the PP vide Lr No. SEIAA-TN/F.4400/2016/NGT Dated 28.10.2020 to furnish the following details to Member Secretary. SEIAA-TN within thirty days from the date of receipt of this letter so as to consider your proposal for EC/ToR under both violation or non-violation categories in accordance with existing Rules.

- The details of validatity of Mining plan as approved by the competent Authority.
- 2. Copy of approved scheme of mining in case of renewal.
- Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
- 4. Present status of operation of quarry.
- Details of abandoned/expired, existing and proposed quarries located within 500m radius of the quarry lease area in the prescribed format obtained from AD/DD of the Department of Geology and Mining
- The latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.

If any reply is not received within the stipulated time, it will be construed that you are not interested in the continuing the project and your file will

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be recorded without further notice. It is also informed that the processing fee will also be forfeited without further notice.

- Further, the proponent has given a reply letter to the previously called for additional details dated: 28.11.2020 received to the O/o SEIAA on 02.12.2020.
- Subsequently, the proponent has submitted a request letter dated 28.11.2020 received to the O/o SEIAA on 19.03.2021 stating that

"The documents sought from us namely the details of validity of Mining Plan as approved by the competent Authority and the copy of approved scheme of mining in case of renewal is pending with the concerned authority, we will submit the same to the Hon'ble Authority as and when we receive it.

Therefore, in view of the judgment in NGT OA 136/2017 and W.M.P. Nos. 3361, 3362 & 3721 of 2018 and W.P. No. 11189 of 2017, it is clear that we do not fall under the violation category as our Application for EC dated 23.10.2015 is prior to the outoff 31.03.2016 as specified by the Hon'ble Apex Court in Deepak Kumar vs. State of Haryana and Ors. (2012 (4) SCC 629) and as stated by the Hon'ble NGT (52) in M/s. Gem Granites vs. MOEF&CC and Ors. O.A. No. 140/2017, 281/2017 and 282/2017..."

Hence, in the view of the above facts, SEIAA decided to refer back the proposal to SEAC for further scrutiny and appraisal and recommend its remarks to SEIAA.

Based on the presentation and documents furnished by the project proponent, SEAC decided to grant of Terms of Reference (TOR) under Violation category, and subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.

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- The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification S.O. 804 (E), dated, 14.03-2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
- The proponent must submit approved scheme of mining along with EIA Report for the proposed period of quarrying approved by the competent authority.
- The proponent must withdraw the duplicate applications in Parivesh Portal vide Online proposal Number \$(A/TN/MIN/27198/2018 dated: 09.09.2017.
  - 4. The PP shall enumerate the details of the structures/sheds and its age. type & nature of construction with photographs located in 50m, 100m, 200m; 300m along with number of habitants, etc.
- 5. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated, 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
- The PP shall furnish a letter from DFO on the proximity details of nearest Reserve Forest, Wild Life sanctuaries & Protected areas with respect to the proposed project site.
- The proponent must submit 500m cluster certificate along with EIA Report, if not submitted earlier.
- 8. 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 prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed

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- quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
- 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.
- 10. 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.
- 11. 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.
- 12. If the proportion 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,
  - a) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - b) Quantity of minerals mined out.
  - Highest production achieved in any one year
  - d) Detail of approved depth of mining.
  - e) Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - g) If EC and CTO already obtained, the copy of the same shall be submitted.
  - ti) Whether the mining was carried out as per the approved mine plan (or EC if Issued) with stipulated benches.

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- 12. 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).
- 13. The PP shall carry out Drone video survey covering the cluster, Green belt , fending etc.,
- 14. 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.
- 15. 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.
- 16. 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 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.
- 17. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to 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.

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- t8. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, sir quality, soil quality & flora/fauna including traffic/vehicular movement study.
- 19. 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, blodiversity, air pollution, water pollution, dimate 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.
- 20. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
- 21. 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.
- 22. 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.
- 23. 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, degrance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Ceology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.

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- 24. 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.
- 25. Impact on local transport infrastructure due to the Project should be indicated.
- 26. 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.
- 27. A detailed mine dosure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
- 28. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
- 29. The Public hearing advertisement shall be published in one major. National daily and one most circulated Tamil daily.
- 30. The PP shall produce/display the EIA report, Executive summery and other related information with respect to public hearing in Tamil Language also.
- 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

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- 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. Tatler/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
- 34.A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
- 35.A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
- 36. Occupational Health Impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of preplacement 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.

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- 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.

Agenda No: 359 - 07 (File No: 9375/2022)

Proposed Rough Stone and Gravel quarry over an extent of 2,49,00 Ha at 5.F,No.594 (Part) of Prencherl Village, Manur Taluk Tinanelvell District, Tamil Nadu by Thiru P Manokaran - for Environmental Clearance. (SIA/TN/MIN/281629/2022, 05.07,2022)

The proposal was placed in this 359<sup>th</sup> Meeting of SEAC held on 02.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parlyesh,nlc,in).

## The SEAC noted the following:

- The Project Proponent, Thiru P Manokaran, has applied for the Environmental Clearence for the proposed Rough Stone and Gravel quarry lease over an extent of 2.49.00 Ha at S.F.No.594 (Part) of Prancheri Village, Manur Taluk Tirunelveli District, Tamil Nadu
- The proposed quarry/activity would fall under Category "82" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

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			The second of th
1	Name of the Owner/Firm	:	Thiru, P.Manoharan
	l .	١	S/o. Paul Thomos
	1		No. 5/52, Kanavilai Street
		i	Avaraikulam,Pazhavoor
ı			Radhapuram
	<u> </u>		Tirunelvelt - 627133
2	Type of quarrying	;	Rough stone and Gravel
3	S.F.No. of the quarry site	:	594 (Part)
4	Village in which situated	:	Prancheri
5	Taluk in which situated	:	Manur
6	District in which situated	-:	Tirunelveli
7	Extent of quarry (in ha.)	፡	2,49.0 Ha
8	Latitude & Longitude of all corners	;	08°55'18.49" N to 08°55'23.90" N
	of the quarry site		77°45'08.37" E to 77°45'14.96" E
9	Topo Sheet No.	:	58·H/13
10	Type of mining	Γ	Opencast Mechanized Mining
11	Period of quarrying proposed	;	5 years
12	Production (Quantity in m³)	1	4,43,700m <sup>1</sup> of Rough Stone &
		1	33.056m³ of Gravel
13	Depth of quarrying	1	42m (2m Gravel + 40m Rough stone)
14	Depth of water table	T	Depth of Summer season = 58m
	1	1	Depth of Rainy season = 53m
15	Man Power requirement per day:	T	40 Nos.

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16	Water requirement:	:	- 2.5 KLD
]	Drinking & domestic		0.6 KLD
•	purposes		1.5 KLD
	2. Dust suppression		. 0.4 KLD
	3. Green Belt		:
17	Power requirement	Г	<del></del>
	a. Domestic Purpose		TNEB
	b. Industrial Purpose		3,60,470 Liters of HSD will be utilized
			for 5 years
18	Precise area communication	:	Rc.No.M3/34899/2020, Dated
	approved by the Assistant		02.05,2022
	Director, with date		
19	Mining Plan approved by	፥	Rc.No.M3/34899/2020, Dated
İ	Assistant Director, Department of		14.05.2022
ļ	Geology and Mining with date		
20	Assistant Director, Department of	Ī	Rc.No.M3/34899/2020, Dated
	Geology and Mining 500m cluster		14,05.2022
	letter		
21	VAO certificate regarding 300m	<u>.                                    </u>	Letter dated: 06.06.2022
1	radius duster		
22	Project Cost (excluding EMP cost)	ļ.	Rs. 59.75,000/-
23	EMP cost	<del>ŀ</del>	Capital Cost - Rs. 29,76,300
23	LIMIT COST		Recurring Cost - Rs. 23,66.550
24	CER cost	$\vdash$	Rs. 5,00,000
Z4	CEK COS		

The proposal is now placed in the 359° SEAC meeting held on 02.03.2023. 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 ultimate depth of mining up to 42m 8GL and the production of 4.43,700 m² of Rough stone and 33,056 m² of Gravel. The annual peak production shall not exceed \$1,980 m² of

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Rough stone and 17,856 m<sup>3</sup> of Gravel 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 faid down in the mining plan approved and renewed by competent authority. Irom 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 inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS. Chennai before obtaining the CTO.
- The mine manager and other statutory competent persons such as blaster (or)
  mine mate shall be appointed as per the provisions of Mines Act 1952 and
  Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the
  DEE/TNPCB.
- 4. The proponent shall maintain 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 DCMS Circular, II/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
- 5. Further, the PP shall meiotain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
- The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
- 7. The Project Proponent (PP) shall submit a "Slope stability action plan" incorporating the haul road ramp keeping the benches intact for the proposed.

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- quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTQ from TNPCB.
- 8. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 2 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennal-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennal as a part of Environmental Compliance without any deviation.
- 9. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
- 10. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University 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.
- 1). No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.

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- 12. 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.
- 13. 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.
- 14. 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.
- 15. The PP shall methodology carry out the mitigation measures as spell out in the revised EMP.
- 16. Since a tank is located at a distance of 460 m from the proposed quarry site, the PP shall carry out the comprehensive hydrogeological studies within 2 years from the commencement of the quarrying operation to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS. Chennai as a part of Environmental Compliance.
- 17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

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- 18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
- 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 achieve EMP furnished.
- 20.In lieu of CER, the project proponent agreed to spend an amount of Rs 5,00,000/- towards Conservation Cost in the form of Demand Draft to the Head Account of Respective DFO, as the proposal falls within 10Km radius from Protected Area Gangaikondan Spotted Deer Sanctuary.

Agenda No: 359 - 08 (File No: 9433 /2022)

Proposed Earth Quarry over an extent of 1,47.5He at SF.No.1285/ 1A & 1285/ 2A of Mottanuthu Village, Andipatti Taluk, Theni District by Thiru.R. Thangapanidan - For Environmental Clearance.

(Proposel No. SIA/TN/MIN/285848/2022, dt: 28/07/2022)

The proposal was placed in this 359th Meeting of SEAC held on 02.03.2023. The project proponent gave detailed presentation, The details of the project (umished by the proponent are available in the website (parivesh.nic.in).

#### The SEAC noted the following:

- The Project Proponent, Thiru.R. Thangapanidan, has applied for the Environmental Clearance for the proposed Earth Quarry over an extent of 1.47.5He at SF.No.1285/1A & 1285/2A of Mottanuthu Village, Andipatti Taluk, Theni District, Tamil Nadu
- 2. The proposed quarry/activity would fall under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. As per the mining plan, the lease period is 3 years and the mining plan period is three years. The quantum of mining for the entire five-year period should not exceed – 16,380 cu.m. of Earth. The Annual peak production is 5,460 cu.m of Earth. The ultimate depth of mining- 2 metres below GL.

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#### TABLE MADO PORRET DEPARTMENT

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and Cheef whether Warden (PAC).
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Guindy-Telechery Main Road.
Neer Kamitapurans Chemis Part.
Chapman - 400 032.

To The Member Secretary, Syste Sustransport Index: Assessmint Againstop, Toronto Made, Selfmont, Christop - 15.

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Tel. No. W15/29838/2022 44444 28-13-7022

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Res Samilton Zone - Scivillipation Magazzalei Tiger Reserve -Considering deemed 10 Kms for Sensitive Sone handary for development projects and initiating propensi of Set Sensitive Zone for the Scivillipation Magazzalei Tiger Reserve - Conflictation straight for -Reserving.

Rafi Muscher Secretary, SBIAA-TN Select No. SELAA-TH/F, No. 7570/2016

With reference to the above, it is informed that Srivillipating Magazanian Tigar families does not come under the protected orde. However the signs resisted completes two protected order LA, Srivillipatiner Griendel Squirest Wildlife Successey and Magazanial Wildlife Southerry and certain sign-septimity RPs. The "Quiddines for preparation of fice Southiese Zones around Matiental Parks and Wildlife Southerries" insult by the Government of leate vide letter P. No. 1-9/2007-WL-1 (pt) Apartle 9-82-11 is only for National Parks and Wildlife Southerness.

- 2) Based on the above, Anal coefficients of Magazinian WEARA Specimery had been broad by the Government of India vide S.O. No. 3651 (E) dame 10-10-2019 to an extent of Sco Secultive Zone varies from Zone' Kim to 1.7 Kim and Scientification Granical Squirred WHARA Senectory vide S.O. No. 3974 (E) dated 30-10-2019 to an immune of Scientific Zone varies from Zone' Kim to 6.2 Kims.
- 3) Hence, defined 10 Kms of Eco Sensitive Zone notification for intrilipation bingmarket Tiper Reserve is not applicable and treets for Sensitive Zone notification in also not required, since the above said two macroparies for Sensitive Zone notification have already been insued by the Government of India.

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ter Principal Chief Committee of Persons and Chief Wildfile Worker (PMC)

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4. The proposal is for mining of Earth; the salient features of the proposal are as follows:

Section in the section of the sectio

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<u> </u>	Name of the Owner/Firm	: Thiru.R. Thangapanidan	
ļ		S/o Ramar	
]		No.I-92, Kaliyammankovil Streett,	
		Manjinayakkanparti, Boothipuram,	
		Bodinaickanur Taluk, Theni District.	
2	Type of quartying	: Earth	
3	S.F.No. of the quarry site	: 1285/IA & 1285/2A	
4	Village in which situated	: Mottanuthu	
5	Taluk in which situated	: Andipatti	
6	District in which structed	: Theni	
7	Extent of quarry (in ha.)	: 1.47.50 Ha	
8	Latitude & Longitude of all	: 109°55'18.83" N to 09°55'23.35" N	
	corners of the quarry site	77°33'41,60" E to 77°33'46.32" E	
9	Topo Sheet No.	: 58·C/09	
10	Type of mining	Opencast method of shallow mining	
1	1		
		without drilling and blasting	
11	Period of quarrying	without drilling and blasting : 3 years	
11	Period of quarrying proposed		
11			
	proposed	: 3 years	
12	proposed  Production (Quantity in m²)	: 3 years : 16,380m³ of Earth	
12	proposed  Production (Quantity in m²)  Depth of quarrying	: 3 years : 16,380m³ of Earth : 2m	
12 13	proposed  Production (Quantity in m²)  Depth of quarrying  Depth of water table	: 3 years : 16,380m³ of Earth : 2m : 36m	
12 13	proposed  Production (Quantity in m²)  Depth of quarrying  Depth of water table  Man Power requirement per	: 3 years : 16,380m³ of Earth : 2m : 36m	
12 13 14 15	proposed  Production (Quantity in m²)  Depth of quarrying  Depth of water table  Man Power requirement per day:	: 3 years : 16,380m³ of Earth : 2m : 36m 7 Nos.	-
12 13 14 15	proposed  Production (Quantity in m²)  Depth of quarrying  Depth of water table  Man Power requirement per day:  Water requirement:	: 3 years : 16,380m³ of Earth : 2m : 36m 7 Nos.	
12 13 14 15	proposed  Production (Quantity in m²)  Depth of quarrying  Depth of water table  Man Power requirement per day:  Water requirement:  4. Drinking & domestic	: 3 years : 16,380m³ of Earth : 2m : 36m 7 Nos. : 1.0 KLD 0.3 KLD	
12 13 14 15	proposed  Production (Quantity in m²)  Depth of quarrying  Depth of water table  Man Power requirement per day:  Water requirement:  4. Drinking & domestic purposes	: 3 years : 16,380m³ of Earth : 2m : 36m 7 Nos. : 1.0 KLD 0.3 KLD 0.4 KLD	
12 13 14 15	proposed  Production (Quantity in m²)  Depth of quarrying  Depth of water table  Man Power requirement per day:  Water requirement:  4. Drinking & domestic purposes  5. Dust suppression	: 3 years : 16,380m³ of Earth : 2m : 36m 7 Nos. : 1.0 KLD 0.3 KLD 0.4 KLD	

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-	d. Industrial Purpose		2,730 Liters of HSD will be utilized for the entire project life
18	Precise area communication approved by the Assistant Director, with date	;	Na.Ka.No.862/Kanlmam/2021, Dated: 13.06.2022
19	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Rc.No.862/2021 - Mines, Dated: 29.06.2022
20	Assistant Director, Department of Geology and Mining 500m cluster letter		Rc.No.862/Mines/2021, Dated: 04.07.2022
21	VAO certificate regarding 300m radius cluster		Letter dated: 30.06.2022
22	Project Cost (excluding EMP cost)	;	Rs. 7,78,000/-
23	EMP cost	:	Capital Cost - Rs. 4.93 Lakhs Recurring Cost - Rs. 1.68 Lakhs
24	CER cost		Rs. 1.50,000

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 maximum period of 3 Years for the production quantity of 16.380 m² of Earth and the peak production does not exceed 5.460 m³ of Earth/year & the ultimate depth of mining upto 2m BGL subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

 The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority) from time to time, subject to a maximum of thirty years, whichever is earlier.

