State Expert Appraisal Committee (SEAC)

Minutes of 386th meeting of the State Expert Appraisal Committee (SEAC) held on 23.06.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 386-01 (File No: 9197/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 0.97.5 Ha at SF.Nos 82/28 of Pachapalayam Village, Sulur Taluk, Coimbatore District Tamil Nadu by Thiru. C.Palanisamy - for Environmental Clearance. (SIA/TN/MIN/424454/2023, Dated:01.04.2023)

The proposal was placed in 386th meeting of SEAC held on 23.06.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

- The Project Proponent, Thiru. C.Palanisamy has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 0.97.5 Ha at SF.Nos 82/2B of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu.
- 2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

File No	9197/2022 SIA/TN/MIN/424454/2023, Dated:01.04.2023		Category	B1 / 1(a)		
SI. No	Salient F	Features of the Proposal				
1.	Name of the Owner/Firm	:	Thiru.C.Palanisam S/o. Chinnaiya Go No.3/84, Karache Periya Kuylai Post Kinathukadavu Ta Coimbatore Distri	ounder ery t aluk		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)		Rough stone & Gr	ravel		
3.	S.F Nos. of the quarry site with area break-up	:	82/2B			
4.	Village in which situated	;	Pachapalayam			

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5.	Taluk in which situated	:	Sulur				
6.	District in which situated	:	Coimbatore				
7.	Extent of quarry (in ha.)	:	0.97.5Ha				
0	Latitude & Longitude of all corners	1	10° 52' 45.20" N to 10° 52' 51.80" N				
8.	8. of the quarry site		77º 02`55.16"E to	77º 02' 58.15" E			
9.	Topo Sheet No.	:	58- L/01				
10.	Type of mining	:	Opencast mechanized mining method				
	Life of Project	;	5years				
11.	Lease Period		5years				
	Mining Plan Period	:	5years				
	Mining Plan Details	:	As per approved	As modified by SEAC			
			Mining Plan	,			
			Rough Stone	Gravel			
	Geological Resources m³ (RoM)	:	1,67,616m ³	1,080m³			
12.		:	Rough Stone	Gravel			
	Minable Resources m³ (RoM)		28,565m³	*			
	10 10 11 2		Rough Stone	Gravel			
	Annual Peak Production in m ³	:	6875m³	•			
	Ultimate Depth in meters	;	42m (1m Gravel + 41m Rough Stone)				
13.	Depth of water table	:	70m in summer and 65m in rainy seasons				
14.	Man Power requirement per day:	:	13 Employees				
	Water requirement:		1.2KLD				
	1. Drinking water & Utilized		0.4 KLD				
15.	water	:					
	2. Dust suppression		0.5 KLD				
	3. Green belt		0.3KLD				
16.	Power requirement	<u>. </u>	TNEB				
10.	Tower requirement	:	22,848 litres of	HSD			
	Precise area communication		Rc.No:506/2020	/Mines dated 22.02.2022			
17.	approved by the Department of G&M.	:					
10	Mining Plan approved by		Rc.No:506/2020	/Mines dated 22.03.2022			
18.	Department of G&M.	:					
10	Department of G&M, Assistant		Rc.No:506/2020	/Mines dated 22.03.2022			
19.	Director 500m Cluster Letter	:					
20.	VAO Certificate Regarding Structures	Ι.	Latter dated:15 Of	3 2022			
ZŲ.	within 300m Radius	:	Letter dated:16.03.2022				

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21.	Project Cost (excluding EMP cost)	:	Rs. 32,80,000/-			
			1. 1. Iv.	30 years subject to the following upper limits.		
		;	Validity	Rough Stone	Gravel	
22.	EC Recommendation	:	Max Total RoM in m³	25,515m³	-	
!		:	Annual Max RoM in m³	6875m³	-	
		:	Max Depth in mtrs	42m (1m Gravel + 41m Rough Stone)		
23.	EMP cost (in Rs. Lakh).	:	Rs.85,18,334/-			
24.	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-			
25.	EIA report submitted on	:	Dated: 06.04.20	23	(a () -	
26.	ToR details	:	Lr.No.SEIAA-TN/F.NO.9197/SEAC/ToR- 1228/2022 Dated:18.08.2022			
27.	Public hearing details	:	Public hearing conducted on Dated:23.11.2022			

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the Annual peak production quantity of not exceeding 6875m³ with an ultimate depth of 42m as per the approved mining plan subject to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety. Chennai Region before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the

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

- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Hosur or Salem.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8) The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.

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- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 15) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 17) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18) 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.
- 19) Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs,

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- (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21) Within a period one year from the commencement of quarrying operations. the PP shall carry out the scientific studies to optimize the controlled blast design parameters for controlling the blast-induced ground vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 22)The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 23)No 'Deep-hole large diameter drilling and blasting' is permitted.
- 24) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

25)The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the

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provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

- 26) Within a period one year from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the slope stability of the benches and existing quarry wall, by involving anyone of these 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. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS. Chennai as a part of Environmental Compliance without any deviation.
- 27)The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 28) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite

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

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- 39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 40) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
- 41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 42) As accepted by the Project Proponent the CER cost of Rs. 5,00,000 and the amount shall be spent for the committed activities in the Panchayat Union Primary School, Thekaani, Sulthanpettai Union, Coimbatore District before obtaining CTO from TNPCB.

Agenda No: 386-02 (File No: 9239/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 4.84.0 Ha at SF.No. 509/1(Part) of Munnur Village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru. P.K. Subramani - For Environmental Clearance.(SIA/TN/MIN/ 426133/2023, Dated:15.04.2023)

The proposal was placed in 386th meeting of SEAC held on 23.06.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

- The Project Proponent, Thiru. P.K. Subramani has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 4.84.0 Ha at SF.No. 509/1(Part) of Munnur Village, Pugalur Taluk, Karur District, Tamil Nadu.
- 2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining

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

File	9239/2022			B1					
No	SIA/TN/MIN/ 426133/2023, Dated:15.04.2023		Category	1(a)					
SI. No	Salient F	Salient Features of the Propose							
		Τ	Thiru. P.K. Subra	ımani					
			S/o. Mr. Kaliyappan						
ī.	Name of the Owner/Firm		Mettukkudi						
	Name of the Owner, tam	.	VTC.Pavithram F	Post					
			Pugalur Taluk,						
			Karur-639002						
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & C	Gravel					
3.	S.F Nos. of the quarry site with area break-up	:	509/1(Part)						
4.	Village in which situated	:	Munnur						
5.	Taluk in which situated	:	Pugalur						
6.	District in which situated	:	: Karur						
7.	Extent of quarry (in ha.)	:	: 4.84.0 Ha						
 8.	Latitude & Longitude of all corners	.	10°59' 1.48"N to 10°59'8.74"N						
	of the quarry site	Ţ.	77°53'12.30"E to 77°53'21.29"E						
9.	Topo Sheet No.	<u> </u> :	58-F/13						
10.	Type of mining	:	Opencast semi-π	nechanized mining method					
	Life of Project	:	5years						
11.	Lease Period		5years						
	Mining Plan Period	<u> </u> :	5years						
			As per						
	Mining Plan Details	:	approved	As modified by SEAC					
		-	Mining Plan	Current					
12.	Geological Resources m³ (RoM)	:	Rough Stone 1211416m³	Gravel 12672m³					
14.			Rough Stone	Gravel					
	Minable Resources m³ (RoM)	:	324479m³	4060m³					
			Rough Stone	Gravel					
	Annual Peak Production in m ³	<u> </u> ;	75950m³	4060m³					
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	Ultimate Depth in meters	:	35m BGL as per	TOR		
13.	Depth of water table	:	65-55m			
14.	Man Power requirement per day:	:	33 Employees			
	Water requirement:		5.5 KLD			
15.	4. Drinking water		0.5 KLD			
١٥.	5. Utilized water	:	1.5 KLD 2.0 KLD			
	 6. Dust suppression 7. Green belt 		1.5KLD			
16.	Power requirement	_	TNEB		· · ·	
	Precise area communication		Rc.No.360/mine	es/2021, dated:12	2.04.2022	
17.		:				
18.	Mining Plan approved by Department of G&M.	:	Rc.No.360/mines/2021, dated:06.05.2022			
19.	Department of G&M, Deputy Director 500m Cluster Letter		Rc.No. 360/mines/2021, dated:10.05.202			
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated:09.05.2022			
21.	Project Cost (excluding EMP cost)	:	Rs.1,39,38,400/-			
•••		:	Validity	30 years subject to the following upper limits.		
				Rough Stone	Gravel	
22.	EC Recommendation	;	Max Total RoM in m³	324479m³	4060m³	
		;	Annual Max RoM in m³	75950m³	4060m³	
		:	Max Depth in mtrs	35m BGL as per ToR		
23.	EMP cost (in Rs. Lakh).	:	Rs.189.50 Lakhs			
24.	CER cost (in Rs. Lakh).	:	Rs.5,20,000/-			
25.	ElA report submitted on	:	Dated: 20.04.20	23		
26.	ToR details	:	: Lr.No:SEIAA-TN/F.No.9239/SEAC/ToR- 1196/2022, Dated: 14.07.2022.			
27.	Public hearing details	:	Public hearing co	onducted on Dat	ed:29.03.202	

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity not exceeding the Annual peak production of 75,950m³ of Rough stone and 4060m³ of Gravel by maintaining the ultimate pit depth of 37 m as per the approved mining plan 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.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy or Salem.
- 6) The PP shall ensure that the persons employed in the quarry undergo the initial/periodical medical examination particularly free silica test in the DGMS approved OHS Clinics/Hospitals.
- 7) The proponent shall install the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.