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- The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
- 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.
- 5. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment. Forest and Climate Change, which entait 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.
- Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
- 7. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
- 8. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 9. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.

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

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- processing of granite in the area for which such licence or lease is granted, as per
- 17. 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.
- 18. The project proponent shall ensure that the provisions of the MMDR Act. 1957, the MCDR 2017 and Tamilhadu 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.
- 19. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
- 20. The Project Proponent shall ablde by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 21. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the N6WL clearance, as per the existing law from time to time.
- 22.All the conditions imposed by the Assistant/Deputy Director. Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.

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- 23. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation). Act, 2015 and rules & regulations made there under.
- 24. 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.
- 25. 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 fooder, flora, fauna etc.
- 26. 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.
- 27. As accepted by the Project proponent the CER cost is Rs. 1.50 lakhs and the amount shall be spent for the Government Middle School, Ganesapuram Village as committed, before obtaining CTO from TNPCB.

Agenda No: 359 - 09 (File No: 4793/2018)

Existing Grey Granite (Paradiso) Mine Lease over an extent of 1.21.0 Ha at S.F.No. 438 (part) in Jagodevipaleyam Välage, Bargur Taluk, Krishnagiri District, Tamil Nadu by Tmt.S. Naseera – For Environmental Clearance (SIA/TN/MIN/37047/2015 dated 30.12.2015)

The proposal is placed in this 359th meeting of SEAC held on 02.03.2023. The details of the project are available in the website (partvesh.nic.in).

### The SEAC noted the following:

 The project proponent, Trnt.S. Nascera has applied for Environmental Clearance for the Existing Grey Granite (Paradiso) Mine Lease over an extent pt 1,21.0 Ha

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- at 5.F.No. 438 (part) in Jagadevipalayam Village. Bargur Taluk, Krishnagiri. District, Tamil Nadu.
- The project/activity is covered under Category "82" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
- 3. The salient features of the project are as follows:

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1	Name of the Owner/Firm	Tmt, S.Naseera.
		W/o, Thiru, Syed Ahamed,
į		Jittobanapalli,
		Thogarapalli Post.
i		Krishnagiri District – 635 203
2	Type of quarrying (Savudu/Rough	Grey Granite (Paradiso) Quarry
	Stone/Sand/Granite)	1
3	S.F.No. Of the quarry site with area	438 (part)
	break-up	
¦ 4	Village in which situated	Jagadevipalayam
5	Taluk in which situated	Bargur
6	District in which situated	Krishnagiri
7	Extent of quarry (in ha.)	1.21.0 Ha
8	Latitude & Longitude of all corners of	12°28'22.3°N to 12°28'26.8°N
	the quarry site	78*20'21.1"E to 78*20'25.7"E
9	Topo Sheet No.	57 L/7
10	Type of mining	Open cast Serni Mechanized Mining
11	Period of quarrying proposed	5 years
12	Production (Quantity in m')	RoM - 24,665m3, Grey Granite (@
		20% recovery) ~ 4933m1
13	Depth of quarrying	36m below ground level
14	Depth of water table	50 - 40m
15	Man Power requirement per day:	18 Nos.
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16	Water requirement:	3.0 KLD
	Drinking & domestic purposes	1.0 KLD
	2. Dust suppression	1.0 KLD
	3. Green Belt	1.0 KLD
17	Power requirement	1,66,960 Liters of HSD for the entire
		project life
18	Precise area communication approved	G.O.(3D) No.15. Industries (MME-2)
	by the Principal Secretary to	Department date:14.02.2011.
	Government with date	
19	Mining Plan approved by the	Rc.No.1121/MM4/2023 Dated:
'	Commissioner, Dept. of Geology and	20.02.2023
	Mining with date	
20	500m cluster letter issued by the	Roc.No.355/2015/Mines-1 Dated:
	Deputy Director (i/c), Dept. of	24.06.2016.
	Geology and Mining with date	
21	VAO certificate regarding habitations	Letter dated: 10.06.2016.
	in 300m radius	
22	Project Cost (excluding EMP)	Rs.33.00,000/-
23	EMP cost	Capital cost: Rs.27,85,700/-
		Recurring cost: Rs.11.22.720/-
24	ToR issued details	ToR under violation issued letter
		No. SEIAA-TN/F. No.
		4793/SEAC/ToR-477/2018 Dated:
		07.06.2018.
25	Amendment ToR details	Amendment to ToR was issued vide
		Letter No. SEIAA-TN/F, No.
		4793/SEAC/ToR-477/A/2018 Dated:
		30.07.2018.
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- 4. The proponent was issued with ToR under violation category vide Letter No. SEIAA-TN/F. No. 4793/SEAC/ToR-477/2018 Dated: 07.06.2018 for carrying out mining operations without obtaining Environmental Clearance.
- 5. Then the proponent submitted an application seeking extension of validity in the Terms of Reference issued under violation in the PARIVESH Portal vide application no. \$IA/TN/MIN/269653/2022 and it was placed for appraisal in the 308\* meeting of SEAC held on 01.09.2022. During the presentation the proponent stated as follows:

"We have submitted the application seeking Terms of Reference for Environmental Clearance for the existing Grey Granite (Paradiso) quarry over an extent of 1.21.0 Ha in S.F.Nos.438 (Part) at Jagadevipalayam village of Krishnagiri Taluk, Krishnagiri District under violation category.

As per the National Green Tribunal, Southern Zone, Chennal Original application no.136/2017 (SZ), dated.30.06.2020, our quarry lease does not attract violation and 100% cost penalty, the lease may be as normal application.

Hence, we would like to withdraw the above-mentioned proposals and also we have withdrawn the Terms of Reference online proposal no.SIA/TN/MIN/27188/2018 dated on 11.09.2017 and Terms of Reference online proposal no.SIA/TN/MIN/23825/2018 dated on 07.04.2018, Online Proposal No.SIA/TN/MIN/211252/2021 dated 30.07.2021 (terms of reference) – TOR Extension and Online Proposal No.SIA/TN/MIN/269653/2022 dated.26.04.2022 (terms of reference) – TOR Extension and kindly consider the same.

We would like to withdraw the above-mentioned proposals which was submitted to SEIAA"

The Committee after detailed discussions considered the reasons specified by the PP and decided that SEIAA may accept the TOR 'withdrawal request' of the proponent.

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Subsequently, it was placed in 553<sup>rd</sup> Authority meeting held on 23.09.2022. The authority decided to accept the withdrawal request of the proponent after obtaining the letter/details from AD mines as mentioned in the minutes.

On receipt of the details, the proposal for Environmental Clearance is placed in this 359° meeting of SEAC held on 02.03.2023.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for RoM – 24,665m<sup>3</sup>, Grey Granite (@ 20% recovery) – 4933m<sup>3</sup> but not exceeding an annual peak production of 1259 m<sup>3</sup> of Black Granite up to an ultimate depth of 36m BGL, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

- 1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by the competent authority, from time to time, subject to a maximum of thirty years, whichever is eadlier, vide MoEF&CC Notification No. S.O. 1807(E) Dt. 12.4.2022.
- 2. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall adhere the EMP as committed.
- 3. The proponent shall obtain a 'Star Rating' system awarded by Anna University, Chennal annually to the mining lease being operated for their efforts and shall contribute Rs.5 Lakhs for the initiatives taken for successful implementation of the Sustainable Development Framework (SDF).
- The proponent is requested to prepare Standard Operating Procedure for using Diamond Wire Saw Cutting method before obtaining CTO.
- 5. The proponent shall mandatorily appoint the statutory Mines Manager & other statutory competent persons and the Geologist in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules. 1999 respectively.

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- The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennal Region before obtaining the CTO from the TNPCB.
- 7. The proponent shall construct the 'S3 (or) G2' type of fending all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11,2019 & No. 10 of 19.07,2002 respectively.
- The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
- 10. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, O8 and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained property.
- Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
- Perennial maintenance of haulage road/village / Panchayat Road shall be done
  by the project proponent as required in connection with the concerned Govt.
  Authority.
- 13. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e., quantum of Granite, waste, over burden, side burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall

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- 14. The Proponent shall ensure that the overburden, waste rock and non-saleable granite generated during prospecting or mining operations of the granite quarry shall be stored separately in properly formed dumps on grounds earmarked. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/droulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps. Such dumps shall be properly secured to prevent the escape of material in harmful quantities which may cause degradation of the surrounding land or silting of water courses.
- 15. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 16. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
- 17. The PP shall also develop the Green belt around the office buildings, along the side of the roads and on backfill areas, if any, apart from along the mine lease boundary. The purpose of green belt around the project is to capture the fugltive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO. State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

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- 18. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing
- 19. 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.
- 20. Dust, Noise and Vibration Related: Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed. Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 21. The impact on fauna species in the mining area is mostly due to noise vibration and loss of vegetation cover. No working is proposed during night time, i.e., after 6 pm. No lighting is allowed to spread outside quarry lease area.
- 22. 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 and the abandonment of the granite quarry as assured in the Environmental Management Plan& the approved Mine Closure Plan.
- Ground water quality monitoring should be conducted once in every six months
  and the report should be submitted to TNPCB.
- 24. 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.

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- 25. 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.
- 26. 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.
- 27. 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.
- 28. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the Granite Conservation and Development Rules 1999, the MCDR 2017 and Tamil Nadu Minor Mineral Concession Rules 1959 are compiled by carrying out the quarrying operations in a skilful, 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.
- 29. 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). Chennal Region by the proponent without fail.
- 30. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
- 31. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the

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- quarrying operation, if the project site attracts the NSWL clearance, as per the existing law from time to time.
- 32. All the conditions imposed by the concerned Assistant/Deputy Director, Geology & Mining, in the mining plan approval letter and the Precise area communication letter issued by the concerned District Collector should be strictly followed.
- 33. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat / local representatives, if any, from whom any suggestion/representation has been received while processing the proposal.
- 34. 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.
- 35. As accepted by the Project Proponent the revised CER cost is Rs. 5 lakhs and the amount shall be spent for the committed activities towards Government Higher School, Thogarapalli before obtaining CTO from TNPCB.

Agenda No: 359 - 10 (File No.7439/2020)

Proposed Earth Quarry lease over an Extent of 3.64.5 Ha in S.F.No. 712/2C, 712/2D & 712/2E (P). Thirumullaivasal Village, Sirkazhi Taluk, Mayiladuthural (Formerly Nagapattinam) District, Tamil Nadu by Thiru. V. Senthamitseran – For Environmental clearance (SIA/TN/MIN/142135/2020, dated: 10.02.2020)

The proposal is placed in this 359<sup>th</sup> meeting of SEAC held on 02,03,2023. The details of the project furnished by the proponent are given in the website (partiesh,nic.in). The SEAC noted the following:

- The Proponent, Third. V. Senthamliseran, has applied for Environmental Clearance for the Proposed Earth. Quarry lease over an Extent of 3.64.5.
   Ha in S.F.No. 712/2C. 712/2D & 712/2E (P). Thirdmollalvasal Village, Sirkazhi Taluk, Mayiladuthurat. (Formerly Nagapattinam) District, Tamil Nadu.
- 2 The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

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# 3. The sallent features of the project are as follows:

i t Egy-	Specification of the second of	Supplied of the Supplied Suppl
1	Name of the Owner/Firm	Thiru, V.Senthamilseran, S/o Varatharajan, No.4/365, Kaliyamman Kovil Street, Thirumullaivasal, Sirkazhi Taluk, Mayiladuthurai (Formerly Nagapatinam) District – 609 113.
2	Type of quarrying (Earth/Rough Stone/Sand/Granite)	Serth Quarry
3	S.F.No. Of the quarry site with area break-up	712/2C, 712/2D & 712/2E (P)
4	Village in which situated	Thirumullaivasal
5	Taluk in which situated	Sirkazhi
6	District in which situated	Mayiladuthurai (Formerly Nagapattinam) District.
7	Extent of quarry (in ha.)	3.64.5Ha
8	Latitude & Longitude of all corners of the quarry site	11°15'37,05"N to 11°15'43.51"N 79°49'46.20"E to 79°49'52,41"E
9	Topo Sheet No.	58-M/15
10	Type of mining	Open cast Method of shallow quarrying
l n	Period of quarrying proposed	2 years
12	Production (Quantity in m²)	60,860m3 of earth
13	Depth of quarrying	2m below ground level
14	Depth of water table	15m below ground level
t5	Man Power requirement per day:	8 Nos.
16	Water requirement: 6. Drinking & domestic purposes 7. Dust suppression 8. Green Belt	2.40 KLD 0.45 KLD 1.20 KLD 0.75 KLD
17	Power requirement	10.320 litres of HSD for the entire project life

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18	Precise area communication issued by the District Collector, Dept. of G&M with date	Rc.No.270/Mines/2018 Dated:10.01.2019.
19	Revised Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.270/Mines/2018 Dated:23.08.2022.
20	500m duster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.270/Mines/2018 Dated:09.12.2019.
21	VAO certificate regarding habitations in 300m radius	Dated.02.01.2020
22	Project Cost (excluding EMP)	Rs.24.52.000/-
23	EMP cost	Capital cost: Rs.17.47.900/- Recurring cost: Rs.6,40,890/-

The project proponent has submitted a soil test report obtained from the Department of Civil Engineering. NIT, Trichy vide letter dated:28.04.2022. According to the test report, the total % of sand in the soil sample is 40% and the soil is classified as High Plastic Silt (MH).

Earlier, the proposal was placed in 159th, 209th & 298th meeting of SEAC and was deferred for reasons as stated in the minutes. In 298th meeting held on 22.07.2022, the Committee decided to obtain the following additional details from the proponent to avoid the discrepancies associated with the term 'savudu':

- i) The PP shall revise the existing Mining Plan for incorporating the correct name of the mineral available in the proposed quarry lease and the same shall be furnished after it is duly approved by the concerned AD (Mines) of the district.
- Soil sampling should be carried out by NABET Accredited consultant by adopting standard protocols in the presence of EIA Coordinator/Geologist indicating the place of sampling with coordinates. Iithological details of the site, video & photographs and the same shall be submitted for analysis to NIT Trichy and to furnish the report.
- iii) The PP shall also get a letter from the concerned AD (Mines) stating the location status of the proposed site whether it falls under notified areas (or) protected zones as per the order of the High Court.

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Based on the presentation and details furnished by the project proponent. SEAC recommended to grant of Environmental Clearance for the production of 60,860m<sup>2</sup> of earth for the maximum period of Two years with an ultimate depth of 2 m BGL, subject to the standard conditions & 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.
- Tree plantation & fencing around the mine lease area shall be completed before starting the production.
- The proponent shall mandatorily appoint the required number of statutory officials
  and the competent persons in relevant to the proposed quarry size as per the
  provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
- 4. The proponent shall erect fending 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.
- 6. The Project proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter-burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment. Forest and Climate Change, which entail adverse environmental impacts, even if it is alpart of

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- 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.
- 7. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- 8. The proponent shall ensure that the stope of dumps is sultably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The guillies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.
- 9. Perennial sprinkling arrangement shall be in place on the haulage road for lugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPC8 once in slx months.
- 10. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
- 11. 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.
- 12. The purpose of Green belt around the project is to capture the fugitive emissions. carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of Indigenous plant species should be planted as given in the appendix in consultation with the DFO. State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 13. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted in proper spacing as per the advice of local forest

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authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner

- 14. 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.
- 15. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 16. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 17. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 18. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 19. 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.
- 20. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.

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- The Project proponent shall, after ceasing mining operations, undertake re-grassing. the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
- 22. 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.
- 23. The project proponent shall ensure that the provisions of the MMRD, 1956, 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.
- 24. 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.
- 25. 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.
- 26. 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 dearance, as per the existing law from time to time.
- 27.All the conditions imposed by the Assistant/Deputy Director, Geology & Mining. concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.

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- 28. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project information as shown in the Appendix –II of this Minutes.
- 29.As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
- 30.As accepted by the Project proponent the CER cost is **Rs. 2.0 lakths** and the amount shall be spent for the committed activities towards Government Higher Secondary School, Thirumullaivasal Village. Sirkazhi taluk, Maylladuthural District, before obtaining CTO from TNPCB.

Agenda No: 359-11 (File No: 9371/2022)

Proposed Rough Stone & Gravel quarry Lease over an extent of 0.89.0 Ha at S.F.No. 250/1A. 1B & IC in Andipalayam Village, Kinathukadavu Taluk, Colimbatore District, Tamil Nadu by Tvl.Negamam Granites Private Limited – For Environmental Clearance (SIA/TN/MIN/279983/2022 dated 25.06.2022)

The proposal is placed in this 359° SEAC meeting held on 02.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

#### SEAC noted the following:

- The Project Proponent, Tvl.Negamam Granites Private Limited has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 0.89.0 Ha at S.F.No. 250/IA, 18 & 10 in Andipalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamii Nadu.
- The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. The salient features of the project are as follows:

	Name of the Owner/Firm	Tvl. Negamam Granites Private Limited, No.5/63, Seripalayam, Kinathukadavu Taluk.
:		Colmbatore District - 64/71/20.

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Ż	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel Quarry
3	S.F No. Of the quarry site with area break-up	250/IA, IB & IC
4	Village in which situated	Andipalayam
5	Taluk in which situated	Kinathukadavu
6	District in which situated	Coimbatore
7	Extent of quarry (in ha.)	0.89.0Ha
8	Latitude & Longitude of all corners of the quarry site	10°47'51.62"N to 10°47'55.15"N , 77°05'02.20"E to 77°05'05.76"E
9	Topo Sheet No.	58 - F/OI.
Ĺ	ropo sueer no:	98 - 1701.
10	Type of mining	Opencast Mechanized Mining Method
11	Period of quarrying proposed	5 years
12	Production (Quantity in m³)	73850m3 of Rough stone & 11988m3 of gravel
13	Depth of quarrying	37m below Ground level
14	Depth of water table	74-69m
15	Man Power requirement per day:	15 Nos
16	Water requirement:	I.3 KLD
	1. Drinking & domestic purposes	0.2 KLD
	2. Dust suppression	0.7 KLD
1	3. Green Belt	0.4 KLD
17	Power requirement	61,072 litres of HSD for the entire project life
18	Precise area communication issued by	Rc.No.163/Mines/2020.
	the Assistant Director . Dept. of Geology & Mining with date	date:17.03.2022.
19	Mining Plan approved by the Assistant	Rc.No.163/Mines/2020,
	Director, dept. of Geology and Mining with date	date:07.04.2022.
20	500m duster letter issued by the	Rc.No.163/Mines/2020,
	Assistant Director, Dept. of Geology and Mining with date	date:07.04.2022.
21	VAO certificate regarding habitations in 300m radius	30.05.2022.

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22	Project Cost (excluding EMP)	Rs.29,22,000/-
23	EMP cost	Capital cost: Rs.19,70,300/-
		Recurring cost: Rs.6,55,740/-

Based on the presentation and documents furnished by the project proponent, after detailed deliberations. SEAC considering the safety aspects, decided to recommend the proposal for the grant of Environmental Clearance for the restricted quantity of 73,250 m<sup>3</sup> of Rough Stone & 11,988m<sup>3</sup> of Gravel for an ultimate depth of 32m Below ground level with annual peak production of 15,300m<sup>3</sup> of rough stone, 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.
- The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 before obtaining the CTO.
- The mine manager and other statutory competent persons such as blaster (or)
  mine male shall be appointed as per the provisions of Mines Act 1952 and
  Metalliferous Mines Regulations. 1961 before the obtaining the CTO from the
  DEE/TNPCB.
- 4. The proponent shall maintain 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.
- 5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.

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- The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
- No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
- The PP shall use the jack hammer drill machine litted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 9. 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.
- 10. 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.
- 11. Since few structures/sheds are located within 300 m, the PP shall obtain necessary permission from the Regional inspector of Mines, (DMS), Chennai Region within immediately after the execution of lease before the commencement of quarrying operations to carry out the scientific studies on 'Design of Suitable Controlled blast parameters for reducing the cumulative impact of blast-induced grounds caused due to operation of the Quarry', by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennal-CEG Campus, etc. shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compilance.
- 12. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.

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- 13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
- 14. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
- 15. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM. IITs, NIT-Dept of Mining Engs, Surathkal, Anna University Chennal-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB. AD/Mines-DGM and DMS. Chennal as a part of Environmental Compilance without any deviation.
- 16. The PP shall obtain necessary procedural permissions immediately after the execution of the lease from the competent authorities for carrying out the amalgamation with the neighbouring mines for the safety reasons.
- 17. 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.
- 17. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government High School, Andkpalayam, Coimbatore District for the activities as committed, before obtaining CTO from TNPCB.

Agenda No: 359-12

(File No: 9390/2022)

Proposed Rough Stone & Gravet quarry Lease over an extent of 1.80.0 Ha at S.F.No. 141/2 in Kanniyam Village, Tindivanam Takuk, Vikuppuram District, Tamii Nadu by Thiru.K.Chandirasekar – For Environmental Clearance (SIA/TN/MIN/282563/2022 dated an or once).

07.07.2022)

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## SEAC noted the following:

- The Project Proponent, Thiru.K.Chandirasekar has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 1.80.0 Ha at S.F.No. 141/2 in Kanniyam Village, Tindivanam Taluk, Viluppuram District, Tamil Nadu.
- The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- The salient features of the project are as follows:

. 5 		Principal Administration of the Control of the Cont
1	Name of the Owner/Firm	K. Chandirasekar,
		S/o, Krishnamoorthi,
		No. 287, Mettu Street.
		Eraiyur Village, Vanur Taluk, Vilupuram District – 604 304.
2	Type of quarrying (Savudu/Rough	Rough Stone and Gravel Quarry
_	Stone/Sand/Granite)	Rough stone and Graver Quarry
3	S.F.No. Of the quarry site	141/2
4	Village in which situated	Kanniyam
5	Taluk in which situated	Tindivanam
6	District in which situated	Villopuram
7	Extent of quarry (in hal)	1.80.0Ha
8	Latitude & Longitude of all corners of	12°04'33.30"N to 12°04'39.65"N
	the quarry site	79°38'35.22"E to 79°38'40.64"E
9	Topo Sheet No.	57 - P/12
10	Type of mining	Opencast Mechanized Mining
<u></u>		Method ·
l II	Period of quarrying proposed	10 years
12	Production (Quantity in m²)	2,19,880m³ of Rough stone.
		38,556m² of Weathered Gravel and
13	Death of greening	13.816 m³ of Gravel
13	Depth of quarrying	44m below ground level.
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14	Depth of water table	53m-48m below ground tevel
15	Man Power requirement per day:	18 Nos.
16	Water requirement:	2.8 KLD
	4. Drinking & domestic purposes	0.5 KLD
	5. Dust suppression	1.5 KLD
	6. Green Bett	0.8 KLD
17	Power requirement	No details furnished
18	Precise area communication approved	Rc.No.A/G&M/272/2020,
	by the Assistant Director (i/c), Dept. of	date:28.02.2022.
	Geology & Mining with date	
19	Mining Plan approved by the Assistant	Rc.No.B/G&M/272/2020.
	Director(i/c), Dept. of Geology and Mining with date	date:09.05.2022.
20	500m cluster letter issued by the	Rc.No.B/G&M/272/2020,
	Deputy Director, Dept. of Geology	date:30.06.2022.
	and Mining with date	,
21	VAO certificate regarding hebitations	11.03.2022.
	in 300m radius	
22	Project Cost (excluding EMP)	Rs.38.79.000/-
23	EMP cost	Capital cost: Rs.23.74,000/-
	1	Recurring cost: Rs.16,76,762/-

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC considering the safety aspects, decided to recommend the proposal for the grant of Environmental Clearance for the restricted quantity of 2.16.370 m² of Rough Stone, 38,556m² of Weathered Gravel and 13,816 m² of Gravel for an ultimate depth of 39m Below ground level with annual peak production of 22,845m² of rough stone, 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 tife including production value as fall 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€ dated 12.04.2022.

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- The PP shall Inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennal Region and get the necessary statutory permission under the MMR 1961 before obtaining the CTO.
- The mine manager and other statutory competent persons such as blaster (or)
  mine mate shall be appointed as per the provisions of Mines Act 1952 and
  Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the
  DEE/TNPCB.
- 4. The proponent shall maintain 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.
- 5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
- The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
- No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed 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.
- 9. 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.
- 10. The PP shall ensure that the biasting 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

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- the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
- 11. Within six months from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennal-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA. MoEF, TNPCB, and DMS, Chennal as a part of Environmental Compliance.
- 12. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
- 13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennal.
- 14. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
- 15. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, 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.
- 16. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.

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HAIRMAN SEAC- PN 17. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government School, Kanniyam, Villupuram District for the activities as committed, before obtaining CTO from TNPCB.

Agenda No: 359-13 (File No: 9397/2022)

Proposed Rough Stone & Gravel quarry Lease over an extent of 0.89.0 Ha at S.F.No. 66/2 (Part) in Thirumalayampalayam North Village, Madukkaral Taluk, Colmbatore District, Tamil Nadu by Mr.S.Rathina Velusamy – For Environmental Clearance (SIA/TN/MIN/283830/2022 dated.16.07.2022)

The proposal is placed in this 359\* SEAC meeting held on 02.03.2023. The details of the project furnished by the proponent are given in the website (parivesh,nic,in).

## SEAC noted the following:

- The Project Proponent, Mr.S.Rathina Velusamy has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 0.89.0 Ha at S.F.No. 66/2 (Part) in Thirumalayampalayam North Village, Madukkarai Taluk, Colmbatore District, Tamil Nadu.
- 2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. The salient features of the project are as follows:

1	Name of the Owner/Firm	Mr.5. Rathina Velusamy,
		S/o. K. Subramaniyam,
		No.16/237. Iyyappan Kovil Street,
		Madukkarai Taluk,
		, Coimbatore District - 641 105.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel Quarry
3	S.F.No. Of the quarry site	66/2(part)
4	Village in which situated	Thirumalayampalayam North

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5	Taluk in which situated	Madukkarai
6	District in which situated	Coimbatore
7	Extent of quarry (in ha.)	0.89.0Ha
8	Latitude & Longitude of all corners of the quarry site	10°52'4.94"N to 10°52'8.07"N 76°55'11.09"E to 76°55'16.08"E
9	Topo Sheet No.	58-B/13
10	Type of mining	Opencast Mining Method
11	Period of quarrying proposed	5 years
12	Production (Quantity in m³)	69.898m <sup>3</sup> of Rough stone & 6324m <sup>3</sup> of gravel
13	Depth of quarrying	20m Below ground level
14	Depth of water table	55m – 50m
15	Man Power requirement per day:	14 Nos
16	Water requirement:	3.0 KLD
	7. Drinking water	0.3 KLD
		1
	8. Utilized water	0.7 KLD
	9. Dust suppression	1.0 KLD
L	10. Green Belt	1.0 KLD
17	Power requirement	56970 litres of HSD for the entire project life
18	Precise area communication approved	Rc.No.170/Mines/2022
	by the Assistant Director, Dept. of G&M with date	dated:04.07.2022.
19	Mining Plan approved by the Assistant	Rc.No.170/Mines/2022
	Director, Dept. of Geology and Mining with date	dated:07.07.2022.
20	500m duster letter issued by the	Rc.No.170/Mines/2022
	Assistant Director, dept. of Geology and Mining with date	date:07.07.2022.
21	VAO certificate regarding habitations in 300m radius	Endosed: Nil dated
22	Project Cost (excluding EMP)	Rs.32,47,900/-
23	EMP cost	Capital cost: Rs.18,87.067/-
		Recurring cost: Rs.12,97,280/-

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CHAIRMAN SEAC: TN - Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 69,898m<sup>3</sup> of Rough stone & 6324m<sup>3</sup> of gravel for an ultimate depth of 20m Below ground level with annual peak production of 17,220m<sup>3</sup> of rough stone, 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 5.0.
  1807€ dated 12.04.2022.
- The PP shall inform the notice of opening of the quarry to the Director of Mines
   Safety (DMS)/Chennal Region and get the necessary statutory permission under
   the MMR 1961 before obtaining the CTO.
- 3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
- 4. The proponent shall maintain the '53 (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.
- 5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the plt leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
- 6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.

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- No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed 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.
- 9. 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.
- 10. 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.
- 11. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies in coordination with the other quarry owners located in the cluster domain on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in the duster by adopting appropriate controlled blasting techniques', by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEC Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennal as a part of Environmental Compliance.
- 12. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
- 13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in/Chennai.

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SEAC -TN

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- 14. The Project Proponent shall send a copy of the dearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
- 15. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, ITT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennal-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MOEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
- 16. The PP shall furnish the details on the transportation route for their vehicles. movement to the concerned DEE/TNPCB before obtaining the CTO.
- 17. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.RI dated: 30.09,2020 and 20.10.2020 the proponent shall adhere EMP furnished.
- 18. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for two Government Schools for the activities as committed, before obtaining CTO from TNPCB.

Agenda No: 359-14

(File No: 9434/2022)

Proposed Rough Stone quarry Lease over an extent of 2,00.0 Ha at 5.F.No. 169 (part) in Jinjupalli Village, Krishnagiri Tahuk, Krishnagiri District, Tamil Nadu by Tmt.V.Jayaprabha For Environmental Clearance (\$IA/TN/MIN/286168/2022 dated 13.08.2022)

The proposal is placed in this 359th SEAC meeting held on 02.03.2023. The details of the project furnished by the proponent are given in the website (partyesh.nic.in).

## SEAC noted the following:

- 1. The Project Proponent. Tmt.V.Jayaprabha has applied for Environmental Clearance for the Proposed Rough Stone quarry Lease over an extent of 2.00,0 Ha at S.F.No. 169 (part) in Jinjupalli Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
- The project/activity is covered under Category "B2" of Item I(a) "Mining Projects".

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of the Schedule to the EIA Notification, 2006.

3. The salient features of the project are as follows:

V.	manda grip megan je ne	Nan Someth
$\mathcal{L}^{(2)}$		(1)
T	Name of the Owner/Firm	Tmt. V. Jayapraba
l		W/o. Murugan,
l		D.No.2/226, Thalavaipalli Village,
l		Samanthamalai Post,
l		Krishnagiri Tatuk,
2	Type of quarrying (Savudu/Rough	Krishnagiri District - 635 121.  Rough Stone Quarry
-	Stone/Sand/Granite)	Koogii Xore Quarry
3	S.F No. Of the quarry site with area	169(part)
	break-up	1 (5 )
4	Village in which situated	Jinjupalli
5	Taluk in which situated	Krishnagiri
6	District in which situated	Krishnagtri
7	Extent of quarry (in ha.)	2.00.0Ha
8	Latitude & Longitude of all corners of	12°33'04.28"N to 12*32'56.11"N
	the quarry site	78°09'11.09'E to 78°09'12.60'E
9	Topo Sheet No.	57-L/2
10	Type of mining	Opencast Semi Mechanized Mining
11	Lease Period of quarrying granted	10 years
12	Production (Quantity in m³)	3,04,425m) of Rough stone &
		26.159m³ of top soil
13	Depth of quarrying	36.5m below ground level
14	Depth of water table	62m below ground level
15	Man Power requirement per day:	18 Nos.
16	Water requirement:	5.0 KLD
	11. Drinking & domestic purposes	1.0 KLD
	12. Dust suppression	3.0 KLD
	13. Green Belt	1,0 KLD
17	Power requirement	2,47,896 litres of HSD for the entire
l	<u></u>	project life

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18	Precise area communication approved by the District Collector with date	Rc.No.529/2022/Mines dated:21.04.2022
19	Mining Plan approved by the Deputy Director, Dept. of Geology and Mining with date	Rc.No.529/2022/Mines, Dated:10.06.2022.
20	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	Roc.No.529/2022/Mines Dated:10.06.2022
21	VAO certificate regarding habitations in 300m radius	Letter dated: 18,06,2022.
22	Project Cost (excluding EMP)	Rs. 2,87,70,000/-
23	ЕМР соя	Capital cost: Rs.10.05 Lakhs
L_		Recurring cost: Rs.15.46 Lakhs

Based on the presentation and documents furnished by the project proponent, after detailed deliberations. SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 3,04,425m² of Rough stone & 26,159m² of top soil for an ultimate depth of 36.5m Below ground level with annual peak production of 55,125m² of rough stone, 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€ dated 12,04,2022.
- The PP shall inform the notice of opening of the quarry to the Director of Mines
  Safety (DMS)/Chennai Region and get the necessary statutory permission under
  the MMR 1961 before obtaining the CTO.
- 3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations. 1961 before the obtaining the CTO from the DEE/TNPCB.