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- 8) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 9) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 10) 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.
- 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 12) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 16) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out

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- during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 17) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 18) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 19) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 20) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
- 21) Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 22) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 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

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- located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 23) As habitations/structures are situated at a distance of 500 to 600 m, within a period of six months from the commencement of quarrying operations, the PP shall carry out the scientific studies to optimize the controlled blast design parameters for controlling the blast-induced ground vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 24) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 25) No 'Deep-hole large diameter drilling and blasting' is permitted in this quarry.
- 26)The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 27) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 28) Within a period of six months from the commencement of quarrying operations, the PP shall carry out the scientific studies to evaluate the stability of the existing highwalls without benches and stipulate the mitigation fine asures

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for slope stability of proposed workings, by involving anyone of these 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. 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.

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

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- 35)The Project Proponent shall comply with the provisions of the Mines Act. 1952.

 MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 36)The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 37) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS). Chennai Region by the proponent without fail.
- 38) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 39)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.
- and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 41) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for

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- growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 42) 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.
- 43)As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 44) As accepted by the Project Proponent the CER cost of Rs. 5,20,000 and the amount shall be spent for the committed activities in the Government Higher Secondary School, K.Paramathi Village before obtaining CTO from TNPCB.

Agenda No: 386-03

(File No: 9915/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.64.50 Ha at SF.No. 1181, 1182/I & 1182/2 of Thamaraikulam Bit-I Village, Periyakulam Taluk, Theni District, Tamil Nadu by Thiru.R.G.Venkatesh - for Environmental Clearance. (SIA/TN/MIN/422395/2023, Dated:16.03.2023)

The proposal was placed in 386th meeting of SEAC held on 23.06.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

- 1. The Project Proponent, Thiru.R.G.Venkatesh has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 1.64.50 Ha at SF.No. 1181, 1182/1 & 1182/2 of Thamaraikulam Bit-I Village, Periyakulam Taluk, Theni District, Tamil Nadu.
- 2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

File	9915/2023		
No	SIA/TN/MIN/422395/2023,	Category	B2 / 1(a)
140	Dated:16.03.2023		

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SI.	Salient Features of the Proposal								
No			Thiru R G Venkatesh						
			S/o Govindan						
1.	Name of the Owner/Firm	:	No.62, Nehru Naga						
			Sakthi Theater, P.N.	·					
		<u>.</u>	Mettur, Salem Distri	ct-636 402					
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limeston e)	:	Rough stone & Gravel Quarry						
3.	S.F Nos. of the quarry site with area break-up	:	1181, 1182/1 & 1182/2						
4.	Village in which situated	:	Thamaraikulam Bit-	t					
5.	Taluk in which situated	:	Periyakulam						
6.	District in which situated	:	Theni						
7.	Extent of quarry (in ha.)	:	1.64.50Ha						
8.	Latitude & Longitude of all corners of the quarry site	:	10°05'11.21"N to 10°05'18.55"N 77°33'02.13"E to 77°33'08.83"E						
9.	Topo Sheet No.	:							
10.	Type of mining	:							
	Life of Project	:	10 years						
11.	Lease Period		10 years						
	Mining Plan Period	:	5 years						
	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC					
	Geological Resources m ³	Γ.	Rough stone	Gravel					
	(RoM)	ľ	4,10,625m³	49,275m³					
12.	Minable Resources m ³		Rough stone	Gravel					
- 	(RoM)	:	91,770m³	33,258m³					
	Annual Peak Production in		Rough stone	Gravel					
	m³	:	18,560m³ 14,355m³						
	Ultimate Depth in meters	:	: 28m BGL						
13.	Depth of water table	:	50m BGL						
14.	Man Power requirement per day:	;	21 Employees						

	Water requirement:		2.0 KLD						
١,-	Drinking water		1.0 KLD						
15.	2. Dust suppression	:	0.5 KLD						
	3. Green belt		0.5 KLD						
16.	Pouror roquiroment		TNEB						
10.	Power requirement	:	78,959 Litres of HSD						
	Precise area communication		Na.Ka.No.712/Kani	mam/2022	2, Dated: 19.01.2023				
17.	approved by the Assistant	١.,							
'''	Director, Department of	•							
	G&M.								
	Mining Plan approved by		Roc.No.712/Mines/2022, Dated: 30.01.2023						
18.	Assistant Director,	;							
	Department of G&M.								
	Department of G&M,		Roc.No.712/Mines/	2022, Date	ed: 09.02.2023				
19.	Assistant Director, 500m	:							
	Cluster Letter								
	VAO Certificate Regarding								
20.	Structures within 300m	:	: Letter Dated: 18.06.2022						
	Radius								
21.	Project Cost (excluding EMP		Rs. 54,37,000						
	cost)								
	,			30 years subject to the following					
		:	Validity	upper limits.					
			•	Rough	Gravel				
	•			Stone					
22.	EC Recommendation		Max Total RoM	01 770-3	22.2503				
22.	EC Recommendation	:	in m³	91,770m ³	33,258m³				
			Annual Max RoM	18,560					
		:	in m ³	m ³	14,355m³				
		Н	Max Depth in	28m BGL					
		:	mtrs 2011 BGL						
22	CAAD and Co. Do. 1-11.		· · · · · · · · · · · · · · · · · · ·						
23.	EMP cost (in Rs. Lakh).	:	Ks. 22,86,290	Rs. 22,86,290					
24.	CER cost (in Rs. Lakh).		Rs. 5,00,000						
	<u> </u>								

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity not exceeding the Annual peak production of 18,560m³ of Rough stone and 14,355m³ of Gravel by maintaining the Ultimate pit depth of 28 m as

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per the approved mining plan subject to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy (or) Salem.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8) The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall

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- furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 15) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 17) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with denge/moderate

- canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18) Taller/one year old saplings raised in appropriate size of bags (preferably 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.
- 19) Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21) Within a period one year from the commencement of quarrying operations, the PP shall carry out the scientific studies to optimize the controlled blast design parameters for controlling the blast-induced ground vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

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- 22) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 23) Since the Vaigai Dam Reservior is located at a distance of 2.25 km, no 'Deephole large diameter drilling and blasting' is permitted.
- 24) The PP shall carry out the monitoring of the blast-induced ground & air vibration levels at the Vaigai Dam structure once in a month and a copy of such monitoring report certified by the Mine Manager shall be sent to the AD (Mines), DEE/TNPCB, the concerned EE/PWD-Vaigai Dam, and the SEIAA.
- 25)The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 26)The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 27) During the 4th year of quarrying operations, the PP shall carry out the scientific studies to assess the slope stability of the benches and existing quarry wall before extending the working beyond the ultimate depth, by involving anyone of these 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. 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.
- 28) During the 2nd year of quarrying operations, the PP shall carry out the scientific studies to assess the hydrogeological status of the area and impacts due to the

quarrying operations, by involving anyone of these 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. 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.

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

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- 35)The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 36)The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 37) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS). Chennai Region by the proponent without fail.
- 38)The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 39)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.
- 40) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 41) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for

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growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

42) 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.

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

44) As accepted by the Project Proponent the CER cost of Rs. 5,00,000 and Rs.2,00,000 shall be spent for the committed activities in the Government Higher Secondary School, Thamaraikulam Village and Rs.3,00,000 shall be spent for conservation measures for Kodaikanal Wikd Life Sanctuary through the DFO, Kodaikanal, before obtaining CTO from TNPCB.

Agenda No: 386-04

(File No: 8869/2021)

Proposed Rough Stone and Gravel quarry lease area over an extent of 1.56.0 Ha at S.F.Nos. 90/4, 91/2D (P) & 111/3 of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru. T. Pushparaj - For Environmental Clearance. (SIA/TN/MIN/424287/2023, Dated: 31.03.2023)

The proposal was placed for appraisal in this 386th meeting of SEAC held on 23.06.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

- 1. The project proponent, Thiru. T. Pushparaj has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 1.56.0 Ha at S.F.Nos. 90/4, 91/2D (P) & 111/3 of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu.
- 2. The project/activity is covered under category "B" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.

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- 3. ToR issued vide Lr No.SEIAA-TN/F.No.8869/ToR-1111/2021 Dated: 23.03.2022.
- 4. Public hearing conducted on 23.11.2022.

File	8869 / 2021		Category		B / 1(a	\		
No	00037, 2021		Caregory			, 		
SI.	Salient Fe	atui	res of the Pro	posal				
No 1.	Name of the Owner/Firm	:	Thiru. T. Pushparaj, S/o. R. Thangamuthu, No.7/6A, Vayakkattu Thottam, Karacheri, Chettipalayam Via, Coimbatore District - 641 201.					
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stor	ne and Gi	avel			
3.	S.F Nos. of the quarry site with area break-up	:	90/4, 91/2D (P) & 111/3					
4.	Village in which situated	:	Pachapalay	am				
5.	Taluk in which situated	:	Sulur					
6.	District in which situated	:	Coimbatore					
7.	Extent of quarry (in ha.)	:	1.56.0					
8.	Latitude & Longitude of all corners of the quarry site	:	10°52'45.44"N to 10°52'50.23"N 77°02'33.54"E to 77°02'41.08"E					
9.	Topo Sheet No.	:	58 – F/01					
10.	Type of mining	:	Opencast Mechanized Mining					
	Life of Project	:	5 years					
11.,	Lease Period	:	5 years					
	Mining Plan Period	:	5 years					
	Mining Plan Details	:	As per appa Mining Plan		As modified by SEAC			
	Geological Resources m³ (RoM)		Rough Stone	Gravel	Rough Stone	Gravel		
12.	Ocological Resources III (NOIM)		4,99,221 m³	19,746 m³	4,99,221 m³	19.746 m³		
	Minable Resources m³ (RoM)		Rough Stone	Gravel	Rough Stone	Gravel		
		79,460 m³	14,054 m³	79,460 m³	14,054 m³			