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- 4. The proponent shall maintain 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.
- 5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
- The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
- No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed querry.
- 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.
- 9. 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.
- 10. 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 including the village road situated closely.
- 11. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies in coordination with the other quarry owners located in the cluster domain on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in the cluster by adopting appropriate controlled blasting techniques', by involving any of the reputed Research and Academic

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CHAIRNAN SEACATION Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS. Chennai as a part of Environmental Compliance.

- 12. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
- 13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
- 14. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
- 15. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennal-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennal as a part of Environmental Compliance..
- 16. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
- 17. As accepted by the Project proponent the CER cost is Rs. 6 lakhs and the amount shall be spent for the Government (RMSA) Higher Secondary School, Veppanapallifor the activities as committed, before obtaining CTO from TNPCB.

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CHAI SEAC Agenda No: 359-15 (File No: 6567/2021)

Proposed Rough Stone quarry lease over an extent of 4.94.5Ha at S.F.No. 170(Part), Kunnavakkam Village, Thirukazhukundram Taluk, Chengelpattu District, Tamil Nadu by M/s, Salem Mines & Aggregates – For Environmental Clearance. (SIA/TN/MIN/81966/2021, dated:08.08.2022)

The proposal was placed in 359<sup>th</sup> meeting of SEAC held on 02.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

# The SEAC noted the following:

- The Proponent. M/s. Salem Mines & Aggregates has applied seeking Environmental Clearance for the proposed Rough Stone quarty lease over an extent of 4.94.5Ha at S.F.No. 170(Part), Kunnavakkam Village, Thirukazhukundram Taluk, Chengalpattu District, Tamil Nadu.
- The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 9.82,419m? of rough stone & 28080m² of Topsoil with an ultimate depth of mining is 41m(11m above ground level + 30m below ground level )[as per approved ToR]. The annual peak production is 228180m² of Rough Stone (4<sup>th</sup> year), 28080m² of Topsoil (1st year).
- ToR issued vide letter No SEIAA-TN/F.No.8567/SEAC/TOR-1029/2021 dated 26.08.2021.
- 5. Public hearing conducted on Dated: 05.05.2022.

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1	Name of the Owner/Firm	M/s.	Salem	Mines	£	Aggregates
		Thiru.	R.Gopal	(Partner)	ı	
1		No.0	9, Nagara	athinam	Nega	ar Extension.
1		Thiru	neermala	i Road		
		West	Tambara	ım, Chen	nai-é	500045.

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2	Type of quarrying	Rough stone
3	S.F No. Of the quarry site with area	170(part)
	break-up	:
4	Village in which situated	Kunnavakkam
5	Taluk in which situated	Thirukazhukundram
6	District in which situated	Chengalpattu
7	Extent of quarry (in ha.)	4.94.5Ha
8	Period of quarrying proposed	5 years
9	Type of mining	Opencest semi Mechanized Mining
10	Production (Quantity in m³)	As per the mining plan the lease period
		is 5 years. The mining plan is for the
		period of five years & the production
		should not exceed 982419m² of rough
İ		stone & 28080m³ of Topsoil with an
		ultimate depth of mining is 41m (11m
İ		above ground level + 30m below
		ground level )(as per approved ToR).
ļ		The annual peak production is 228180
		m³ of Rough Stone (4th year) and 28080
		m³ of Topsoil (1st year).
11	Latitude & Longitude of all corners	12"33'30" N to 12"33'41" N
	of the quarry site	80°04'17"E to 80°04'26"E
12	Top Sheer No.	66 D/02
13	Man Power requirement per day:	32 Empaiyees
14	Precise area communication	Na.Ka.No.2646/Kanimam/2020 dated:
	approved by the District Collector.	04.05.2020
	with date	
15	Mining Plan approved by the	Rc.No.2646/Kanimam/2020 dated:
	Deputy Director, Department of	08.06.2020
	Geology and Mining with date	
	<del></del>	· · · · · · · · · · · · · · · · · · ·

MEMBER SECRETARY SEAC-TN



16	AD mines 500m cluster letter by the	Rc. No.2646/Kantmam/2020
	Deputy Director, Department of	dated: 08.06.2020
	Geology and Mining with date.	
17	Water requirement:	4.0 kLD
	7. Ortnking & domestic purposes	2.0 kLD
	8. Dust suppression & Green	2.0 ktD
•	Belt (in KLD)	
18	Power requirement	• • • • • • • • • • • • • • • • • • • •
	e. Domestic Purpose	TNEB
	f. Industrial Purpose	
19	Depth of quarrying	11m Above Ground Level & 30m Below
		Ground Level
20	Depth of water table	58m
21	Whether any habitation within	No
	300m distance	
22	Project Cost	Rs. 810.50 Lakhs
23	EMP cost	Rs. 165.94 Lakhs
24	CER Cost	Rs. 16.32 Lakhs
25	VAO letter dated	Letter dated: 19.04.2021
26	ToR issued	ToR issued vide Lr.No.SEIAA-
		TN/F.No.8567/SEAC/TOR1029/2021
		dated 26.08.2021.
27	Public Hearing Details	Public hearing conducted on Dated:
		05.05.2022.
		1

As suggested by the committee,—the revised production Plan & section after leaving minimum safety distance of 150m for the structures in the south western side and maintaining more than the minimum desired width of 12m in the pit bottom in mining plan is given as below.

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CHAIRMAN SEAC-JN

### Revised Production Details

			YEARLY PROD	CTION (m²)			
YEAR	PLAN 66m(11m above ground level and 41m(11		PLAN RESERVES 66m(11m above ground level and 41m(11m above ground level				
	ROUGHSTONE (m²)	TOP 300L (#1 <sup>3</sup> )	ROUGHSTONE	TOP SOIL	1 (a.19) \$15.7 		
ı	226970	28080	226970	25080			
•	226694	-	226694	-	1:10		
MI	223700		223700				
ſ¥	228180	-	228180	-	to the second of the		
γ	229135	•	76875	•	J22080		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 8,72,602m² of Rough Stone and 23,600m² of Topsoli not exceeding the annual peak production of 174722m² of Rough Stone and 23,600m² of Top soil with maintaining an ultimate pit depth of 56m BGL (11m above ground level + 45m below ground level)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
  \$.O. 1807(E) dated 12.04.2022.
- The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation.

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- as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations. 1961.
- The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
- 4. The proponent shall construct the '53 (or) G2' type of fending all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction, shall install fencing and Garland drain before obtaining the CTO from the TNPCB,
- Since the quarry is located in the duster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules. 1955 for the health and welfare of the persons employed therein.
- 7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
- 8. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
- 9. However, the PP shall carry out the scientific studies to assess the slope stability of the working benches and proposed quarry wall within six months of commencement of quarrying operation, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennal-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MOREL TNPCB.

MEMBERSECRETARY SEAC .TN

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

- 10. As a part of EC Compliance, the PP shall carry out the tree plantation (2000 nos) to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
- No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarties.
- 12. The PP shall carry out maximum of two rounds of controlled blast only perday, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
- 13. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
- 14. The PP shall use the jack hammer drill machine litted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 15. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 16. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations

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- situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
- 17. Since few structures are existing within 300 m, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to quarrying operation by adopting appropriate controlled blasting techniques', by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
- 18. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
- 19. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM. IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennal-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennal etc shall be carried out within one year after the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPC8, and DMS. Chennal as a part of Environmental Compliance.
- 20. The Project Proponent shall ensure that the funds earmarked for environmental profection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

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- 21. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
- 22.As per the MoEF6. CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
- 23. As accepted by the Project proponent the CER cost is Rs.16.32.000 (akhs and the amount shall be spent for the Govt School, Sodlyambakkam as committed, before obtaining CTO from TNPCB.

Agenda No: 359-16 (File No: 9246/2022)

Proposed Rough Stone and Gravel quarry lease over an extent of 1.00.0 Ha at S.F.Nos.133/IA2 (P) & 133/IB (P) of Thensangampalayam Village, Analmalai Taluk, Coimbatore District, Tamil Nadu by Thiru. N.Mahalingam— For Environmental Clearance. (SIA/TN/MIN/270509/2022 dated:09.05.2022)

Earlier, this proposal was placed in 301° Meeting of SEAC held on 06.08.2022. 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.Mahalingam has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 1.00.0 Ha at S.F.Nos.133/1A2 (P) & 133/1B (P) of Thensangampalayam Village. Anaimala) Taluk, Coimbatore District, Tamil Nadu.
- The project/activity is covered under Category "82" 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 total quantity of recoverable should not exceed 64,510 cu.m of Rough Stone and 13,172 cu.m of Gravel with an ultimate depth of mining is 17m (BGL)(2m Gravel + 15m Rough Stone). The annual peak production as per mining plan is 13,180 cu.m of rough stone (3<sup>rd</sup> year).
  & 5,624 cu.m of gravel (2<sup>rd</sup> year).

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CHAIR**K**( SEAC-1 The PP has made the presentation and furnished the details in the Meeting. Based on the presentation & details furnished by the PP the SEAC decided to call for the following details.

 Since the Anamalai Tiger Reserve is located within 10km & its ESZ is yet to be notified, the PP shall obtain and submit NBWL Clearance.

Again the proposal was placed in 316th Meeting of SEAC held on 30.09.2022. The Committee noted that the PP was absent for the meeting and hence the PP shall furnish the reason for the same.

Now the proposal was placed in this 359<sup>th</sup> Meeting of SEAC held on 02.03.2023. The Committee noted the PP has not submitted NBWL Clearance as stated in 301<sup>th</sup> Meeting of SEAC held on 06.08.2022. Hence SEAC decided that the PP shall furnish NBWL Clearance.

Agenda No: 359-17 (file No: 9377/2022)

Proposed Rough Stone quarry lease area over an extent of 0.81.0 Ha at S.F.No. 415/38, of Vellarivelli Villege, Edappedi Taluk, Selem District, Tamil Nadu by Thiru. K. Ravisuthan- For Environmental Clearance. (SIA/TN/MiN/280987/2022, dated: 01.07.2022).

The proposal was placed in 314th Meeting of SEAC held on 23,09,2022. 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. K. Ravisuthan has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 0.81.0 Ha at 5.F.Nos. 415/3B, at Vellarivelli Village, Edappadi Taluk, Salem District, Tamil Nadu.
- The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and documents (urnished by the project propohent, SEAC decided to obtain the following details.

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CHAIRMAN SEAC-TIN

- The project proponent shall furnish certified compliance report.
- (ii) The proponent shall enumerate on the details of the structures located within 100m, 200m, 300m radius from the proposed mine lease area indicating the type of structure/building, usage/purposes of such building commercial/industrial/residential/farm house/Govt. building such as Substation, occupants of such buildings/structures, ownership of the buildings/structures-whether it belongs to the PP (or) not, etc.
- (iii) The proponent shall construct the '\$3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit as recommended in the DGMS Circular, 11/1959 and shall furnish the details of the photographs/map showing the same and the tree plantation completion work as committed earlier.

Now the proposal was placed in this 359° Meeting of SEAC held on 02.03.2023. The committee noted that the EIA co-ordinator has failed to furnish the details of the structures located within 100m, 200m, 300m radius from the proposed mine lease area indicating the type of structure/building, usage/purposes of such building – commercial/industrial/residential/farm house/Govt, building such as Sub-station, occupants of such buildings/structures, ownership of the buildings/structures-whether it belongs to the PP (or) not. Further, the committee has noted that there are 57 houses, 3 temples and 12 cattle sheds are existing around 300m radius of the project site. Hence SEAC decided not to recommend the proposal.

Agenda No: 359-18 (File No: 9435/2022)

Proposed Rough Stone quarry lease over an extent of 1.20.00 Ha at S.F.No. 197/2(Part), JinjupalliVillage, krishnagiri Taluk, krishnagiri District, Tamii Nadu by Thiru. C. Murugesan- For Environmental Clearance. (SIA/TN/MIN/286200/2022, dated:13.08.2022)

The proposal was placed in this 359<sup>th</sup> meeting of SEAC held on 02.03.2023. The details of the project furnished by the proponent are given in the website (partyesh.nic.in).

## The SEAC noted the following:

 The Proponent, Thiru, C. Murugesan has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 1.20.00 Ha at

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- S.F.No. 197/2(Part). Jinjupalli Village, krishnagiri Taluk, krishnagiri District, Tamil Nadu.
- The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. As per the mining plan the lease period is 10 years. The mining plan is for the period of ten years & the production should not exceed 1.57.770m³ of Rough stone & 18,288m³ of Topsoil (Gravel) with an ultimate depth of mining is 32m (2mAGL + 30mBGL). The annual peak production is 23,660m³ of Rough Stone (6\*year) and 6624m³ of Topsoil (1\*year).

gentalisation Constitution		Company Stratistics Confidence
1	Name of the Owner/Firm	Thiru.C.Murugesan.
		S/o.Chinnappan.
•		D.No.3/132.Thippanapalli village,
		Thippanapalii post,
		krishnagiri Taluk,
		krishnagiri District-635115.
2	Type of quarrying	Rough stone
3	S.F.No. of the quarry site with area break-up	197/2(PART)
4	Village in which situated	Jinjupalli
5	Taluk in which situated	krishnagiri
- 6	District in which situated	krishnagiri
7	Extent of quarry (in ha.)	1.20.00 Ha
8	Period of quarrying proposed	10 years
9	Type of mining	Opencast semi Mechanized Mining
10	Production (Quantity in m³)	As per the mining plan the lease period
		is 10 years. The mining plan is for the
		period of ten years & the production
İ		should not exceed 1,57,770m3 of
		Rough stone & 18,288m <sup>2</sup> of Topsoil
		(Gravel) with an ultimate depth of

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	<u> </u>	mining is 32m (2m AGL+30m8GL).
		The annual peak production is
		23,660m³ of Rough Stone (6th year)
		and 6624m³ of Topsoil (1º year).
11	Latitude & Longitude of all corners of the	12°33'34.20" N to 12°33'38.78" N
	quarry site	78°09'17.20"E to 78°09'21.55"E
12	Top Sheet No.	571/2,3
13	Man Power requirement per day:	18 Empolyees
14	Precise area communication approved by the	Na.Ka.No.530/2022/Kanimam,dated:
	District Collector, with date	21.04.2022
15	Mining Plan approved by the Deputy Director,	Rc.No.530/2022/Mines dated:
	Department of Geology and Mining with date	10.06.2022
16	AD mines 500m cluster letter by the Deputy	Rc.No.530/2022/Mines,dated:
	Director, Department of Geology and Mining	10.06.2022
	with date.	
17	Water requirement:	5.0 KLD
	Drinking & domestic purposes	1.0 KLD
1	2 Out manuallan	
	2. Dust suppression	3.0 KLD
	Creen Belt (in KLD)	1.0 KLD
18		
18	3. Green Belt (in KLD)	
18	3. Green Belt (in KLD)  Power requirement	1.0 KLD
18	3. Green Belt (in KLD)  Power requirement  a. Domestic Purpose	1.0 KLD TNEB
18	3. Green Belt (in KLD)  Power requirement  a. Domestic Purpose	1.0 KLD TNEB 176298 Litres of HSD for the entire
	3. Green Belt (in KLD)  Power requirement  a. Domestic Purpose  b. Industrial Purpose	1.0 KLD TNEB 176298 Litres of HSD for the entire period of tife
19	3. Green Belt (in KLD)  Power requirement  a. Domestic Purpose  b. Industrial Purpose  Depth of quarrying	1.0 KLD TNEB 176298 Litres of HSD for the entire period of tife 23m BGL
19	3. Green Belt (in KLD)  Power requirement  a. Domestic Purpose  b. Industrial Purpose  Depth of quarrying  Depth of water table	1.0 KLD TNEB 176298 Litres of HSD for the entire period of tife 23m BGL 62m
19 20 21	3. Green Belt (in KLD)  Power requirement a. Domestic Purpose b. Industrial Purpose  Depth of quarrying  Depth of water table  Whether any habitation within 300m distance	TNEB 176298 Litres of HSD for the entire period of life 23m BGL 62m
19 20 21 22	3. Green Belt (in KLD)  Power requirement a. Domestic Purpose b. Industrial Purpose  Depth of quarrying  Depth of water table  Whether any habitation within 300m distance  Project Cost	TNEB 176298 Litres of HSD for the entire period of life 23m BGL 62m No Rs. 1,72,30,000
19 20 21 22 23	3. Green Belt (in KLD)  Power requirement a. Domestic Purpose b. Industrial Purpose  Depth of quarrying  Depth of water table  Whether any habitation within 300m distance  Project Cost  EMP cost	TNEB 176298 Litres of HSD for the entire period of life 23m BGL 62m No Rs. 1,72,30,000 Rs. 164.11 Lakhs