	Annual Peak Production in m ³		Rough Stone	Gravel	Roug	-	Gravel
	Annual Peak Production in m ²	:	16,790	5092	16,79	90	5092 m ³
		ļ	m³	m³	m³		
	Ultimate Depth in meters	:	47m bgl		42m	bgl	
13.	Depth of water table	:	70m-65m	bgl			
14.	Man Power requirement per day:	:	15 Nos.				
	Water requirement:		3.0 KLD				
	 Drinking water 		1.5 KLD				
15.	Utilized water	:	-				
	Dust suppression		0.5 KLD				
	4. Green belt		1.0 KLD				
16.	Power requirement	:	65,908 Lite	ers of H	D		
	Precise area communication		Na.Ka.No.	811/Kan	imam/2	021, 1	Dated:
17.	approved by Assistant Director, Department of G&M.	:	21.09.2021				
	Mining Plan approved by		Rc.No.811/Mines/2021 Dated:				1.10.2021
18.	Assistant Director, Department of G&M.	:					
19.	Department of G&M, Assistant Director 500m Cluster Letter	:	Rc.No.811/Mines/2021 Dated: 21.10.2021				
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 04.10.2021				
21.	Project Cost (excluding EMP cost)	:	Rs. 50,46,000/-				
				30 years subject to the			ect to the
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	f	following upper limits.		
		:	Validity	1	Rough	C	ام.
				2	tone	Gra	vei
22	EC Recommendation		Max Total	7	76,500	14.0	954 m³
22		:	RoM in m ³	r	n³	14,0	194 m²
			Annual Ma	x 1	6,790	500	2 m³
		•	RoM in m ³	l	n³	309	Z 111 ²
		:	Max Depth mtrs	in	12m bgl		
23	EMP cost (in Re Tabh)	:	Capital Cost – Rs. 24,06,200/-				
23.	3. EMP cost (in Rs. Lakh).		Recurring Cost - Rs. 13,14,870/-				
24	CER cost (in Rs. Lakh).	;	Rs. 5,00,00	00/-			-4-111

Based on the presentation and documents furnished by the project proponent, SEAC considering the safety aspects, the last bench in XY-AB section shall be removed & decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 16700m³ of Rough Stone and 5092 m³ of gravel by restricting the ultimate depth of mining upto 42m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O., 1807(E) dated 12.04.2022.
- 2. The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 4. The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5. Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy (or) Salem.
- 6. The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the Matural stream.

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- Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12. The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14. Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 15. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.

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- 17. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18. Taller/one year old saplings raised in appropriate size of bags (preferably 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.
- 19. Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 20. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21. Since few structures are located within 300 m from the lease boundary, within a period of six months from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the blast-induced ground vibrations produced from the quarry blasting and to suggest the mitigation measures for the control of ground / air vibrations & fly rock caused due to blasting, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal. 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.
- 22. The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 23. If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 24. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 25. The PP shall carry out the scientific studies to assess the slope stability of the existing quarry wall and evaluate the mitigation measures for the stability of the proposed workings before the commencement of the operation of the quarry as the existing depth of the quarry already touched 30 m, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, Division of Geotechnical Engineering/IIT-Madras, NIT-Dept of Mining Engg, Surathkal. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 26. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 27. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.

- 28. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 30. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34. The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District

- Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 37. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 38. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 39. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 40. The mining lease holders shall, after ceasing mining operations, undertake 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.
- 41. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 42. As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Government Higher Secondary School, Arasampalayam, Coimbatore District before obtaining CTO from TNPCB

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Agenda No: 386-05

(File No: 9058/2022)

Proposed Rough Stone and Gravel quarry lease area over an extent of 1.25.5 Ha at S.F.Nos. 85/2A1B & 85/2A2 of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Tmt P. Deepa - For Environmental Clearance. (SIA/TN/MIN/424130/2023, Dated: 30.03.2023)

The proposal was placed for appraisal in this 386th meeting of SEAC held on 23.06.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

- The project proponent, Tmt P. Deepa has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 1.25.5 Ha at S.F.Nos. 85/2A1B & 85/2A2 of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu.
- 2. The project/activity is covered under category "B" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
- 3. ToR issued vide Lr No.SEIAA-TN/F.No.9058/ToR-1181/2022 Dated: 13.06.2022.
- 4. Public hearing conducted on 23.11.2022.

Fi	le No	9058 / 2022		Category	B / I(a)					
SI. No		Salient Features of the Proposal								
1.	Name of the Owner/Firm		:	Tmt. P. Deepa, W/o. A. Jayakuma No.1/29, Thottiyar Poosaripatti, Pollac Coimbatore Distric	kadu. hi,					
2.		arrying (Ordinary I/Granite/Limeston	:	Rough Stone and Gravel						
3.	S.F Nos. of with area t	the quarry site preak-up	:	85/2A1B & 85/2A2						
4.	Village in v	vhich situated	:	Pachapalayam						
5.	Taluk in w	hich situated	:	Sulur						
6.	District in v	which situated	:	Coimbatore						
7.	Extent of c	uarry (in ha.)	:	1.25.5						

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8.	Latitude & Longitude of all	Ī.	10°52'34.58"N	to 10°52'41	.07"N				
о.	corners of the quarry site	:	77°02'30.55"E to 77°02'34.71"E						
9.	Topo Sheet No.	:	58 - F/01						
10.	Type of mining	:	Opencast Mechanized Mining						
	Life of Project	:	5 years						
11.	Lease Period	:	5 years						
	Mining Plan Period	:	5 years						
	Mining Plan Details	:	As per approv Plan	ed Mining	As modified t	y SEAC			
	Geological Resources m ³	:	Rough Stone	Gravel	Rough Stone	Gravel			
	(RoM)		3,81,200 m ³	8800 m³	3,81,200 m ³	8800 m ³			
12.	Minable Resources m³ (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel			
	, ,		78,940 m³	4928 m³	78,940 m³	4928 m³			
	Annual Peak Production in m ³	:	Rough Stone	Gravel	Rough Stone	Gravel			
			17,500 m ³	-	17,500 m³	-			
	Ultimate Depth in meters	:	32m bgl	•	32m bgi	•			
13.	Depth of water table	:	70m-65m bgl		-				
14.	Man Power requirement per day:	:	15 Nos.						
	Water requirement:		1.7 KLD						
	Drinking water		0.3 KLD						
15.	2. Utilized water	:	-						
	3. Dust suppression		1.0 KLD						
	4. Green belt		0.4 KLD						
16.	Power requirement	:	63,972 Liters of						
17.	Precise area communication approved by Assistant Director, Department of G&M.	:	Na.Ka.No.310	/Kanimam/2	2021, Dated: 11.	11.2021			
18.	Mining Plan approved by Assistant Director, Department of G&M.	:	Rc.No.310/Mi	nes/2021 Da	ated: 07.01.202	2			
19.	Department of G&M, Assistant Director 500m Cluster Letter	:	Rc.No.310/Mi	nes/2021 Da	ated: 07.01.202	2			

20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 01.12.2021				
21.	Project Cost (excluding EMP cost)	:	Rs. 43,57,000/-				
	EC Recommendation	:	Validity	30 years subject to the following upper limits.			
			,	Rough Stone	Gravel		
22.		:	Max Total RoM in m³	73,245 m³	4928 m³		
		:	Annual Max RoM in m³	17,500 m³	-		
		:	Max Depth in mtrs	32m bgl			
23.	EMP cost (in Rs. Lakh).	:	Capital Cost - Rs. 18,18,446/- Recurring Cost - Rs. 11,58,347/-				
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-				

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the the annual peak production capacity not exceeding 17,500 m³ of Rough Stone with restricting the ultimate depth of mining upto 32m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O., 1807(E) dated 12.04.2022.
- 2. The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.

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- 4. The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5. Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy (or) Salem.
- 6. The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 9. The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12. The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.

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- 13. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14. Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 15. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 17. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18. Taller/one year old saplings raised in appropriate size of bags (preferably 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.
- 19. Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.

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- 20. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21. Since few structures are located closer to the lease boundary, within a period of six months from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the blast-induced ground vibrations produced from the quarry blasting and to suggest the mitigation measures for the control of ground / air vibrations & fly rock caused due to blasting, by involving anyone of these 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. 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.
- 22. The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 23. If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 24. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 25. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall before starting the operation of the quarry, since the depth of the quarry already above 30 m, by involving any of the reputed Research and

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

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

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- 32. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34. The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 37. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 38. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 39. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due

to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

- 40. The mining lease holders shall, after ceasing mining operations, undertake 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.
- 41. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 42. As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Government Higher Secondary School, Arasampalayam, Coimbatore District within six months from the date of execution of lease.

Agenda No: 386-06

(File No: 9065/2022)

Proposed Rough Stone and Gravel quarry lease area over an extent of 3.24.30 Ha at S.F.Nos. 846/1B, 846/2, 846/3, 846/4 & 845/2 of Nathikudi Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. V. Sakthivel - For Environmental Clearance. (SIA/TN/MIN/425122/2023, Dated: 11.04.2023)

The proposal was placed for appraisal in this 386th meeting of SEAC held on 23.06.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

- 1. The project proponent, Thiru. V. Sakthivel has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 3.24.30 Ha at S.F.Nos. 846/1B, 846/2, 846/3, 846/4 & 845/2 of Nathikudi Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu.
- 2. The project/activity is covered under category "B" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
- 3. ToR No.SEIAA-TN/F.No.9065/SEAC/ToR-1175/2022, issued vide Lr Dated:14.06.2022.
- 4. Public hearing conducted on 02.02.2023.