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CHAIRMAN SEAGUTN In approved Mine plan for  $7m \times 7m$  bench parameters are given. As suggested by the committee, the EIA Co-ordinator has revised the Plan & section for  $5m \times 5m$  bench parameters and maintained desired pit bottom width,

	HENCH PARAMETERS								
	AS PER	APPROVED.	MINE FLAN	REVISED APTER SEAC MEETING					
YEAR	Height IN M Width IN M		Depth BY M						
15	7	5	23m (2m above and 21m bgl)						
5-10	7	3	+ 21m bgi						
Total			44 (2m above end 42m bgl)						

REVISED PRODUCTION DETAILS

YEAR	AS PER APPROVI	DMINING PLAN	ODACED, AC DCD (I		
	ROLKSHITONE		CODUCTION (m²)  REVISED AS PER SEAC MEETING		
	(M)	TOP SOIL (m)	ROUGHSTONE (m²)	TOP SOIL (m²)	
ı	22,113	6624	15390	6624	
II	22,260	6480	14550	6490	
Ш	22.442	5184	16205	5184	
TV	19,665	-	17365		
ν	20,160	_	19695		
٧ī	24.808	+	23660	-	
VII	19264	-	19035	-	
VIII 2	5004		5025	-	
IX 2	4024	,	14910	-	
X I	7629		11935		

The revised details of Year wise, bench wise, mineable reserves after leaving necessary bottom width,

Depth of 32m (2m above and 30m bal) & Sm x Sm bench parameters

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	¥	LAKKE	if beveal	MESIT N	ID PRICE!	CTION ()=	- (Pre Yeart)	
704	Section		1	Wath m (m)	Depth In (m)	Volume In (m3)	Minate Reserves in m3 (100%)	Top Sol (Gravel) in m3
	$\vdash$	-		45	7			-
-Mar	XY-AB	-	玉	€	5	11025	11605	
		-	. #	10	7			1544
		•	9	_ 97_	3	8	444	
M-Year	21-00	-	, a	TO.	1			8
	F   W	H	Ø	57	5	7650	1490	
	KY-C03	1	×	104	2			112
N-Year		-	В	97	5	.)048	1235	
		=	10	<b>14</b> 0q	3	775	FORG	
	pr.ag	•	30	ង	5	7960	7950	
III-14644		I	1	149	- 5	4040	4040	
			<b>B</b>	43		#	NA.	
V-Year	NY-00	48	数	307	5	page.	19665	
		1	-					

	YEARWISE DEVELOPMENT AND PRODUCTION (2nd - Five Years)							
Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Volume in (#13)	Minsbie Reserves in m3 (100%)	
VI-Year	KY-CD	~	<u> 22                                  </u>	. 91	\$	29660	23660	
さする	FY-CD	*	47	8)	5	1HOUS.	15055	
¥IS-Year	XY-AE	XY-AB	*	20	13	5	<b>±900</b>	3900
			APAG	νi	15	13	5.	1725
R(-Year	XII-O	vi	¥	Л	. 5	34910	1400	
X-Year	XY-AII	WIL	10	U	5	654	450	
V- H241	XY-CD	WI:	37	6	5	11285	11285	
		1	79645	74666				

Based on the presentation and documents furnished by the project proponent. SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 1.57,770m² of Rough Stone and 18,288m² of Topsoll not exceeding the annual peak production of 23,660m² of Rough Stone (6° year) and 6624m³ of Topsoil (1° year) with maintaining an ultimate pit depth of 32m BGL (2m AGL+30mBGL)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 Clearence 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
5.0. [807(E) dated 12.04.2022.

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- The mine manager and other statutory competent persons such as blaster (or)
  mine mate shall be appointed before the commencement of mining operation
  as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations,
  1961.
- The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
- 4. The proponent shall construct the 'S3 (or) G2' type of fending all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 5. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction, shall install fencing and Carland drain before obtaining the CTO from the TNPCS.
- 6. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
- 7. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the development of the benches from top to downwards systematically keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCS.
- 8. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the working quarry touches 30 m agi/bgl (or) after the completion of 2 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, UT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennal-CEG Campus, etc. A copy of such scientific study report shall be submitted to

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- the SEIAA, MoEF, TNPCS, AD/Mines-DGM and DMS, Chennal as a part of Environmental Compliance without any deviation.
- 9. As a part of EC Compliance, the PP shall carry out the tree plantation (2000) nos) to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
- 10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarties.
- 11. The PP shall carry out maximum of two rounds of controlled blast only perday, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce. the environmental impacts effectively.
- 12. 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.
- 13. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 14. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations. situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
- 15. Since few structures/sheds are existing within 300 m, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to, quarrying

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operation by adopting appropriate controlled blasting techniques', by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS. Chennai as a part of Environmental Compliance.

- 16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
- 17. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennal-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS. Chennai as a part of Environmental Compliance.
- 18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
- 19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
- 20.As per the MoEF& CC Office Memorandum F.No. 22-65/2017-1A.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
- 21. As accepted by the Project proponent the CER cost is Rs.5,00,000 lakhs and the amount shall be spent for the Covt School, Kummanur Village as sommitted, before obtaining CTO from TNPCB.

MEMBER SECRETARY SEAC -TN

CHAIRMAN?

Agenda No.359-19 (File No: 7378/2020)

Proposed Rough stone quarry lease over an extent of 2,00.0 Ha in S.F.No.705(part-II)

Kottalyur Village, Srivilliputtur Taluk Virudhunagar District, Tamil Nadu by Thinu.

M.Krishnakumar - For Environmental Clearance (SIA/TN/MIN/134892/2020,dated,t 03.01.2020)

Earlier, this proposal was placed in 161\*SEAC Meeting held on 26.06.2020, 199\*SEAC held on 09.02.2021 & 241\* SEA meeting held on 2.11.2021. The details of the project furnished by the proponent are given on the website (Parivesh.nic.in).

The SEAC noted the following:

- The Proponent. Thiru.M.Krishnakumar, has applied for Environmental Clearance for the proposed rough stone quarry lease over an extent of 2.00.0 Ha In S.F.No. 705 (Part-II) Kottaiyur Village. Srivilliputtur Taluk, Virudhunagar District, Tamil Nadu.
- The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
- 3. The production for the five years states that the total quantity of recoverable as 3,25,120 cu.m of rough stone and the ultimate depth of mining is 40m (25 m above ground level and 15 m below ground level).

	April 19 Ship Fortuna (1994)		
1	Name of the Owner/Firm	;	Thiru. M. Krishnakumar, S/o. Sri.E.Muthusamy, D.No: SF4, G Block, Woraiyur Housing Unit, Salai Road, Trichirapalli District - 620 003.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	;	Rough Stone
3	5.f No. of the quarry site with area break-up	Ξ	705 (Part-II)
4	Village in which situated	-	Kottaiyur
5_	Taluk in which situated	:	Srivilliputhur <u>C</u>

MEMBER SECRETARY SEAC -TN

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6 District in which situated : Virudhunagar 7 Extent of quarry (in ha.) : 2.00.0 Ha 8 Period of quarrying proposed : 5 Years 9 Type of mining : Opencast Mechanized Mining 10 Production (Quantity in m²) : 325120 cu.m of Rough Stone to depth of 40m (25m AGL+ 15m BG a period of 5 years and not excee annual peak production of 65690 m Rough stone 11 Latitude & Longitude of all corners of the quarry site : 09°39°25.5°N to 09°39°31.3°N 77'41'14.8°E to 77°41'20.60°E 12 Topo Sheet No. : 58-G/10 13 Man Power requirement per day: 11 Nos 14 Precise area communication approved by District Collector with date : 28.03.2018 15 Mining Plan approved by Deputy : Roc. No: KVI/250/2018, dated: 28.03.2018 16 Water requirement: : 2.5 KLD	L) In ding
8 Period of quarrying proposed : 5 Years 9 Type of mining : Opencast Mechanized Mining 10 Production (Quantity in m³) : 325120 cu.m of Rough Stone to depth of 40m (25m AGL+ 15m BG a period of 5 years and not excee annual peak production of 65690 m Rough stone 11 Latitude & Longitude of all corners of : 09°39′25.5°N to 09°39′31.3°N 77°41′14.8°E to 77°41′20.60°E 12 Topo Sheet No. : 58-G/10 13 Man Power requirement per day: : 11 Nos 14 Precise area communication approved : Na.Ka.K.V.1/250/2018, dated: by District Collector with date 28.03.2018 15 Mining Plan approved by Deputy : Roc. No: KVI/250/2018, dated: 28.03.2018 16 Water requirement: : 2.5 KLD 17 Power requirement 18 OKLD 19 OLIST Suppression (in KLD) 1.0 KLD 11 Green Belt (in KLD) 0.5 KLD	L) In ding
9 Type of mining : Opencast Mechanized Mining 10 Production (Quantity in m³) : 325120 cu.m of Rough Stone to depth of 40m (25m AGL+ 15m BG a period of 5 years and not exceed annual peak production of 65690 m Rough stone 11 Latitude & Longitude of all corners of the quarry site 12 Topo Sheet No. : 58-G/10 13 Man Power requirement per day: 11 Nos 14 Precise area communication approved Na.Ka.K.V.1/250/2018, dated: 28.03.2018 15 Mining Plan approved by Deputy Director. Department of Geology and Mining with date 16 Water requirement: 2.5 KLD 1.0 KLD 10. Dust Suppression (in KLD) 1.0 KLD 0.5 KLD 17 Power requirement	L) In ding
10 Production (Quantity in m³)  11 Latitude & Longitude of all corners of the quarry site  12 Topo Sheet No.  13 Man Power requirement per day:  14 Precise area communication approved by District Collector with date  15 Mining Plan approved by Deputy Director. Department of Geology and Mining with date  16 Water requirement:  17 Power requirement:  18 Water requirement:  19 Drinking water & domestic purposes (in KLD)  10 Dust Suppression (in KLD)  11 Over requirement  12 Power requirement  13 Man Power requirement  14 Precise area communication approved:  15 Mining Plan approved by Deputy:  16 Water requirement:  17 Power requirement  18 S25120 cu.m of Rough Stone to depth of 40m (25m AGL+ 15m BC approved excess approved to 99°39°31.3°N 7°41°14.8°E to 77°41°20.60°E  18 Nos  19 Na.Ka.K.V.1/250/2018, dated:  28.03.2018  19 Nos  10 Nos	L) In ding
the quarry site 77°41'14.8"E to 77°41'20.60"E  12 Topo Sheet No. : 58-G/10  13 Man Power requirement per day: : 11 Nos  14 Precise area communication approved : Na.Ka.K.V.1/250/2018, dated: 28.03.2018  15 Mining Plan approved by Deputy : Roc. No: KV1/250/2018, dated: 18.04.2018  16 Water requirement: : 2.5 KLD  9. Drinking water & domestic purposes (in KLD)  10. Dust Suppression (in KLD)  11. Green Belt (in KLD)  17 Power requirement	-
the quarry site 77°41'14.8"E to 77°41'20.60"E  12 Topo Sheet No. : 58-G/10  13 Man Power requirement per day: : 11 Nos  14 Precise area communication approved : Na.Ka.K.V.1/250/2018, dated: 28.03.2018  15 Mining Plan approved by Deputy : Roc. No: KV1/250/2018, dated: 18.04.2018  16 Water requirement: : 2.5 KLD  9. Drinking water & domestic purposes (in KLD)  10. Dust Suppression (in KLD)  11. Green Belt (in KLD)  17 Power requirement	· · · · ·
13 Man Power requirement per day: 14 Precise area communication approved: Na.Ka.K.V.1/250/2018, dated: 28.03.2018 15 Mining Plan approved by Deputy: Roc. No: KVI/250/2018, dated: 18.04.2018 16 Water requirement: 17 Power requirement: 18 Man Power requirement per day: 19 Na.Ka.K.V.1/250/2018, dated: 28.03.2018 19 Roc. No: KVI/250/2018, dated: 18.04.2018 10 Power requirement: 10 Na.Ka.K.V.1/250/2018, dated: 28.03.2018 10 No: KVI/250/2018, 0 No: KVI/250/2018 10 No: KVI/250/	
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by District Collector with date 28.03.2018  15 Mining Plan approved by Deputy Roc. No: KVI/250/2018, dated: 18.04.2018  Mining with date 18.04.2018  16 Water requirement: 2.5 KLD 1.0 KLD 10. Dust Suppression (in KLD) 1.0 KLD 11. Green Belt (in KLD) 0.5 KLD 17 Power requirement	
15 Mining Plan approved by Deputy : Roc. No: KV1/250/2018, dated: Director. Department of Geology and Mining with date  16 Water requirement: : 2.5 KLD  9. Drinking water & domestic purposes (in KLD)  10. Dust Suppression (in KLD)  11. Green Belt (in KLD)  12. Power requirement	
Director. Department of Geology and Mining with date  16 Water requirement:  9. Drinking water & domestic purposes (in KLD)  10. Dust Suppression (in KLD)  11. Green Belt (in KLD)  17 Power requirement	
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purposes (in KLD)  10. Dust Suppression (in KLD)  11. Green Belt (in KLD)  17. Power requirement	
10. Dust Suppression (in KLD) 11. Green Belt (in KLD) 12 Power requirement	
11. Green Belt (in KLD) 0.5 KLD 17 Power requirement	
17 Power requirement	
g. Domestic Purpose : TNEB	
h. Industrial Purpose 2,60,096 Liters of HSD	
18 Depth of quarrying : 40m (25m AGL + 15m BGL)	
19 Depth of water table : 45m-50m bgl	
20 Whether any habitation within 300m : No distance	
21 Project Cost (including EMP cost) : Rs. 4.93,80,626/-	
22 EMP cost : Capital Cost Rs. 26,56,000/ year	
Recurring Cost - Rs. 19.70.012/Year	
Total Cost = 1,35,86,500/ 5 years	
23 CER cost : Rs. 5.00.000/-	
24 Assistant Director, mines 500m cluster : ROC. No: KV1/250/2018, dated:	
letter 11.12.2018	
25 VAO certificate regarding 300m radius : Letter dated 21.08.2019	
cluster	

MEMBER SECRETARY SEAC -TN

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Based on the presentation made by the proponent and the documents furnished the committee instructed the project proponent to furnish the following details:

- Necessary darification shall be obtained from the DFO. Virudhunagar that the
  proposed project does not fall under section 5 of the Environment (Protection)
  Act, 1986 issued by MoEF&CC Vide its direction dated: 13.11.2013 for restricting
  the mining activity nearby Western Chats.
- The project proponent should submit the details on the exact distance of Srivilliputtur Grizzled Squirrel Wildlife Sanctuary from the proposed Project site boundary from the competent Authority.