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	File No	9065 / 202	2	Cate	gory	1-1-1-1	B 1 /	1 (a)			
SI. N o	Salient Features of the Proposal										
1.	1. Name of the Owner/Firm			S/o. Vee 1/231, N Acham ² Srivillipu	Thiru. V. Sakthivel. S/o. Veerapa Thevar. 1/231, Nadu Street. Acham Thavilthan. Srivilliputhur Taluk. Viruthunagar District - 626 137.						
2.	Type of qua (Ordinary Stone/Sand, mestone)		:	Rough Stone and Gravel							
3.	S.F Nos. of site with are	the quarry ea break-up	:	846/1B,	846/2, 8	46/3, 84	16/4 & 84 <u>5</u>	5/2			
4.	Village in w	hich	;	Nathiku	di						
5.	Taluk in wh	nich	:	Vembak	ottai						
6.	District in w situated	hich	:	Virudhu	nagar						
7.	Extent of que ha.)	uarry (in	:	3.24.30							
8.	Latitude & I of all corne quarry site	_	:		2"N to 9 3.6"E to						
9.	Topo Sheet	No.	:	58 - G/1	1				,		
10.	Type of min	ning	:	Openca	st Semi M	lechaniz	ed Mining				
	Life of Proje	ect	:	10 years							
11.	Lease Perio	d	: 10 years								
	Mining Plan	Period	:	10 years							
12.	Mining Plar		:	As per a Mining	pproved Plan		As modif	ied by SE	AC		
14.	Geological m³ (RoM)	Resources		Rough Stone	Grave 1	Earth	Rough Stone	Gravel	Eart h		

			10.30. 050 m ³	1,03,0 05 m ³	68,6 70 m³	10,30,0 50 m ³	1,03,0 05 m³	68,6 70 m³
	Minable Resources m³		Rough Stone	Grave I	Earth	Rough Stone	Gravel	Eart h
	(RoM)	:	2,60,1 40 m³	52,19 2.5 m ³	34,7 95 m³	2,60,14 0 m ³	52,19 2.5 m³	34,7 95 m³
	Annual Peak		Rough Stone	Grave 1	Earth	Rough Stone	Gravel	Eart h
	Production in m ³		35277. 5 m³	11,802 m³	7868 m³	35277. 5 m³	11,802 m³	786 8 m³
	Ultimate Depth in meters	;	35m bgl 35m bgl					
13.	Depth of water table	:	80m-90r	n BGL				
14.	Man Power requirement per day:	:	11 Nos.					
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt		10.0 KLD 1.0 KLD - 8.0 KLD 1.0 KLD)				
16.	Power requirement	:	63,972 L	iters of h	I SD			
17.	Precise area communication approved by Assistant Director, Department of G&M.		Na.Ka. N 11.10.202		323/202	1-Kanimar	n, Dated:	
18.	Mining Plan approved by Assistant Director, Department of G&M.	:	Roc. No	: KV1/32	3/2021,	Dated: 11.	11.2021	
19.	Department of G&M, Assistant Director 500m Cluster Letter	:	Roc. No	: KV1/32	3/2021,	Dated: 11.	11.2021	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter da	ited 21.10).2021			
21.	Project Cost (excluding EMP cost)	:	Rs. 2,99,	29,040/-			\bigcap	

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	22. EC Recommendation		VI-1: dis	30 years subject to the following upper limits.			
		:	Validity	Rough Stone	Gravel	Earth	
22			Max Total RoM in	2,60,1	52,192.	34,795	
22.		:	m³	40 m³	5 m³	m³	
		:	Annual Max RoM	35277.	11,802	7868 m³	
			in m³	5 m³	m³	7000 1112	
		:	Max Depth in mtrs	35m bgl			
23.	EMP cost (in Rs. Lakh).	:	Capital Cost - Rs. 23.45 lakhs Recurring Cost - Rs. 14.84 lakhs				
24.	CER cost (in Rs. Lakh).	:	Rs. 6,00,000/-				

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 35277.5 m³ of Rough Stone; 11,802 m³ of gravel and 7868 m³ of earth with restricting the ultimate depth of mining upto 35m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2. The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3. Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy (or) Pandalgudi.
- 4. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.

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- 5. The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 6. The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 9. The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12. The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.

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- 14. Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 15. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 17. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18. Taller/one year old saplings raised in appropriate size of bags (preferably 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.
- 19. Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 20. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground

- vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21. Since few structures are located within 300 m from the lease boundary, within a period of six months from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the blast-induced ground vibrations produced from the quarry blasting and to suggest the mitigation measures for the control of ground / air vibrations & fly rock caused due to blasting, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal. 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.
- 22. The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 23. If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 24. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 25. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 26. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this

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- work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 27. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 28. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 29. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 30. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 31. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 32. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 33. The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are 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.

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- 34. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS). Chennai Region by the proponent without fail.
- 35. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 36.All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 37. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 38. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 39. 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.
- 40. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

41. As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Government Higher Secondary School, Nathikudi , Viruthunagar District within a period of six months from the date of execution of lease.

Agenda No: 386-07 (File No: 9916/2023)

Proposed Rough Stone and Gravel quarry lease area over an extent of 1.41.96 Ha at S.F.Nos. 138/2A (P), 138/3A (P) & 138/4 (P) of Kurumbapalayam Village, Sathyamangalam Taluk, Erode District, Tamil Nadu by Thiru. C. Raja - For Environmental Clearance. (SIA/TN/MIN/422261/2023, Dated: 16.03.2023)

The proposal was placed for appraisal in this 386th meeting of SEAC held on 23.06.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

- The project proponent, Thiru. C. Raja has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 1.41.96 Ha at S.F.Nos. 138/2A (P), 138/3A (P) & 138/4 (P) of Kurumbapalayam Village, Sathyamangalam Taluk, Erode 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.

F	ile No	9916 / 2023		Category	B2 / 1 (a)		
SI. No		Salient Features of the Proposal					
1.	Name of the	ne Owner/Firm	:	Thiru. C. Raja, No.25/12, Jai Nagar, Thanneer Panthal, Peelamedu, Coimbatore District - 641 004.			
2.	1	quarrying (Ordinary : Rough Stone and Gravel			d Gravel		
3.	S.F Nos. of area break-	the quarry site with up	:	138/2A (P), 138/3A (P) & 138/4 (P)			
4.	Village in v	vhich situated	-:	: Kurumbapalayam /			

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5.	Taluk in which situated	:	Sathyaman	Sathyamangalam					
6.	District in which situated	:	Erode						
7.	Extent of quarry (in ha.)	:	1.41.96						
8.	Latitude & Longitude of all corners of the quarry site	:			25'41.55"N 210'06.08"E				
9.	Topo Sheet No.	:	58-E/03	77°10'01.38"E to 77°10'06.08"E 58-E/03					
10.	Type of mining	:	Opencast A	/lechanize	ed Mining				
	Life of Project	:	5 years						
11.	Lease Period	:	5 years						
	Mining Plan Period	:	5 years						
	Mining Plan Details	As per approved				by SEAC			
	Geological Resources m³ (RoM)		Rough Stone	Gravel	Rough Stone	Gravel			
		:	4,62,710 m ³ 26894 m ³ of Weathred Rock	13,179 m³	4,62,710 m ³ 26894 m ³ of Weathred Rock	13,179 m³			
	Minable Resources m³ (RoM)		Rough Stone	Gravel	Rough Stone	Gravel			
12.		:	1,19,897 m³ (15,780m3 of Weathered Rock)	7230 m³	1,19,897 m³ (15,780m3 of Weathered Rock)	7230 m³			
			Rough Stone	Gravel	Rough Stone	Gravel			
	Annual Peak Production in m ³	:	26,080 m³ (9492m3 of Weathered Rock)	4526 m3	26,080 m³ (9492m3 of Weathered Rock)	4526 m3			
	Ultimate Depth in meters	:	40m bgl		40m bgl				
13.	Depth of water table	:	70m-65m	70m-65m bgl					
14.	Man Power requirement per day:	:	18 Nos.						

	Water requirement:	Γ	1.2 KLD				
	 Drinking water 		0.3 KLD				
15		:	-				
	3. Dust suppression		0.5 KLD				
	4. Green belt		0.4 KLD				
16	Power requirement	:	99,760 Liters of	HSD			
17	Precise area communication approved by Deputy Director,		Na.Ka.7837/Ka	nimam/201	18, Dated	:	
	Department of G&M.	ľ	09.02.2023				
18	Mining Plan approved by Deputy Director, Department of G&M.	:	R.c. No. 7387/N	 Mines/2018	, Dated:	21.02.2023	
19	Department of G&M, Deputy	 -	: R.c. No. 7387/Mines/2018, Dated: 21.02.			 21 02 2023	
	Director 500m Cluster Letter	Ľ					
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 13.02.2023				
21	Project Cost (excluding EMP cost)	:	Rs. 37,90,000/-	/-			
		-	30 years subject to the				
		:	Validity	following upper limits.			
			Validity	Rough Stone	Gravel	Weathered Rock	
22	EC Recommendation		Max Total	1,19,897	7230	15 700 7	
		Ŀ	RoM in m ³	m³	m³	15, 780 m3	
			Annual Max	26,080	4526	9492m3	
		Ŀ	RoM in m ³	m³	m3	9492m3	
		:	Max Depth in mtrs	40m bgl			
2:	EMP cost (in Rs. Lakh).		Capital Cost – R	s. 22,21,29	2/-		
	Lakiy.		Recurring Cost -	Rs. 13,99,	896/-		
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-				

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the the annual peak production capacity of not exceeding 26,080 m³ of Rough Stone; 4526 m³ of gravel and 9492m³ of Weathered Rock with maintaining an ultimate depth of mining upto 40m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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- The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2. The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 4. The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5. Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Salem (or) Trichy.
- 6. The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.

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- 9. The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12. The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14. Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 15. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 17. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of

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- small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18. Taller/one year old saplings raised in appropriate size of bags (preferably 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.
- 19. Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 20. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21. Since few structures are located within 300 m from the lease boundary, within a period of six months from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the blast-induced ground vibrations produced from the quarry blasting and to suggest the mitigation measures for the control of ground / air vibrations & fly rock caused due to blasting, by involving anyone of these 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 Dept of Mining Engg-Anna University, Chennai, A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

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- 22. The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 23. No 'Deep-hole large diameter drilling and blasting' is permitted unless a special permission is obtained by the PP from DMS-DGMS. Chennai Region.
- 24. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 25. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 26. The PP shall carry out the scientific studies to assess the slope stability of the proposed quarry working and existing quarry wall before starting the operation of the quarry, since the depth of the quarry already above 30 m, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 27. The PP shall implement the following Special Mitigation Measures in order to protect the Reserve Forest located at a distance of 454 m from the lease boundary:
 - i. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two rows) along the

boundary of the mine lease area before obtaining the CTO from the TNPCB.

- ii. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
- iii. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
- iv. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
- v. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
- vi. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
- vii. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
- viii. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.
 - ix. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of

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

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- 29. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 30.Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 31. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 32. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 33. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 34. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 35. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 36. The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure

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- and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 37. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS). Chennai Region by the proponent without fail.
- 38. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 39. 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.
- 40. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 41. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 42. 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.

- 43. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 44. As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Primary School. Panayampalli, Erode District within a period of six months before the execution of lease.

Agenda No: 386 - 08

(File No: 8478/2023)

Proposed Rough Stone Quarry lease over an extent of 2.91.5Ha at S.F.No.55/1A(Part), 55/3(Part) & 58 of Kavundampalayam Village, Gobichettipalayam Taluk, Erode District, Tamil Nadu by Tmt.K.Indirani - For Environmental Clearance. (SIA/TN/MIN/425141/2023, dt:06.04.2023)

The proposal was placed in the 386th SEAC meeting held on 23.06.2023. The details of the proposed project are given in the website (parivesh.nic.in).

The SEAC noted the following:

- The project proponent, Tmt.K.Indirani has applied for Environmental Clearance along with EIA/ EMP report with minutes of public hearing for the Rough Stone Quarry lease over an extent of 2.91.5Ha at S.F.No.55/1A(Part), 55/3(Part) & 58 of Kavundampalayam Village, Gobichettipalayam Taluk, Erode District, Tamil Nadu.
- 2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
- 3. ToR vide. Lr No.SEIAA-TN/F.No.8478/SEAC/ToR-1273/2021 Dated: 08.10.2022.
- 4. Public Hearing conducted on 07.02.2023.
- 5. The precise area communication was issued for the period of 5 years. The approved mining plan& as per ToR issued for the period of 1st five years & production should not exceed 2,98,200m3 of Rough Stone & 2006 m³ of Topsoil. The annual peak production is 80400 m³ of Rough Stone (1st Year) & 2006m³ of Topsoil (1st Year). The depth of mining is 41m (16m AGL + 25m BGL).

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SI. No	Salient F	eat	ures of the Proposal		
1.	Name of the Owner/Firm	:	Tmt.K.Indirani W/o.K.Kuppuraj No.16, Kongu Nag T.N.Palayam Gobichettipalayan Erode-638506		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	:	Rough Stone		
3.	S.F Nos. of the quarry site with area break-up	:	55/1A(Part), 55/3(Part) & 58	
4.	Village in which situated	:	Kavundampalayam		
5.	Taluk in which situated	:	Gobichettipalayam		
6.	District in which situated	:	Erode		
7.	Extent of quarry (in ha.)	:	2.91.5Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	11°30'59.07"N to 11°31'08.46"N 77°22'22.79"E to 77°22'31.18"E		
9.	Topo Sheet No.	:	58- E/06		
10.	Type of mining	:	Opencast Mechani	zed Mining	
	Life of Project	:	5 years		
11.	Lease Period		5 years		
	Mining Plan Period	:	5 years		
	Mining Plan Details	:	As per approved N	lining Plan	
5. 6. 7. 8. 9. 10.	Geological Resources m³ (RoM)	:	Rough Stone in	Topsoil in m ³	
12	Minophia Pasauras 2		1162270m³	5560m³	
12.	Mineable Resources m ³ (RoM)	:	Rough Stone 404470m³	Topsoil 2006m ³	
	Annual Peak Production in	•	Rough Stone	Topsoil	
	m3	:	89185m³	2006m ³	
	Ultimate Depth in meters	:	56m (16m AGL + 4	<u> </u>	
13.	Depth of water table	:	70m-65m BGL		

14.	Man Power requirement per	:	40 Nos.			
	day:	١.				
	Water requirement:		3.5 KLD			
	Drinking water	-	1.0 KLD			
15.	2. Utilized water	:	1.5 KLD			
	3. Dust suppression		1.0 KLD		ļ	
	4. Green belt					
	Power requirement	 				
16.	a. Domestic Purpose		TNEB			
	b. Industrial Purpose		323568 Liters of HS	D		
	Precise area communication		Rc.No.23891/2013/2			
			RC.140.23031/2013/7	· · · · ·		
17.	approved by the Deputy	:	dt:30.12.2020			
	Director, Department of					
	G&M.		Rc.No.23891/2013/2			
18.	Mining Plan approved by		KC.NO.23891/2013/	۸-۱,		
10.	Deputy Director,	:	dt:01.02.2021			
	Department of G&M.	₩	D N 02001/2012/			
19.	500m radius Cluster Letter		Rc.No.23891/2013/	X-1,		
19.	by Deputy Director.		dt: 25.06.2021			
	Department of G&M	<u> </u>				
20	VAO Certificate Regarding		Letter dt: 27.01.202	1		
20.	Structures within 300m					
	Radius	\perp				
21.	Project Cost (excluding EMP	1:	Rs.69.97 Lakh			
		Ŀ				
			For the Five Years p	eriod as p	er	
		.	approved mining pl	lan & ToR		
		1.		Rough	Topsoil	
				Stone	10030	
22.	EC Recommendation		Max Total RoM	2,98,20	2006	
22.		:	in m³	0m3	m³	
			Annual Max RoM	80400	2006	
		:	in m ³	m³	m³	
	·		Max Depth in	41m (16n	n AGL +	
		:	mtrs	25m BGI		
_		+	Rs. 170.24 Lakhs/ 5	<u> </u>	<u> </u>	
23.	EMP cost (in Rs. Lakh).	:		<i>-</i>		
<u> </u>		+	Rs.5 Lakhs	<u> </u>		
24.	CER cost (in Rs. Lakh).	:	1300			
24.	CENT COSE (III INS. EURIN).	<u> </u>				

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 80400 m³of Rough Stone by restricting the ultimate depth of mining upto 41m only (16m AGL + 25m BGL) and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- The prior Environmental Clearance granted for this mining project shall be valid
 for the project life including production value as laid down in the mining plan
 approved and renewed by competent authority, from time to time, subject to
 a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification
 S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety. Chennai Region before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Salem (or) Trichy.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.

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- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8) The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 15) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.

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- 16) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 17) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18) Taller/one year old saplings raised in appropriate size of bags (preferably 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.
- 19) Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21) Since few structures/temple are located within 300 m from the lease boundary, within a period of six months from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the blast-induced ground vibrations produced from the quarry blasting and to suggest the mitigation measures for the control of ground / air vibrations & fly rock caused due to

blasting, by involving anyone of these 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 Dept of Mining Engg-Anna University, Chennai. 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.

- 22) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 23) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 24) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 25)The PP shall carry out the scientific studies to assess the slope stability of the existing quarry wall without benches and evaluate the mitigation measures for the stability of proposed working, by involving any one of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS-DGMS, Chennai Region as a part of Environmental Compliance without any deviation. If applicable.
- 26)The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

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- 27) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 28)Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32)To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34) The project proponent shall ensure that the provisions of the MMDR Act. 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and

- the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35)The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS). Chennai Region by the proponent without fail.
- 36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 37)All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
 - 45. The PP shall implement the following Special Mitigation Measures in order to protect the Reserve Forest located at a distance of 1.20 km from the lease boundary:
 - i. Since the R.F is located close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
 - ii. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
 - iii. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.

- iv. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
- v. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
- vi. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
- vii. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
- viii. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.
- ix. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
- x. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
- xi. The Quarrying and Mining activities shall be restricted in the Ecosensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.

- xii. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more or areas with a high degree of erosion on forestland.
- xiii. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco-sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
- xiv. The PP shall not use plastic carry bags within the quarry area.
- xv. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free form blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.
- 38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 40) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been

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disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

- 41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.111 dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 42) As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be handed over to the DFO. Erode towards the conservation of Sathiyamangalam Tiger Reserve Forest before obtaining the CTO from the DEE/TNPCB.

Agenda No: 386 - 09

(File No: 8870/2023)

Proposed Rough stone quarry lease over an extent of 1.14.5Ha in SF.No.92/1, Pachapalayam Village, Sulur Taluk Coimbatore District, Tamil Nadu by Thiru M.Sundarraj - For Environmental Clearance. (SIA/TN/MIN/424660/2023, dt.03.04.2023)

The proposal was placed in the 386th SEAC meeting held on 23.06.2023. The details of the proposed project are given in the website (parivesh.nic.in).

The SEAC noted the following:

- The project proponent, Thiru M.Sundarraj has applied for Environmental Clearance along with EIA/ EMP report with minutes of public hearing for the Rough stone quarry lease over an extent of 1.14.5Ha in SF.No.92/1, Pachapalayam Village, Sulur Taluk Coimbatore District, Tamil Nadu.
- 2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
- 3. ToR vide. Lr No.SEIAA-TN/F.No.8870/SEAC/ToR- 1113/2021 Dated: 23.03.2022.
- 4. Public Hearing Conducted on 23.11.2023.
- 5. AD, Mines Exisitng Pit dimension letter vide Rc.No.795/Mines/2021, dated.21.10.2021
- 6. IRO (SZ), MoEF&CC issued CCR vide Lr. EP/12.1/2023 -24/SEIAA/19/TN /727 Dt:15.06.2023.

MEMBER SECRETARY
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HAIRMAN ' SFAC - TN 6. The precise area communication was issued for the period of 5 years. The approved mining plan is for the period of five years period & production should not exceed 45730m³ of Rough Stone. The annual peak production is 10836m³ of Rough Stone (3rd Year). The depth of mining upto 47m BGL.