The Project proponent furnished above said details to SEIAA-TN on 13.01.2021. TamilNadu Forest Department vide letter dated 04.12.2020 has stated that the distance between the boundary of the Eco-sensitive zone and proposed site is 475 meters. The distance between the boundary of the Grizzled squirrel Wildlife Sanctuary. Srivilliputtur and the proposed site it 2.14 km.

The Proposal was once again placed in 199\*SEAC held on 09.02.2021. Based on the proponent documents furnished, the SEAC decided to get clarification from the Chief Wildlife Warden, Chennai regarding whether the mine it located within the Ecosensitive Zone.

The proposal was again placed for appraisal in this 241th meeting of SEAC held on 03.11.2021.

SEAC noted that Wildlife Warden. Grizzled Squirrel Wildlife Sanctuary. Srivilliputtur vide Lr. Dt: 04.12.2020 has stated that the distance between this proposed rough stone quarry lease at S.F.No. 705 (Part-II) Kottaiyur Village. Srivilliputtur Taluk, Virudhunagar District. Tamil Nadu and the boundary of Eco-Sensitive Zone & boundary of Grizzled Squirrel Wildlife Sanctuary, Srivilliputtur are 475 m and 2.14 km respectively.

MoEF&CC vide notification Dt: 30.10.2019, has notified Eco- Sensitive Zone for Grizzled Squirrel Wildlife Sanctuary. Stivilliputtur, in the state of Tamilnadu and in the Para 1 of Page No. 20 it is stated as:

"NOW THEREFORE, in exercise of the power conferred by sub-section(I) and clauses (v) and (xiv) of sub-section (2) and sub-section (3) of section 3 of the Environment (Protection) Act 1986 (29 of 1986) read with sub-rule (3) of rule 5 of the Environment

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CHAIRMAN

(Protection) Rules, 1986, the Central Government hereby notifies an area with an extent varying from zero kilometers (due to Inter-state boundary) to 6.2 kilometers around the boundary of Srivilliputhur Grizzled Squirrel Wildlife Sanctuary in the State of Tamit Nadu as the Srivilliputhur Grizzled Squirrel Wildlife Sanctuary as Eco-sensitive Zone (herein after referred to as the Eco-sensitive Zone) details of which are as under, namely:-

- Extent and boundaries of Eco-sensitive Zone. (1) The extent of Eco-sensitive.
- Zone varies from zerokilometers (due to Inter-state boundary) to 6.2 kilometers around the Srivilliputhur Grizzled Squirrel Wildlife Sanctuary. The area of the Eco-Sensitive Zone is 305.86 square illometers.
- 3. The boundary description of the Eco Sensitive Zone is appended at Annexure I.
- The map of the Protected Area demarcating the Eco-sensitive Zone boundary is at Annexure IIA-E.
- List of Geo co-ordinates of the boundary of the Protected Area and the Eco-Sensitive Zone is at Annexure III in Table (A) and (B) respectively.
- The list of villages falling within the Eco-sensitive Zone along with their Geo coordinates at prominent points is appended as Annexure IV."

On the other hand, the Wild Life Warden letter states that the proposed quarry is located at 2.14 km from the boundary of the Grizzled Squizzel Wildlife Sanctuary and hence the SEAC after detailed deliberation has decided not to recommend the proposal for the grant of Environmental Clearance.

Subsequently it was placed in 484th SEIAA meeting held on 3.2.2022 and Authority decided to request the Member Secretary. SEIAA to communicate the SEAC minutes to the Project proponent adding that in the event of representation being received, it may be forwarded to SEAC for further course of action.

The PP has made the representation on 18.7.2022 along with a letter from Wild Life Warden dt. 4.12.2020 & PCCF le dt. 16.12.2022. In this regard the MS SEIAA has requested certain clarification from PCCF vide Ir No. SEIAA-TN letter No. SEIAA-TN/F.No.7378/2016 Dt. 8.8.2022. The PCCF letter Dt. 28.12.2022 is as follows.

MEMBER SECRETARY SEAC -TN

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With reference to the above, it is informed that Streethylatine Higgs and Higgs and Companies Type 1. It is informed that Streethylatine Higgs are companied to produce on the Streethylatine Streethylat

2) these on the above Real reservation of Vegamaia Wildlife Statistics Shift Spatishment by the Consequence of India and S.S. So. 3651 (E) dated the In-Shift lands.

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3) theory, defeat. 10 facts of the Securities Rose needs at a principality Physics for the American for principality Physics of the American for an applicable and frust few arctions for and flatters as also not required, made the above and two appropriate. For Securities Some weatherflat. Item already been instead by the Government of Imps.

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With the above remarks it was again been placed in 359<sup>th</sup> SEAC meeting held on 2 3.2023. Based on the presentation and documents furnished by the project proponent. SEAC decided to accept the remarks of PCCF and decided to recommend the proposal for the grant of Environmental Clearance for the production quantity of 325120 cu.m of Rough Stone to the depth of 40m (25m AGL+ 15m BGL) in a period of 5 years and not exceeding annual peak production of 65690 m<sup>3</sup> of Rough stone as per

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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 5.O, 1807(6) dated 12.04.2022.
- The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region before obtaining the CTO and get the necessary statutory permission under the MMR 1961 pertaining to the quarry working operations.
- The mine manager and other statutory competent persons such as blaster (or)
  mine mate shall be appointed before the commencement of mining operation
  as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations,
  1961.
- 4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy.
- 5. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
- 6. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 3<sup>rd</sup> year whichever is earlier, by involving a reputed Research and Academic Institution; such as

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NIRM, IIT-Chernal, NIT-Dept of Mining Engineering, Surathkal, Anna University Chennal-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPC8, AD/Mines-DGM and DMS, Chennal as a part of Environmental Compliance.

- 7. Within six months of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the quarry on the surrounding prominent structures within 500 m from the mine lease such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8. The Project Proponent shall develop the Green belt activities (tree plantations) in the safety zone as stipulated in the Mining Plan around the periphery of the proposed quarry lease before obtaining the CTO from the TNPCB.
- The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
- 10. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
- The Project Proponent 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.

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- 12. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
- 13. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
- 14. The Project Proponent shall also Install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
- 15. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
- 16. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
- 17. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
- 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.
- 19. As accepted by the Project proponent, in fleu of CER cost is Rs. 5.0 lakh shall be spent for conservation activities in SMTR in consultation with DFO/ Deputy Director SMTR before obtaining CTO from TNPCB.

MEMBER SECRETARY SEAC -TN

CHAIRNANA SEAC- TN 20.The Project Proponent shall cater to the needs of the local population such as employment opportunities, adequate Air Pollution Control measures etc, as committed during public hearing.

Agenda No.359-20 (File No: 8519/2022)

Proposed Rough stone quarry lease over an extent of 1,20.0 Ha in S.F.No.56/I(part-5) Kothapetta Village, Krishnagiri Taluk, Krishnagiri District, Tamii Nadu by Tmt. SA. Sumithashankar - For Environmental Clearance (SIA/TN/MIN/62641/2021 ,dated 23.7.2022)

This proposal was placed in 359th SEAC meeting held on 2.3.2023. The details of the project furnished by the proponent are given on the website (Parivesh.nic.in).

The SEAC noted the following:

- The Proponent. Tmt. SA. Sumithashankar, has applied for Environmental Clearance for the proposed rough stone quarry lease over an extent of 1.20.0 Ha in S.F.No.56/I(part-5) Kothapetta Village, Krishnagiri Taluk, Krishnagiri 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.
- Tor Granted vide Lt.No. SEIAA-TN/F.No.8519/SEAC/ToR-992/2021 Dt. 28.7.2021.
- Public hearing conducted on 7.6,2022.
- 5. The mining plan is for the period of Five years and the production for the five years states that the total quantity of recoverable as 179843 cu.m of rough stone and the annual peak production is 41690 Cu.m. The ultimate depth of mining is 40m (10 m above ground level and 30 m below ground level).

() () ()			
1	Name of the Owner/Firm	;	Tmt. SA. Sumithashankr
			W/o. Shankar Raj,
		l	No.252. Metbanda Village,
		L	Venkatapuram,

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	······································	$\neg$	Krishnagiri Taluk,
	,		Krishnagiri District - 635 001.
2	Type of quarrying (Savudu/Rough	÷	Rough Stone
	Stone/Sand/Granite)		- 2 <del></del>
3	S.F.No. of the quarry site with area break-up	1	56/1 (Part-5)
4	Village in which situated	:	Kothapetta
5	Taluk in which situated	:	Krishnagiri
6	District in which situated	:	Krishnagiri
7	Extent of quarry (in ha.)	:	1.20.0 Ha
8	Period of quarrying proposed	;	5 years
9	Type of mining	;	Opencast Manual Mining
10	Production (Quantity in m <sup>b</sup> )	:	1,79,843 m³ of Rough Stone
11	Latitude & Longitude of all corners of	:	12°32'53.25"N to 12°32'57.45"N
	the quarry site		78*12'29,7t"E to 78*12'35.28"E
12	Topo Sheet No.	:	57-L/02
13	Man Power requirement per day:	;	30 Nos.
14	Pregse area communication approved	:	Na.Ka.En.49/2016/Kanimam.
	by District Collector with date		dated:29.02.2016
15	Mining Plan approved by Assistant	;	Roc.No.96/2021/Mines, dated:
	Director (Addl. Charge), Department of		17.02.2021
	Geology and Mining with date		
16	Water requirement:	Ξ	3.5 KLD
	12. Drinking water & domestic		1.0 KLD
	purposes (in KLD)		
	13. Dust Suppression (in KLD)		1.5 KLD
	14. Green Belt (in KLD)		1.0 KLD
17	Power requirement	[	
	i. Domestic Purpose	:	TNEB
18	Depth of quarrying	:	40m (10m ag) + 30m bgl)
19	Depth of water table	:	70m below ground level
20	Whether any habitation within 300m	3	No
	distance		
21	Project Cost (including EMP cost)	:	Rs.92.31.000/-
22	EMP cost	;	Capital Cost ~ Rs. 16,28,000/-
		L	Recurring Cost – Rs. 7.93,000/-
23	CER cost	;	Rs.1.84.620/-
24	Assistant Director, mines 500m cluster	†	Roc. 96/2021/Mines, dated:
<u> </u>	letter		10.03.2022

MEMBER SECRETARY

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25	VAO certificate regarding 300m radius	: Letter dated 19.03.2021
	cluster	l :

Based on the presentation and documents furnished by the project proponent and considering the safety aspects by reducing the last bench in XY-AB section. SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production quantity of 1784435 cu.m of Rough Stone to the depth of 30m (10m AGL+20m BGL) in a period of 5 years and not exceeding annual peak production of 41690 m<sup>2</sup> of Rough stone as per the approved mining plan 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.
- The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Channai Region before obtaining the CTO and get the necessary statutory permission under the MMR 1961 pertaining to the quarry working operations.
- The mine manager and other statutory competent persons such as blaster (or)
  mine mate shall be appointed before the commencement of mining operation
  as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations,
  1961.
- 4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy.
- The Project Proponent shall furnish slope stability action plan to the concerned.
   AD (Mines) for the planned working by maintaining appropriate benches.

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CHAIRNAIN SEAC-TH incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.

- 6. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this duster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 3<sup>rd</sup> year whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IIT-Chennai, NIT-Dept of Mining Engineering, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
- 7. Within six months of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried our in the quarry on the surrounding prominent structures within 500 m from the mine lease such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS. Chennal as a part of Environmental Compliance without any deviation.
- 8 The Project Proponent shall develop the Green belt activities (tree plantations) in the safety zone as stipulated in the Mining Plan around the periphery of the proposed quarry lease before obtaining the CTO from the TNPCB.
- The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
- 10. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other

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habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.

- 11. The Project Proponent 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.
- 12. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
- 13. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
- 14. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper endosures before obtaining the CTO from TNPCB.
- 15. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
- 16. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
- 17. The Project Proponent shall send a copy of the dearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.

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- 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.
- 19. As accepted by the Project proponent, CER cost is Rs. 5.0 lakh shall be spent for Panchayat Union Middle School, KA Nagar. Krishnagiri for the committed activities before obtaining CTO from TNPCB.

Agenda No: 359-21 (File No: 9378/2019)

Proposed earth quarry lease over an extent of 1.42.0 Ha at S.F.Nos 413/1A, 411/1B. 412/16 and 412/17A Pottikuram Villahge, Uthamapalaym Taluk, Theni District, Tamil Nadu by Thiru. K Kathiravan - For Environmental Clearance. ( SIA/TN/MIN/281303/2022, dated: 7.7.2022)

The proposal was placed in this 359th meeting of SEAC held on 02.03.2023. The details of the project furnished by the proponent are given in the website (parlvesh.nic.in).

## The SEAC noted the following:

- The Proponent, Thirt. K Kathiravan has applied for Environmental Clearance for the Proposed earth quarry lease over an extent of 1.42.0 Ha at S.F.Nos 411/1A, 411/1B, 412/16 and 412/17A Pottluram Villahge. Uthamapalaym Taluk. Theni District, Tamil Nadu.
- 2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- The mining plan is for 3 years and production for the three years states that the total quantity of recoverable as 16778 cu.m of Earth. The ultimate depth of mining is 2m BGL.

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1	Name of the Owner/Firm		Thiru. K. Kathiravan. 5/o. P. Kandasamy, No.1/279/2, Kalaimagal Nagar, Vallalar Street, Vennimalai Post, Kadapparai, Karur District - 639 006.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	;	Earth
3	S.F No. of the quarry site with area break-up	1	411/1A, 411/1B, 412/16 and 412/17A

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4	Village in which situated	۲	Pottlpuram
5	Taluk in which situated	: ا	Uthamapalayam
6	District in which situated	۲ ٔ	Theni
7	Extent of quarry (in ha.)	:	t.42.0 Ha
8	Period of quarrying proposed	:	3 Years
9	Type of mining	:	Opencast Semi Mechanized Mining
10_	Production (Quantity in m³)	:	16.778 m³ of Earth
11	Latitude & Longitude of all corners of	;	09"55"27.11"N to 09"55"33.96"N
	the quarry site	-	77°18'30.81"£ to 77°18'37.58"E
12	Topo Sheet No.	;	58-G/05
13	Man Power requirement per day:	;.	7 Nos
14	Precise area communication approved	-,	Na.Ka.Er.,297/Kaniman/2020,
	by Assistant Director, Department of		dated:17.06.2020
	Geology and Mining with date		
15	Mining Plan approved by Assistant	;	Rc. No. 297/Mines/2020,
	Director, Department of Geology and	۱ <sup>۱</sup>	dated:20.06.2022
	Mining with date		
16	Water requirement:	:	I.O KLD
	15. Drinking water & domestic		0.3 KLD
l	purposes (in KLD)		
1	16. Dust Suppression (in KLD)		0.4 KLD
1	17. Green Belt (in KLD)		0.3 KLD
17	Power requirement		
	). Domestic Purpose	÷	TNEB
	k. Industrial Purpose		2800 Liters of HSD
18	Depth of quarrying	r	2m bgl
19	Depth of water table	:	30m bgl
20	Whether any habitation within 300m	:	No
	distance		
21	Project Cost (including EMP cost)	:	Rs. 10,24,000/-
22	EMP cost	ļ :	Capital Cost – Rs. 4.45 lakhs
l			Recurring Cost - Rs. 1.43 lakhs per
1			annum
23	CER cost	1	Rs. 1,50,000/-
24	Assistant Director, mines 500m duster	:	Rc. No. 297/Mines/2020,
	letter		dated:20.06.2022
25	VAO certificate regarding 300m radius	١;	Letter furnished
	cluster	i	
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CHAIRMAN SEAD TH Based on the presentation and documents furnished by the project proponent. SEAC decided to recommend the proposal for the grent of Environmental Clearance for the production quantity of 16778 cu.m of Earth to the depth of 2m BCL in a period of 3 years 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.
- The PP shall obtain necessary permission from the competent authority to operate the quarry in the name of 'Ordinary Earth' instead of 'Earth' as per the recent G.O while executing the lease.
- 3 The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
- 4. 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 TNPC8.
- Perennial maintenance of hautage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
- 6. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area appropriate.

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- 7. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- 8. The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The guilles formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.
- Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 10. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPC8 once in 6 months.
- 13. 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.
- 12. The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous pients species

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should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e., planting different types of trees at very dose intervals may be tried which will give a good green cover. Greenbelt needs to be developed in the periphery of the mines area so that at the dosure time the trees would have grown well.

- 13. Noise and Vibration Related: Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 14. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 15. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Slit Management" and prepare a 5OP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 17. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

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- 18. To ensure safety measures along the boundary of the quarry site, security guards are to be ported during the entire period of the mining operation.
- 19. After mining operations are completed, the mine closure activities as indicated in the mine dosure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
- 20. The Project proponent shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flore, fauna etc.
- 21. The Project Proponent shall comply with the provisions of the Mines Act, 1952.
  MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are 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.
- 23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS). Chennal Region by the proponent without fail.
- 24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 25. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.

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- 26.All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 27. As accepted by the Project proponent. CER cost is **Rs. 1.5 lakh** shall be spent for GOT. Kallar Hr. Sec School Muthalyanchettipatti Village for the committed activities before obtaining CTO from TNPCB.

Agenda No: 359-22 (File No: 9133/2022)

Proposed Rough Stone quarry Lease over an extent of 4.19.5 Ha at S.F.No. 385/I & 385/2A in Villukurt Village, Kalkulara Tatuk, Kanniyakumari District, Tamil Nadu by Thiru.R.George Antony – For Environmental Clearance (SIA/TN/MIN/263691/2022 dated 25.03.2022)

The proposal is placed in this 359° SEAC meeting held on 02.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

## SEAC noted the following:

- The Project Proponent, Thiru.R.George Antony has applied for Environmental Clearance for the Proposed Rough Stone quarry Lease over an extent of 4.19.5 Ha at S.F.No. 385/L& 385/2A in Villukuri Village. Kalkulam Taluk, Kanniyakumari District, Tamil Nadu.
- The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. The salient features of the project are as follows:

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	* * * * * * * * * * * * * * * * * * *	
1	Name of the Owner/Firm	Thiru.R. George Antony.
		S/o, Rethinam,
		No.16/22-G2, Kaliankadu,
		Chunkankadai (Po),
		Kanniyakumari District - 629 003.

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2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone Quarry
3	S.F No. Of the quarry site with area break-up	385/1 & 365/2A
4	Village in which situated	Villakuri
5	Taluk in which situated	Kalkulam
6	District in which situated	Kanniyakumari
7	Extent of quarry (in ha.)	4.19.5Ha
8	Latitude & Longitude of all corners of	08°13'05.80"N to 08°13'11.55"N
	the quarry site	77°22'39.65°E to 77°22'50.06°E
9	Topo Sheet No.	58-H/08
10	Type of mining	Opencast Mechanized Mining
11	Period of quarrying proposed	5 years
12	Production (Quantity in m³)	3,89,724m <sup>3</sup> Rough stone
13	Depth of quarrying	60m below from existing ground
		profile
-		
14	Depth of water table	65m-60m
14	Depth of water table  Man Power requirement per day:	65m-60m 34 Nos.
	·	
15	Man Power requirement per day:	34 Nos.
15	Man Power requirement per day: Water requirement:	34 Nos. 3.6 KLD
15	Man Power requirement per day:  Water requirement:  14. Drinking & domestic purposes	34 Nos. 3.6 KLD 0.8 KLD
15	Man Power requirement per day:  Water requirement:  14. Drinking & domestic purposes  15. Dust suppression	34 Nos. 3.6 KLD 0.8 KLD 1.6 KLD
15 16	Man Power requirement per day:  Water requirement:  14. Drinking & domestic purposes  15. Dust suppression  16. Green Belt	34 Nos. 3.6 KLD 0.8 KLD 1.6 KLD 1.2 KLD
15 16	Man Power requirement per day:  Water requirement:  14. Drinking & domestic purposes  15. Dust suppression  16. Green Belt	34 Nos.  3.6 KLD  0.8 KLD  1.6 KLD  1.2 KLD  3,11,776 litres of HSD for the entire
15 16	Man Power requirement per day:  Water requirement:  14. Drinking & domestic purposes  15. Dust suppression  16. Green Belt  Power requirement	34 Nos.  3.6 KLD  0.8 KLD  1.6 KLD  1.2 KLD  3,11,776 litres of HSD for the entire project life
15 16	Man Power requirement per day:  Water requirement:  14. Drinking & domestic purposes 15. Dust suppression 16. Green Belt  Power requirement  Precise area communication approved	34 Nos.  3.6 KLD  0.8 KLD  1.6 KLD  1.2 KLD  3,11,776 litres of HSD for the entire project life  Rc.No.362(A)/G&M/2015,
15 16 17	Man Power requirement per day:  Water requirement:  14. Drinking & domestic purposes 15. Dust suppression 16. Green Belt  Power requirement  Precise area communication approved by the District Collector with date	34 Nos.  3.6 KLD  0.8 KLD  1.6 KLD  1.2 KLD  3,11,776 litres of HSD for the entire project life  Rc.No.362(A)/G&M/2015, date:11.12.2021.
15 16 17	Man Power requirement per day:  Water requirement:  14. Drinking & domestic purposes 15. Dust suppression 16. Green Belt  Power requirement  Precise area communication approved by the District Collector with date  Mining Plan approved by the Deputy	34 Nos.  3.6 KLD  0.8 KLD  1.6 KLD  1.2 KLD  3,11,776 litres of HSD for the entire project life  Rc.No.362(A)/G&M/2015, date:11.12.2021.  Rc.No.362(A)/G&M/2015.

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20	500m cluster letter issued by the Deputy Director, dept. of Geology and Mining with date	1
21	VAO certificate regarding habitations in 300m radius	04.01.2022.
22	Project Cost (excluding EMP)	Rs.1,55.53,000/-
23	ЕМР соя	Capital cost: Rs.36,54,650/- Recurring cost: Rs.22,66,576/-

- Earlier, the proposal was placed in 289th meeting of SEAC held on 24.06.2022.
   Based on the presentation made by the proponent, SEAC decided call for the following details.
  - By considering safety point of view, the PP shall remove the last bench which having the width less than 12m & the depth is restricted to 50m AGL, Accordingly revise the production quantity.
  - The PP shall furnish the certified compilance report from the IRO-MoEF&CC. Chennal on the EC issued.
  - The Proponent shall submit a conceptual "Slope Stability Plan" for the proposed quarry during the appraisal while presenting to obtain the EC.
  - The mitigation measures to be furnished after discussions with DFO.
     Kanyakumari at a cost of Rs. 10 lakhs, since KKWLS is at 3.65km.

Subsequently, the proposal was placed in 534\* Authority meeting held on 20.07,2022. In addition to the details called by SEAC, SEIAA decided to obtain the following additional particulars from the project proponent with reference to project life (or) subject to a maximum of thirty years, whichever is earlier.

- i. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area from reputed research institutions on the following:
- a) Soll health & bio-diversity.

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b) Climate change leading to Droughts, Floods etc.

c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature,

& Livelihood of the local people.

d) Possibilities of water contamination and impact on aquatic ecosystem health.

e) Agriculture, Forestry &, Traditional practices.

f) Hydrothermal/Geothermal effect due to destruction in the Environment.

g) Bio-geochemical processes and its foot prints including environmental stress.

h) Sediment geochemistry in the surface streams.

ii. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water

bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess

the impacts on the nearby water bodies 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, covering the project life (or) subject to a maximum of thirty years,

whichever is earlier.

iii. To furnish disaster management plan and disaster mitigation measures in

regard to all aspects to avoid/reduce vulnerability to hazards & to cope with

disaster/untoward accidents in & around the proposed mine lease area due to

the proposed method of mining activity & its related activities.

iv. To furnish risk assessment and management plan including anticipated

vulnerabilities during operational and post operational phases of Mining.

v. Detailed Mine Closure Plan covering the project life (or) subject to a maximum.

of thirty years, whichever is earlier.

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CHAIRMAN SEAC: TH vi. Detailed Environment Management plan including adaptation, mitigation & remedial strategies covering the project life (or) subject to a maximum of thirty vears, whichever is earlier.

On receipt of the details from the proponent, the proposal is again placed in this 359° SEAC meeting.

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC considering the safety aspects, decided to recommend the proposal for the grant of Environmental Clearance for the restricted quantity of 3,80,514 m² of Rough Stone for an ultimate depth of 50m Above ground level with annual peak production of 85,370m² of rough stone, 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 5.0.
  1807(E) dated 12.04.2022.
- The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 before obtaining the CTO.
- 3. The proponent shall strictly adhere to the conditions as recommended by Anna University. Chennal for ensuring the Slope Stability aspects of the proposed quarry and the points suggested in the Slope Stability Action Plan Report.
- 4. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
- 5. The proponent shall maintain the '\$3 (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, II/1959.

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- and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
- 6. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
- The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
- No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed 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.
- 10. 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.
- 11. 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.
- 12. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA. MoEF, TNPCB, and DMS, Chennai as a part of Environmental Cornditance.

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- 13. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
- 14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennal.
- 15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
- 16. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 2 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg. Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA. MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compilance without any deviation.
- 17. 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.
- 17. As accepted by the Project proponent in lieu of CER Rs. 10 lakes shall be spent for the conservation measures in Knayakumari wild life sanctuary in consultation with DFO, Kanyakumari before obtaining CTO from TNPCB.

Agenda No: 359-23 (File No: 6726/2019)

Existing Limestone Mine lease over an extent of 31.092 Ha at S.F.Nos. 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790 & 791/2 in Ramayanpatti Village. Tirunelvall Taluk, Tirunelvall District, Tamil Nadu by M/s. Krishna Mines- For Extension of Validity of Environmental Clearance.(SIA/TN/MIN/295544/2022. dated:23.12.2022)

The proposal was placed in this 359th meeting of SEAC held on 02.03.2023. The details of the project furnished by the proponent are given in the website (perivernital).

The SEAC noted the following:

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- The Proponent, M/s. Krishna Mines has applied for Extension of Validity of Environmental Clearance for the Existing Limestone Mining lease over an extent of 31.092 Ha at S.F.Nos. 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790 & 791/2 in Ramayanpatti Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu.
- The project/activity is covered under Category "B1" of Item I(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- Mining operation in this lease was stopped on 16.04.2014 after receiving directions from MoEF&CC under Section-5 of Environment (Protection) Act, 1986, vide Lr. No. J-11015/06/2014-IA.II (M) dated 04.04.2014.
- 4. As directed by MoEF & CC, TNPCB had initiated credible action by way of filing a complaint vide CC No 280 of 2014 under section 200 of Cr.PC for offences U/s 15 tw, 16 & 19 (a) of the EPA act 1986 before Hon'ble Magistrate V court. Tiruneliveli vide letter dated 10.09.2014.
- 5. In pursuance of the Supreme Court order dated 02.08.2017 in CWP no. 114/2014, the District Collector, Tiruneiveli has levied a penalty of Rs.2,57,18,346 vide notice M3/10842/2019 dated 19,12,2019 for mining and transportation of 1,75,065MT excess quantity of Limestone from lease area from 2000-01 to 2014-15 without prior environmental clearance under Section 21(5) of MMDR Act 1957.
- Krishna Mines had deposited Rs 2.57,18,346/- on 20.12.2019 and obtained NOC from Director of Geology and Mining, Chennal vide letter Re No.8480/MM3/2002 dated 10.01.2020.
- 7. Then environmental clearance under violation category on 03.03.2021 was issued by SELAA-Tamil Nadu vide Lr. No.SEIAA-TN/F.No.6726/Violation/EC-4571/2020 dated:03.03.2021. The Environmental Clearance will be coterminous with the mine lease period or limited to a period up to 31.03.2023 with production of 13.47.114 tons of Limestone from the date of Issue of EC whichever is earlier.

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- Subsequently the supplementary lease order was obtained vide G.O (Ms) No 302 Industries (MMA.2) Department on 17.11.2021. The supplementary lease deed was executed on 01.12.2021 and the lease is valid up to 31-3-2030.
- Consent to Operate (CTO) for Air (Prevention and Control of Pollution) Act 1981 and Water (Prevention and Control of Pollution) Act 1974 has been obtained on 24.08.2021. CTO is valid up to 31.03.2023.
- After obtaining EC, executing supplementary lease deed & CTO mining was restarted on the lease area on 04.12.2021.
- Permission has been obtained from Director of Mines Safety, under Regulation 106(2)(b) of Metalliferous Mines Regulations, 1961.
- 12. Mining operations in this lease area is carried out after obtaining all required statutory clearances and implementation of various control measures for environmental management such as water sprinkling, provision of garland drains, retaining wall plantation of about 33,000 trees inside and outside the lease area, etc.
- Certified EC compliance report obtained from Integrated Regional office, MOEF
   CC. Chennai, vide letter no EP/12.1.2022-23/SEIAA/194/TN/1336 dated
   14/12/2022.
- 14. Penalty of Rs 2,50,000/- was imposed by J.M.Court V. Tirunelveli order dated 26.02.2022 for the credible action plan initiated by TNPCB vide CC No 280 of 2014 under section 200 of Cr.P.C for offences U/s 15 r/w, 16 & 79 (a) of the EPA act 1986 and the amount was also paid by Krishna Mines.
- 15. Towards conservation plan for flora & Fauna and annual monitoring of Biodiversity Rs 50 lakhs by way of DD no 397145 dated 17-11-2022 is paid to DFO & Wild life warden. Tiruselvell Division on 23-11-2022.
- 16. The amount prescribed for Ecological remediation (Rs15.546 takhs), natural resource augmentation (Rs.18.66 takhs) & community resource augmentation(Rs.23.319 takhs) totalling Rs 57.525 takhs remitted in the form of bank guarantee to TNPCB on July 26th. 2021 which is valid up to 31-3-2023.
- 17. As per this EC condition, as against Rs 57.525 lakhs. Rs 60, 22 lakhs is spent for carrying out the following activities:

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t.	Ecological Remediation	Rs.16.49,480/-
2.	Natural Resource Augmentation	Rs.19,41,600/-
3.	Community Resource Augmentation Plan	Rs.24.21 500/
	Total cost for Remediation plan & NCRAP	Rs.60,22,580/-
	Say	Rs.60,22 Lakhs

- Past production details have been certified by Joint Director/Assistant Director,
   Geology & Mining. Titrunelveli vide Rc.No.M3/10844/2019 dated 22:08:2022.
- 19. From the above, it is seen that an amount of 1.59,938.46T of timestone has only been mined up to 31-3-22 out as against the EC approved quantity of 13,47.114T. Hence it could be seen that only less quantity than the approved quantity has been achieved so far.
- 20. From the above table it could be seen that the present review of mining plan was prepared and approved for quantity not exceeding the quantity in the previous mining plan (i. e annual lime stone production of 4.55 lakh TPA).
- 21. Salient details of the approved mining plan is as follows,

Balance available mineral reserve as on 1/9/2022	9.57 Mil.T
Proposed production during plan period (2023-24 to 2027-23)	2.28 Mil.T
Balance Reserves available after present period. (2023-24 to 2027-28)	7.29 Mit.T
Proposed limestone Production per year	0.455 MB.T
Additional Years available after plan period	16.02 Say 16 years (up to 2043-44)

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- 22. Review of mining plan for the period 2023-24 to 2027-28 obtained and approved by IBM vide No TN/TNL/LST/ROMP-1694-MDS dated 02/12/2022.
- 23. MoEF&CC Notification 5.O. 221(E), Dt:18.01.2021.
- 24. MoEF&CC Notification S.O. 1807(E), Dt: 12.04.2022,
- 25.MoEF&CC O.M. Dt: 13.12.2022.

During the meeting, the proponent stated that he had requested for an automatic extension as per the MoEF&CC notification dated 12.04.2022 and O.M dated 13.12.2022 and hence requested for the same.

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

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

Based on the presentation made by the proponent, the SEAC noted that the PP has valid lease up to 31.03.2030 and hance decided to confirm that the PP is eligible for 'automatic extension' as per the aforementioned OM issued by the MoEF & CC.

As accepted by the Project proponent in lieu of the CER, Rs. 5.0 lakhs shall be spent for the conservation measures in Gangaikondan Wild Life sanctuary in consultation with DFO, Thunelvelli, before obtaining CTO from TNPCB.