SI. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	Thiru.M.Sundarraj S/o.Myilsamy Gounder Karacheri, Chettipalayam Via Coimbatore District-641201		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	:	Rough stone		
3.	S.F Nos. of the quarry site with area break-up	:	92/1		
4.	Village in which situated	:	Pachapalayam		
5.	Taluk in which situated	:	Sulur		
6.	District in which situated	:	Coimbatore		
7.	Extent of quarry (in ha.)	=	1.14.5Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	10°52'49.97"N to 10°52'55.05"N 77°02'46.32"E to 77°02'50.81"E		
9.	Topo Sheet No.	:	58- F/01		
10.	Type of mining	:_	Opencast Mechanized of Mining		
	Life of Project	<u> </u>	5 years		
11.	Lease Period	\perp	5 years		
	Mining Plan Period	<u> :</u>	5 years		
	Mining Plan Details	:	As per approved M	lining Plan	
	Geological Resources m ³ (RoM)	:	Rough Stone in m ³	Gravel in m ³	
12.	Mineable Resources m ³ (RoM)	:	Rough Stone 45730m³	Gravel	
	Annual Peak Production in m3	:	Rough Stone 45730m³	Gravel	
	Ultimate Depth in meters	1:	47m	1:0	

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13.	Depth of water table	:	70m – 65m BGL		
14.	Man Power requirement per day:	:	14 Nos.		
15.	Water requirement:		2.0 KLD		
	 Drinking water 	İ	0.5 KLD		
	2. Utilized water	:	1.0 KLD		
	 Dust suppression Green belt 		0.5 KLD		
			O.5 KED		
16.	Power requirement a. Domestic Purpose		TNEB		
	b. Industrial Purpose				
	Precise area communication	 	36592Liters of HSI		
17.	approved by the Assistant		Na.Ka.No.795/Mii	nes/2021,	
17.	Director Department of	:	dated.21.09.2021		
	G&M.				
18.	Mining Plan approved by		Rc.No.795/Mines/	2021,	
	Assistant Director	:	dated.21.10.2021.		
	Department of G&M.				
19.	Department of G&M,		RC No. 795/Mines	/2021,	
.,,	Assistant Director 500m	İ	dated.21.10.2021		
	Cluster Letter VAO Certificate Regarding		lawar dayad 0410	0001	
20.	Structures within 300m		Letter dated: 04.10	.2021	
	Radius				
21.	Project Cost (excluding EMP		D. 40 60 L 1	<u></u>	
	cost)	:	Rs.49.69 Laks		
			For the Five Years	•	per
		:	approved mining p		,
				Rough Stone	Gravel
22.	EC Recommendation		Max Total RoM	45730	
			in m ³	m³	ļ - ———
		:	Annual Max RoM in m ³	10836 m³	-
ı			Max Depth in	<u> </u>	<u> </u>
		:	mtrs	42r	n
23.	EMP cost (in Rs. Lakh).	:	Rs.92.5 Lakhs/5 Yea	ars	
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs	<u></u>	

Based on the presentation and documents furnished by the project proponent. SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 10836m³ of Rough Stone by restricting the ultimate depth of mining upto 42m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2. The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety. Chennal Region before obtaining the CTO from the TNPCB.
- 3. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 4. The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5. Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Salem (or) Trichy.
- 6. The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream.

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- Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 9. The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12. The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14. Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 15. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.

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- 17. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
- 19. Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 20. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21. Since few structures are located within 300 m from the lease boundary, within a period of six months from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the blast-induced ground vibrations produced from the quarry blasting and to suggest the mitigation measures for the control of ground / air vibrations & fly rock caused due to blasting, by involving anyone of these 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 Dept of Mining Engg-Anna University, Chennai. A copy

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- 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.
- 22. The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 23. If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 24. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 25. The PP shall submit a slope stability action plan for the proposed working vetted by the AD (Mines) before obtaining the CTO from the concerned DEE/TNPCB.
- 26. However, the PP shall carry out the scientific studies to assess the slope stability of the proposed workings and stability of the existing quarry wall before commencement of the operation of the quarry, since the depth of the existing quarry has already reached the depth of 30 m, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, DGMS-Chennai Region as a part of Environmental Compliance without any deviation.
- 27. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

- 28. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 29. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 30. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 31. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 32. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 33. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 34. The Project Proponent shall comply with the provisions of the Mines Act. 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 35. The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are 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

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- public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 36. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 37. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 38. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 39. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 40. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 41. 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.

- 42. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 43. As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Government Higher Secondary School. Arasampalayam, Coimbatore District before the execution of lease.

Agenda No: 386 - 10

(File No: 9910/2023)

Proposed Rough Stone & Gravel Quarry lease over an extent of 0.80.0Ha S.F.No.118/2 (P) & 127/1 (P), Appayampatty Village, Oddenchactram Taluk, Dindigul District by Thiru.V.Sakeer Husain - For Environmental Clearance. (SIA/TN/MIN/422063/2023, dt: 15.03.2023)

The proposal was placed in the 386th SEAC meeting held on 23.06.2023. The details of the proposed project are given in the website (parivesh.nic.in).

The SEAC noted the following:

- The project proponent, Thiru.V.Sakeer Husain has applied for Environmental Clearance for the Rough Stone & Gravel Quarry lease over an extent of 0.80.0 Ha S.F.No.118/2 (P) & 127/1 (P), Appayampatty Village, Oddenchactram Taluk, Dindigul District, Tamil Nadu.
- 2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
- 3. The precise area communication was issued for the period of 10 years. The approved mining plan is for the period of 1st five years & production should not exceed 17365m³ of Rough Stone & 4306m³ of Topsoil. The annual peak production is 3780m³ of Rough Stone (4th Year) & 2128m³ of Topsoil (5th Year). The depth of mining is 16m BGL.

SI. No	Salient Features of the Proposal					
1.	Name of the Owner/Firm	Thiru.V.Sakeer Husain, Mangaing partner of Tvl.Sakthi Blue : Metals, No.256, Poosaripatti Village, Oddenchatram Taluk, Dindigul District - 624202, Tamil Nadu State.				

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2.	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	:	Rough Stone & Gravel		
3.	S.F Nos. of the quarry site with area break-up	:	118/2 (P) & 127/1 (P)		
4.	Village in which situated	:	Appayampatty		
5.	Taluk in which situated	;	Oddenchactram		
6.	District in which situated	 	Dindigul		
7.	Extent of quarry (in ha.)	:	0.80.0Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	10°39'03.35"N to10°39'08.38"N 77°39'51.80"E to 77°39'55.60"E		
9.	Topo Sheet No.	:	58- F/10		
10.	Type of mining	:	Opencast Mechanized of Mining		
-	Life of Project	;	10years		
11.	Lease Period		10 years		
	Mining Plan Period	:	10 years		
	Mining Plan Details	:	As per approved Mining Plan		
	Geological Resources m³ (RoM)	:	Rough Stone in m ³	Topsoil in m ³	
			120000m ³ 8000m ³	8000m ³	
12.	Mineable Resources m³		Rough Stone	Topsoil	
	(RoM)	:	34025m³	4306m³	
	Annual Peak Production in		Rough Stone	Topsoil	
	m3	: 	3780 m3	2128 m ³	
	Ultimate Depth in meters	:	16m		
13.	Depth of water table	;	73m		
14.	Man Power requirement per day:	:	15 Nos.		
	Water requirement:		1.0KLD		
15.	 Drinking water Utilized water 	;	0.5KLD		
	3. Dust suppression		0.2 KLD	Λ	

	4. Green belt		0.3 KLD		
16.	Power requirement a. Domestic Purpose b. Industrial Purpose		TNEB 36592Liters of HSD		
17.	Precise area communication approved by the District Collector Department of G&M.	:	Rc.No.79/Kanimam, 29.12.2022	/2022, dt:	
18.	Mining Plan approved by Assistant Geologist /Assistant Director (i/c), Department of G&M.	:	Rc.No.79/Mines/20		
19.	Department of G&M. Assistant Geologist /Assistant Director (i/c) 500m Cluster Letter		Rc.No.79/Mines/20	22, dt: 30	.01.2023
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dt: Nil		
21.	Project Cost (excluding EMP cost)	:	Rs.27.26 Lakhs		
			1st Five Years as per approved mining plan		
		; 		Rough Stone	Topsoil
22.	EC Recommendation	:	Max Total RoM in m³	15,220 m3	4,306 m3
		:	Annual Max RoM	3780 m3	2128 m³
		:	Max Depth in mtrs	16 n	n
23.	EMP cost (in Rs. Lakh).	:	Rs177.5 Lakhs/ 10 Years		
 24.	CER cost (in Rs. Lakh).	1:	Rs.5 Lakhs		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 3780 m3 of Rough Stone by maintaining the ultimate depth upto 16 m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy (or) Salem.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural

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- stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8) The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPC8 once in six months.
- 15) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.

- 17) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18) Taller/one year old saplings raised in appropriate size of bags (preferably 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.
- 19) Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 22) No 'Deep-hole large diameter drilling and blasting' is permitted.
- 23)Since few structures are located within 300 m from the lease boundary, within a period of six months from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the blast-induced ground vibrations produced from the quarry blasting and to suggest the mitigation

measures for the control of ground / air vibrations & fly rock caused due to blasting, by involving anyone of these 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 Dept of Mining Engg-Anna University, Chennai. 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.

- 24)The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 25) The PP shall submit a slope stability action plan for the proposed working vetted by the AD (Mines) before obtaining the CTO from the concerned DEE/TNPCB.
- 26) However, the PP shall carry out the scientific studies to assess the slope stability of the proposed workings and stability of the existing quarry wall before commencement of the operation of the quarry, since the depth of the existing quarry has already reached the depth of 30 m, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, DGMS-Chennai Region as a part of Environmental Compliance without any deviation.
- 27)The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

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- 28) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 29) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 30) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 31) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 32)The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 33)To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 34) The Project Proponent shall comply with the provisions of the Mines Act, 1952. MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 35)The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and

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- the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 36)The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS). Chennai Region by the proponent without fail.
- 37) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 38)All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 39) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- As per the directions contained in the OM F.No.22-34/2018-1A.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 41) The mining lease holders shall, after ceasing mining operations, undertake 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.