Agenda No: 359 - TA (File No: 9645/2022)

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

The proposal was placed for appraisal in this 340° SEAC Meeting held on 23.12.2022. The details of the project furnished by the proponent are given in the

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The SEAC noted the following:

- The Proponent, Executive Engineer, PWD/WRD, has applied for Environmental Clearance for the Proposed Karimbedu Sand Quarry Project for Restoring the Functional Efficiency of the Kosasthalaiyar River over an Extent of 4.95.0Ha of Government land in S.F.No. 187 (Part) of Kosasthalaiyar (Nagari) River in Karimbedu Village, Pallipattu Taluk, Thuvallur District, Tamil Nadu.
- The project/activity is covered under category "B2" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
- 3. As per mining plan, the lease period is for one year and the mining plan is for the period of One year & mining quantity should not exceed 50.985 cum. of sand per annum. The ultimate depth - 2.06 metres (1.16m - Above River Bed (Shoal) & 0.90m · Below River Bed).
- 4. Earlier the proposal was placed in the 340° SEAC meeting held on 23.12.2022. Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub Committee constituted by SEAC to assess the present Environmental Condition. Further, the PP shall furnish the following details during the site inspection.
  - The Project Proponent shall study and report in detail on the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020".
  - Pillar stone shall be erected before the site inspection.

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr. No. SEAC-TN/9645/ Site Inspection/2022, dt. 23.12.2022 to inspect and study the field condition for the proposal seeking EC for a sand quarry proposed at Karimbedu Village in S.F.No. 187 (Part) Pallipattu Taluk, Tiruvallur District. The Committee comprises of Prof. Dr. Kurian Joseph., Member, SEAC.

As per the above letter the sub-committee visited the site on 31.12.2022. The observations made in the field and recommendation derived on the basis of the field

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#### visit are as below:

The following officials of WRD/PWD and the EIA Consultant participated and facilitated the field inspection:

- 1. Er. G.R. Suganthi EE/Mining & Monitoring Division/Chennal
- 2. Er. B.Rajasekaran., AEE/Mining & Monitoring Sub division/Tiruvallur
- 3. Er.N.Murugason, A.E.F., W.R.D. Mining and monitoring DIVISION Chennal
- 4. Er. S. Sampath AEE Mining and Monitoring Sub Division Thiruvallur
- 5. Er.S.Praveenraj Asst.Engineer Mining and Monitoring sub Division Vellore
- M.Kishore Dev FE, EIA Co Ordinator GEMS Team

## Salient Details of Karlmbedy Sand Quarry:

2.84	Element of	Figure 3 Sept. 19
1	SEAC File number	9645/2022
2	Proponent	Executive Engineer, WRD., Mining and Monitoring Division. Chennai
3	Project Activity	1 a. Mining of minerals
4	Category	B2
5	Project Type	Fresh EC
6	River	Kosasthalaiyar
7	Location	Survey No. 187 (P) of Karlmbedu Village
9	Area	4.95 Ha
10	Sand Mining Quantity & Duration	50.985 m³ / 1 year
11	Proposed Depth	2.06 m (1.16 m above bed level+0.90 m below bed level)
12	Method & Mining	Open cast - Machinery Excavation
13	Location of the propos	ed area latitude and longitude
Ī	NI3° 19' 24.0331"	E79° 30'45.5771"
	N13° 191 21.6807"	E79° 31' 01.8499"
	NI 3° 19' 18.4614"	£79° 31' 01.3646"
	N13° 19' 20.8138"	E79° 30° 45.0919"

Observations:

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- Proposed sand quarry is located in the river bed of Kosasthalaiyar (Nagari
   River at a distance of about 1200 m NAV of Andhra Pradesh State
   Boundary.
- The dimension of the proposed sand quarry is 495m in length and 50m in width and 2,06 m depth.
- NH-736 8 (Chittoor-Thatchur) is located at about 160 m North.
- Nedlyam Reserve Forest boundary is at a distance of 210 m from the project site.
- Nearest habitation is at a distance of about 320 m North East.
- Karimbedu Government School is located at about 720m N/E of Proposed quarry site
- Nearest drinking water well is located at about 1000m downstream side of proposed sand quarry site.
- The sand mining is proposed to restore the functional efficiency of the Kosathalatyar River, which is observed to have sand deposits above the river bed level affecting the river flow. (River bed level is +138,80m).
- WRD officials informed that a temporary (Katcha) road will be formed along the banks of river with locally available biodegradable materials to transport the sand to the yard.
- As boundary locations and local reference bench marks were not available at the time of site visit, the WRD officials were requested to establish the same. It has been done later. Photographs of the site during the site visit and after establishment of total reference bench marks are presented in Figure 1 and Figure 2 respectively.
- WRD officials were also requested to reassess the availability of sand in
  the proposed mining area as some part of the sand was seen to have
  washed away during the recent flood flows in the river. WRD officials
  confirmed the availability of the proposed quantity of sand after resurvey.

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Recommendations:

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- Mining of sand at the proposed sand quarry in Survey No. 187 (P) of Karimbedu Village, Pallipattu Taluk, Tiruvallur District as per the mining plan is recommended for Environmental Clearance.
- Safety distance of 50 m to be left from the bank of the river.
- Quarrying shall be done without causing any hindrance to the local public and nearby forest land.
- Enforcement & Monitoring Guidelines for Sand Mining, 2020 of the MoEFCC, Government of India (Annexure VIII Sallent provision for sand mining in the state of Tamil Nadu) to be implemented.
- PWD, WRD shall take the needful actions immediately to study the sand replenishment in the Kosathalaiar River and establish the basis for sustainable sand mining.
- As per Rule 36 of the Tamil Nadu Minor Mineral Concession Rules 1956, no sand quarry should be allowed with in 500m radial distance from the location of any bridge, water supply system, infiltration well or pumping installation.
- Recommendations of the Environmental Management Plan shall be strictly implemented.
- Project Proponent may consider providing the needful support to repair
  the access road to the nearby habitat across the River at upstream of the
  Project site (Figure 3) as the Road was observed to be damaged during
  the recent flood flow occurred in the river.

The proposal was again placed in 359th SEAC meeting held on 02.03.2023. Based on the recommendations of the sub-committee and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

The Project Proponent shall conduct "Replenishment Study" as per Sustainable.
 Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring.

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- Guldelines for Sand Mining 2020, through a reputed institution having expertise in the field and shall submit the study to SEIAA within 6 months.
- As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated:
   30.09.2020 and 20.10.2020 the proponent shall adhere the EMP as committed.
- The proponent shall fix flag posts at boundaries for the proposed mining area
  covering an extent of 4.95.0 Ha. There should be no deviation/violation with
  respect to the area demarcated for quarrying.
- The depth of sand quarrying shall be restricted to 1 m from the theoretical bed.
   level.
- 5. The project proponent shall monitor the groundwater level during sand quarrying operations, a network of existing wells may be established around the sand quarrying area and new piezometers must be installed at all sand quarry sites. Monitoring of Ground Water Quality in the vicinity (one Km radius from the sand quarrying site) shall be carried out once in two months by engaging Groundwater Wing of the Water Resources Department.
- 6. An interdisciplinary team consisting of hydrogeologists, soil scientists, PWD engineers, TWAD Board engineers, and officials may be formed. It can conduct a scientific study to decide the distance or a range of distance that should be maintained between a sand quarry and infiltration and collection wells.
- To prevent dust pollution, suitable working methodology needs to be adopted taking wind direction into consideration.
- At no cost the impact of sand mining should interfere with the habitation and cultivation in the nearby area along the river bed.
- The mining area must be demarcated leaving at least 50m from the river embankment on either side.
- Contouring of the river bed has to be taken to ascertain the relative levels of sand in the river and also to suggest the depth of sand mining.
  - To ensure safety measures along the boundary of the quarry site, security
    guards are to be engaged during the entire period of mining operation.

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- 12. Wherever irrigation channels take off from the river within the boundary of the mining project, the mining operation should not affect the flow of water in the irrigation channels.
- 13. The entire sand mining operation should be as per the guidelines for sustainable sand mining issued in 2016 by the MoEF & CC, GOI, New Delhi.
- 14. If the agricultural activities (or) thick greeneries are being carried out around all the sand mining projects, the mining operation should not affect the greeneries (or) agricultural activities as well as it should not lead to depletion of water in the open wells located nearby.
- 15. The approach road and loading of the sand in the vehicles, movement of the vehicle should be planned and implemented in such a way that there is no noise and dust pollution in the nearby habitation. We recommend that PWD should maintain at least a safe distance of 300m from the habitations while planning the approach road and the loading operation. Wherever necessary and near the habitation in particular dust suppression measures to be adopted. While the loaded vehicle move on the road that should be fully covered with tarpaulin.
- 16. The pathway used by all machineries should be properly constructed and maintained by the PWD in order to avoid pollution.
- 17. The mining operation should be above the ground water table.
- 18. Adequate statutory manpower to be deployed for complying with the provisions to use heavy machineries as per Mines Safety Regulations (MCDR, 2017 &, MMR, 1961).
- The Proponent shall provide Provision of bio-tollet to be ensured and confirmed.
- 20. During the sand mining work, appropriate progressive mine closure activities must be implemented to restore the river bed to its original status for ensuring the free flow.
- 21. CER As committed the PP shall supply sand to nearby Government schools to fill up children's play area.

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#### ANNEXURE-I

- The proponent shall mandatorily appoint the required number of statutory
  officials and the competent persons in relevant to the proposed quarry size as per
  the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
- 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 / Penchayar Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
- 4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt, in the form of Short Term Permit (STP), Query license or any other name.
- 5. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- 6. The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The guilles formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.

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- 7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCS once in six months.
- 8. The Project Proponent shall carry out slope stability study by a reputed academic/research institution such as NIRM, IIT, Anna University for evaluating the safe slope angle if the proposed dump height is more than 30 meters. The slope stability report shall be submitted to concerned Regional office of MoEF&CC, Govt, of India, Chennai as well as SEIAA, Tamilnadu.
- 9. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPC8 once in 6 months.
- 10. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- II. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of Indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 12. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted in proper escapements as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.

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- 13. Noise and Vibration Related: (i) The Proponent shall carry out only the Controlled Blasting operation using NONEL shock tube Initiation system during daytime. Usage of other initiation systems such as detonating conditive, safety fuse, ordinary detonators, cord relays, should be avoided in the blasting operation. The mitigation measures for control of ground vibrations and to arrest fly rocks should be implemented meticulously under the supervision of statutory competent persons possessing the 1 / II Class Mines Manager / Foreman / Blaster certificate issued by the DGMS under MMR 1961, appointed in the quarry. No secondary blasting of boulders shall be carried out in any occasions and only the Rock Breakers (or) other suitable non-explosive techniques shall be adopted if such secondary breakage is required. The Project Proponent shall provide required number of the security sentries for guarding the danger zone of 500 m radius from the site of blasting to ensure that no human/animal is present within this danger zone and also no person is allowed to enter into (or) stay in the danger zone. during the blasting. (ii) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ill) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation. within the core zone.
- 14. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 15. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.

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- 17. The proponent shall ensure that the transportation of the quartied materials 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 quartied rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
- 20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
- 21. The Project Proponent shall comply with the provisions of the Mines Act, 1952.
  MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are 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.
- 23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS). Chemnai Region by the proponent without fail.

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- 24.The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 25. Prior clearance from Forestry & Wild Life Including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
- 26.All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 27. The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
- 28. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project information as shown in the Appendix—II of this minute.

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# Appendix -I List of Native Trees Suggested for Planting

No	Scientific Name	Tausii Name	Tamil Name
T	Aegis mermelos	Vilvam	- Andrews
2	Admanathera pavonina	Manjadi	rogeno.
3	Albizia labback	Vangai	Ammigriffeni Come
1	Albizia amera	Usil	e.At
5	Baultinie purpures	Mantharei	<b>ROTTOR</b>
6	Baulinnia racemena	Anthi	ALC:
7	Baultinia tomentos	Iruvathi	Bound
8	Buchanania avilloris	Kattuma	69.0df
9	Borassus flabellifer	Penai	LINE
10	Butac жоворогна	Merukkamaram	(DOSE SAND)
11	Bobatz cuibe	Bayu, Sevvilavu	BAN
12	Calophyllum imophyllum	Pennai	użac
13	<del> </del>	Serakondrei	spidering
14	Cassie fistula Cassie rozburgloù		Ortocomm
		Sengondrai	_
15	Chlorougion stantania	Purasamaram	rite rois
16	Cocklospermum religioenm	Kongu, Manjallavu	Gemis, usera Beig
17	Cordia dickotoma	Narovoli	Secol.
18	Cratevo adensorsi	Mavalingum.	eselectus.
19	Dillenia indica	Uva Uzha	2.0
20	Dillonia pontagyna	SiruUva, Sitruzha	Ap a.m
21	Disapyro sebenera	Karungali	المنتشوعة
22	Disapyro schloroxylor	Vaganai	#FEMAN
23	Ficus amplissima	Kalltehi	St Std
24	Hibiacus tiliacaou	Astropoovarasu	ADDITION.
25	Hardwickie binate	Aacha	gia
26	Hotoptelia integrifolia	Asyth	Spire 107th, Build
27	Lauries coronausfelics	Odhiam	- Subjective
28	Lagerstroemia speciose	Poo Marudhu	r needs
29	Lapisanthus tetraphylla	Neikottaimarem	GOO GENTLANE OF
30	Linsonia acidisaima	Vile marem	alien upo
31	Littes glutinos	Pisinpattai	enter deletion
32	Madhuca langifelia	Ширрей	- September 1
33	Manilkanı hexandra	UlakkaiPaniai	LINERS UTON
34	Minnusops elangi	Magizhamarem	- Adjusto
35	Mitregyna parvifolia	Kadambu	هــشي
36	Morinda pubuscens	Nerra	
37	Morinde citrifolia	Vetlat Nuna	Chicag par
3#	Plomix sylvestre	Eachet	#SF-oph
39	Pongamia pinnat	Pungam	1
	1	+ militure	<del>'</del>

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40	Premna mollissima	Munosi	(pána
41	Premna seretifolia	Naremunnai	SO CHARE
42	Premne tenentose	Malaipoovaram	name fiete
43	Prosopis cineres	Venni meram	esital apis
##	Рістосогриз тагопрінт	Vengai	federa.
45	Рістогретикня санызсты	Vennangu, Tada	-
46	Рістоеративни хубосатрина	Polavu	ried
47	Putinagina rozburgia	Keripala	# (A)
45	Selvedora persiça	Ugas Maram	2551 Mộ
49	Sapindas marginatus	Manipungan,	continues a
•	•	Sospulasi	<b>Countries</b>
50	Sarrecas resocus	Asoca	अंग्रास
51	Strebbus coper	Picey musem	பிராப் மறம்
52	Strychnos muzuomic	Yetti	aria .
53	Stryclores potatorima	Therthang Kottai	Optani Danise
54	<b>Syzygium силин</b> і	Naval	şrenii
55	Terminelia bellevic	Thandri	pi)
56	Terminalis arpens	Ven manudhu	Court negg
<b>5</b> 7	Toona ciliate	Sendhena vembu	rista Caiq
58	Thespesia populase	Puvarasu	TOLE
59	Watsuratrifoliale	vaisura	eskep
60	Wrightie tinctorie	Veppalai	Cairmo
61	Pithecollobium dulce	Kodokkapuli	<del>Confide</del>

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## Appendix -II

## Display Board (Size 6" x5" with Blue Background and White Letters)

othergrafte Comb Christ	ஆர் பார் நிக்கிய முறும் இரும் இரும் இரும் இரும் இரும் இரும் இரும் இரும் இரும் இரும் இரும் இரும் இரும் இரும் இர
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	алффін шен уфицизасту пріня напіватия Фиф Оненіня Сталівфія.
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gravánosan zámizna Gr	natural de prima. Constituir de
aphrághi gada ráidh gas Cuá Cumha Gustrái	சுக்கும் ஆக்கும் இடக்கிற (AM) அக்கிற இரிய முற்ற ஆத்தின் இறைக்கும். இது இந்த ஆந்து ஆன்ற இருந்து இருந்து இருந்து இருந்து இருந்து இருந்து இருந்து இருந்து இருந்து இருந்து இருந்து இரு
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securitation of the security confec	car Ordig ye Contrôls
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