- 42)As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 43) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the Panchayat Union Primary School, Veerappagoundenvalasu, Appayampatty village, Thoppampatti, Oddenchatram taluk, Dindigul before the execution of the lease.

Agenda No: 386-11 (File No: 6623/2018)

Proposed Existing Black Granite (Dolerite) Quarry over an extent of 1.20.0Ha at S.F.No.312/1A, 312/1C1, 312/1D1A & 312/1D2 of Kalugondanpalli Village, Denkanikottai Taluk and in S.F.No.387/1 of Muduganapalli village in Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru.M.Chinnu - For Environmental Clearance (Under Violation Category). (SIA/TN/MIN/ 235351/2021 Dt. 27.10.2021)

The proposal was placed in 256th SEAC meeting held on 24.03.2022. 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.M.Chinnu has applied for Environmental Clearance for the proposed Existing Black Granite (Dolerite) Quarry over an extent of 1.20.0 Ha at S.F.No. 312/1A, 312/1C1, 312/1D1A & 312/1D2 of Kalugondanpalli Village, Denkanikottai Taluk and in S.F.No.387/1 of Muduganapalli village in Hosur Taluk, Krishnagiri 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. ToR issued vide Lr.No.SEIAA-TN/F.No.6623/ToR-568/2018 dated 07.08.2018. Based on the presentation and documents furnished by the project proponent, SEAC noted.

Public hearing was mandatory as per ToR vide Lr.No. SEIAA-TN/F.No.6623/ToR-568/2018 dated 07.08.2018, but SEAC found that public hearing was not carried out for this project.

The Committee, therefore, decided to direct the PP to conduct public hearing, revise EMP based on public hearing and submit the details for taking up appliaisal.

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Subsequently, the proposal was placed in 500th SEIAA meeting held on 18.04.2022. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent.

In this connection, the project proponent furnished reply dt: 19.04.2023. The proposal was again placed in the 386th SEAC meeting held on 23.06.2023.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a Sub Committee to make an on-site inspection to assess the present status of the project site and environmental settings as the proposal falls under violation category and submit the report along with the recommendations to the Committee.

Further the Committee called for the following additional details:

- 1. A letter from the Project Proponent justifying that the project activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.
- 2. Copy of review of scheme of mining plan approved by the competent authority of the Dept of Geology and Mining for the proposed period of quarrying.
- 3. The PP shall furnish the copy of receipt of the penalty levied by the Dept of Geology and Mining for the exploitation of mineral without prior EC.

Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with MoEF & CC Guidelines in case of specifying the remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

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Agenda No. 386-12

(File No.8493/2023)

Proposed Rough Stone & Gravel Quarry lease over an extent of 1.83.5Ha at S.F.Nos.492/2 of Vagaikulam Village, Manur Taluk, Tirunelveli District, Tamil Nadu by Thiru.A.Densingh Babu - For Environmental Clearance. (\$1A/TN/MIN/419136/2023) dated: 21/03/2023).

The proposal was placed in 386th Meeting of SEAC held on 23.06.2023. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in). The SEAC noted the following:

- 1. The Proponent, Thiru.A.Densingh Babu, has applied for Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 1.83.5Ha at S.F.Nos.492/2 of Vagaikulam Village, Manur Taluk, Tirunelveli District, Tamil Nadu.
- 2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
- 3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 1,38,580m³ of Rough Stone and 75.330m3 of Gravel with an ultimate depth of mining 25m Below ground level.
- 4. ToR issued vide Lr.No.SEIAA-TN/F.No.8493/SEAC/ToR-990/2021 Dated: 28.07.2021.
- 5. Minutes of Public Hearing Conducted on 14.02.2022.
- 6. EIA Report Submitted on 21.03.2023.

Based on the presentation made by the proponent, the SEAC called for the following details from the PP.

- 1. The PP shall enumerate the structures located within 50m, 100m, 150m, 200m, 250m, 300m and the details of number of residents/usage, type/nature of structure, etc.
- 2. The PP shall submit reliable evidence of the Public Hearing conducted with photographs & original copy of the minutes signed by the competent authority.

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- 3. The PP shall prepare a model predicting the blast-induced ground/air vibration levels at 100m, 150m, 200m, 300m, 400m, 500m and to furnish a plan indicating the mitigating measures & SoP for the controlled blasting.
- 4. The Project Proponent shall furnish the revised EMP in the format prescribed by the SEAC.
- 5. The PP shall furnish revised CER by including maintenance cost of School Toilet additionally for a period of 10 years.

On receipt of the same, the subject will be taken up for further deliberation and to decide on future course of action.

Agenda No. 386-13

(File No.9046/2023)

Proposed Rough stone quarry lease over an extent of 1.45.0 Ha at S.F.Nos.94/1A, 94/9A & 94/10A of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru.K.M.Subramanian – For Environmental Clearance (SIA/TN/MIN/422799/2023 dated: 20/03/2023).

The proposal was placed in 386th Meeting of SEAC held on 23.06.2023. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in). The SEAC noted the following:

- The Proponent. Thiru.K.M.Subramanian, has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 1.45.0 Ha in S.F.Nos.94/1A, 94/9A & 94/10A of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu.
- 2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
- 3. As per the mining plan, the lease period is 5 years. The production as per mining plan for 5 years is not to exceed 1,01,330 m³ of Rough Stone with an ultimate depth of 27m (2m Gravel + 25m Rough Stone) BGL.
- 4. ToR issued vide Lr.No.SEIAA-TN/F.No.9046/SEAC/ToR-1154/2022 Dated: 06.06.2022.
- 5. Minutes of Public Hearing Conducted on 23.11.2022.
- 6. EIA Report Submitted on 06.04.2023.

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Based on the presentation made by the proponent, the SEAC called for the following details from the PP.

- 1) The PP shall furnish the registered consent obtained from the pattadhars for all the survey numbers of the mine lease area.
- 2) Besides, the structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, etc.
- 3) The PP shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological structures etc., as mentioned in the ToR issued.

On receipt of the same, the subject will be taken up for further deliberation and to decide on future course of action.

Agenda No. 386-14

(File No.9158/2023)

Proposed Rough stone quarry over an extent of 1.23.0 Ha at S.F.Nos. 289/1, 290/18 & 290/2 of Karudayampalayam Village, Pugalur Taluk, Karur District, Tamil Nadu by M/s. Ram Blue Metals – For Environmental Clearance (SIA/TN/MIN/424880/2023 dated: 05/04/2023).

The proposal was placed in 386th Meeting of SEAC held on 23.06.2023. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in). The SEAC noted the following:

- The Proponent, M/s. Ram Blue Metals, has applied for Environmental Clearance for the Proposed Rough stone quarry over an extent of 1.23.0 Ha at S.F.Nos. 289/1, 290/18 & 290/2 of Karudayampalayam Village, Pugalur Taluk, Karur District, Tamil Nadu.
- 2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
- 3. As per the mining plan the lease period is 5 years. The mining plan is for the period of 5 years & production should not exceed 1,04,248 cu.m of Rough Stone. The ultimate depth 35 m BGL.

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- Earlier, EC was accorded to the proponent vide Lr.No.SEIAA-TN/F.No.3698/EC/1(a)/2717/2015 dated.08.01.2016 for the quantity of 119353 cu.m of rough stone upto a depth of 27m.
- CCR From MoEF&CC, IRO (SZ) vide E.P/12.1/2022-23/SEIAA/58/TN/696 Dt:08.07.2022.
- 6. ToR along with Public Hearing issued vide Lr No.SEIAA-TN/F.No.9158/SEAC/ToR-1243/2022 Dated:07.09.2022.
- 7. Earlier in the ToR issued, the depth was restricted to 30m & production should not exceed 94,858 m³ of Rough Stone.
- 8. Minutes of Public Hearing Conducted on 28.02.2023.
- 9. EIA Report Submitted on 06.04.2023.

Based on the presentation made by the proponent, the SEAC called for the following details from the PP.

- The proponent is requested to submit the Year wise bulk transport permit (as per appendix XII – TNMMCR, 1959) issued by the competent authority to the lessee.
- 2) PP shall furnish the registered consent obtained from the pattachars for all the survey numbers of the mine lease area.
- 3) Besides, the structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, etc.
- 4) The Committee noted that there is non-compliance of many of the conditions as stipulated in the EC granted earlier as per the Certified Compliance Report, submitted by the proponent. Hence, the proponent shall comply with all other necessary conditions as per the earlier EC issued dated. 08.01.2016 given below:
 - i. The proponent shall install the 'S3 (or) G2' type of fencing all around the boundary of the proposed quarry with gates for entry/exit as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs & drone video showing the same.
 - ii. As per the EC issued earlier, the proponent shall complete the thick vegetation work by planting the native species of two rows on all sides

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of the lease area at the rate of 400 numbers /Ha. Besides, at least 10 numbers of Neem tree should be planted around the boundary of the quarry site.

- iii. The PP shall submit photographical evidences indicating Garland drain all around the boundary of the project area.
- iv. The PP shall furnish proof of separate account for maintaining the funds earmarked for Environmental Protection Measures.
- v. The PP shall provide proof of solar lighting system provided to the nearby village.
- vi. The PP shall show the evidence of insurance paid for the persons employed.
- vii. The PP shall show the record of carrying out the Free Silica Test for the persons employed in the mines and health condition of the local persons living within a radius of 1 km radius from the DGMS approved OHS Clinic/Hospital/Medical Practitioners'.
- viii. The PP shall show the records of air quality and ground water monitoring carried out.
- ix. The PP shall carry out the risk assessment studies on the existing quarry and shall submit a Risk Management Plan accordingly.

On receipt of the same, the subject will be taken up for further deliberation and to decide on future course of action.

Agenda No: 386-15 (File No: 9911/2023)

Proposed Rough stone Quarry over an extent of 0.97.0Ha at S.F.No. 48/1A(P) & 48/2 in Basthalapall Village, Shoolagiri Taluk, Krishnagir District, Tamil Nadu by M/s Konkan Aggregates Private Limited-For Environmental Clearance. (SIA/TN/MIN/421938/2023, 13.03.2023).

The proposal was placed in this 386th Meeting of SEAC held on 22.06.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

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1. The Project Proponent, M/s Konkan Aggregates Private Limited has applied

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for Environmental Clearance for the Proposed Rough stone Quarry over an extent of 0.97.0Ha at S.F.No. 48/1A(P) & 48/2 in Basthalapall Village, Shoolagiri Taluk, Krishnagir District, Tamil Nadu.

- 2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- As per the mining plan the lease period is 10 years. The mining plan is for the period of five years & production should not exceed 45825m³ of Rough Stone with ultimate depth of mining 21 m Below Ground Level (1m topsoil + 20m Rough Stone)

SEAC had noted the following during the presentation made by the PP;

1. SEAC noted that there are many structures located around the proposed quarry site as given in the following table.

S.No	List of Structures	Distance and Direction
1.	House (3 Persons)	60 m, N
2.	Pump Shed	50 m, N
3.	Farm-House	100 m, NW
 —	Numbers of House (6 Persons)	30 m, N
5.	Temporary Shed for Labourers (Vacant)	30 m, NE
6.	Farm-House	250 m, N
7.	Farm-House	270 m, NE
8.	Incomplete Structure	210 m, S
9.	Temporary Shed	40 m, \$

- 2. Besides, the proposed site is surrounded by the presence of habitations including a temple & schools (Basthalapalli Govt. School & P.U.M school) at a distance of 358 m.
- Further, the SEAC has observed that the proposed quarry site is located on the sloping ground and the quarrying of such sloping face may weaken the stability of the ground.
- 4. The proposed site is located in the biodiversity area enriched with rich vegetation.
- 5. There are well grown trees in the proposed site.

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

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Agenda No: 386 - 16

(File No: 8697/2022)

Proposed Rough Stone & Gravel lease over an extent of 1.32.0 Ha at S.F.No. 85/2B(P) Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru.A.Palanisamy - For Environment Clearance (SIA/TN/MIN/424096/2023 dt 30.03.2023)

The proposal was placed in this 386th meeting of SEAC held on 22.06.2023. The Project Proponent gave a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The SEAC noted the following:

- The Project Proponent, Thiru.A.Palanisamy has applied seeking Environment Clearance for the proposed Rough Stone & Gravel lease over an extent of 1.32.0Ha at S.F.No. 85/2B(P) in Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu.
- 2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
- 3. ToR Lr No SEIAA- TN/F.NO.8697/SEAC/ToR-1068/2022 Dated:01.03.2022
- 4. Public Hearing conducted on 23.11.2022

Based on the presentation and documents furnished by the project proponent. SEAC decided to call for the following additional details from the Project Proponent:

- 1. The PP shall furnish the revised mining quantity duly approved by the Competent Authority.
- 2. The structures within the radius of (i) 100 m, (ii) 300 m, and (iii) 500 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
- 3. Owing to the presence of high wall in the existing quarry, the PP shall carry out the scientific studies to assess the slope stability of the existing quarry wall and evaluate the mitigation measures for the stability of the proposed workings, by involving anyone of the reputed Research and Academic Institutions CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, Division of Geotechnical Engineering/IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Dept of Mining

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- Engg., Anna University, Chennai. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 4. The PP shall furnish a sworn affidavit in Tamil stating that all the conditions imposed in the Environmental Clearance granted for the project will be followed in letter and spirit by the PP.
- 5. PP shall submit the geotagged photographs of the saplings planted along the periphery of the mine lease area as part of EC compliance.

Agenda No: 386 - 17

(File No: 9229/2022)

Proposed Rough Stone & Gravel lease over an extent of 3.82.5 Ha at S.F.No. 1199/2, 1199/3, 1199/4, 1199/5, 1199/6, 1199/7, 1199/8, 1199/9, 1200/4, 1200/5, 1200/6, 1200/7, 1200/8, 1200/9, 1200/10, 1200/11, 1200/12 and 1201(P), in Punnam Village, Aravakurichi Taluk, Karur District, Tamil Nadu by M/s. VST Blue Metals - For Environment Clearance (SIA/TN/MIN/424684/2023 dt 05.04.2023)

The proposal was placed in this 386th meeting of SEAC held on 23.06.2023. The Project Proponent gave a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The SEAC noted the following:

- The Project Proponent, M/s. VST Blue Metals has applied seeking Environment Clearance for the proposed Rough Stone & Gravel lease over an extent of 3.82.5 Ha at S.F.No. 1199/2, 1199/3, 1199/4, 1199/5, 1199/6, 1199/7, 1199/8, 1199/9, 1200/4, 1200/5, 1200/6, 1200/7, 1200/8, 1200/9, 1200/10, 1200/11, 1200/12 and 1201(P), in Punnam Village, Aravakurichi Taluk, Karur District, Tamil Nadu
- 2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
- 3. ToR Lr.No: SEIAA-TN/ F.No.9229/ SEAC/ ToR-1192/2022, Dated: 14.07.2022.
- 4. Public Hearing conducted on 28.02.2023

	9229	Catamani	B2
File No	EC	Category	1 (a)
SI. No	Salient Fea	tures of the Proposal	

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CHAÎRMAN SFAC- TN

		\neg		·	
1.			M/s. VST Blue Metals		
			No.645/B1, Erode	Main Road	
	Name of the Owner/Firm	:			
			"		
			Karur-639136		
	Type of quarrying (Ordinary	Γ	Rough Stone & Gr	avel	
2.	Stone/Sand/Granite/Lime	;			
	stone)				
			i		
3.	S.F Nos. of the quarry site	:	1199/7, 1199/8, 11	99/9, 1200/4, 1200/5,	
	with area break-up	.	1200/6, 1200/7	, 1200/8, 1200/9,	
			Rough Stone & Gravel 1199/2, 1199/3, 1199/4, 1199/5, 1199/6, 1199/7, 1199/8, 1199/9, 1200/4, 1200/5,		
4.	Village in which situated	<u> </u> :	Punnam		
5.	Taluk in which situated	:	Aravakurichi		
6.	District in which situated	:	Karur		
7.	Extent of quarry (in ha.)	1:	3.82.50 Ha		
۵	Latitude & Longitude of all		10°58' 49.85"N to	10°58'59.89"N	
	corners of the quarry site	:			
9.	Topo Sheet No.	;			
10.	Type of mining	:	Opencast semi mechanized mining		
	Life of Project	:	5 years		
11.	Lease Period		5 years		
	Mining Plan Period	:	5 years		
	Mining Plan Details		· · · · · · · · · · · · · · · · · · ·	As modified by	
		L.		SEAC	
			Rough Stone -	-	
			726213 m³		
	(RoM)	•	Gravel -		
			48498 m³	İ	
			Rough Stone -	Rough Stone -	
12.	Minable Posources m3 (PoNA)		437013 m ³		
	Williable Resources III- (ROM)	:]	Gravel –	Gravel –	
		ĺ	38880 m³	38880 m³	
		\dashv	Rough Stone -	-	
	Annual Peak Production in		99068 m ³		
	m3	:	Gravel –		
			13680 m³		
	Ultimate Depth in meters	;	30m BGL	25m BGL /	
13.	Depth of water table	;	55m-65m BGL	\ 	
6. 7. 8. 9. 10.	District in which situated Extent of quarry (in ha.) Latitude & Longitude of all corners of the quarry site Topo Sheet No. Type of mining Life of Project Lease Period Mining Plan Period Mining Plan Details Geological Resources m³ (RoM) Minable Resources m³ (RoM) Annual Peak Production in m3 Ultimate Depth in meters	:	3.82.50 Ha 10°58' 49.85"N to 77°58'55.12"E to 7 58-F/13 Opencast semi med 5 years 5 years 5 years As per approved Mining Plan Rough Stone - 726213 m³ Gravel - 48498 m³ Rough Stone - 437013 m³ Gravel - 38880 m³ Rough Stone - 99068 m³ Gravel - 13680 m³ 30m BGL	As modified by SEAC Rough Stone - 340313 m³ Gravel -	

14,	Man Power requirement per	:	35 Nos.		
	day:				
15.	Water requirement:	:	5.5 KLD		
	 Drinking & Domestic 		0.5 KLD		
	Purpose				
	2. Dust suppression &		1.5KLD		
	Green Belt (in KLD)		3.5 KLD		
		-	TNEB		
16.	Power requirement		6480 litres of HSD will be utilized		
_	Precise area communication	\vdash	Rc.No. 16/mines/20		
			dated:12.04.2022	·	
	approved by the Assistant	١.	dated.12.04.2022		
17.	Geologist, Assistant	:			
	Director(i/c), Dept. of				
	Geology & Mining	<u> </u>			
	Mining Plan approved by		Rc.No.16/mines/202	22,	
18.	Assistant Geologist, Assistant	:	dated:29.04.2022		
16.	Director(i/c), Dept. of	.			
	Geology & Mining				
	Assistant Geologist, Assistant		Rc.No. 16/mines/20	22.	
	Director(i/c), Dept. of		dated:29.04.2022		
19.	Geology & Mining 500m				
	Cluster Letter				
	VAO Certificate Regarding	† -	Letter dated: 30.07.	.2022	
20.	Structures within 300m	1			
20.	Radius				
21.	Project Cost (excluding EMP	:	Rs. 90.79 lakh		
	cost)	+		30 years	ubject to
				the follow	
					•
		:	Validity	upper lim	T
				Rough	Gravel
	EC Recommendation			Stone	
22.	EC Recommendation	.	Max Total RoM	340313	38880
		1,	in m³		
			Annual Max RoM	99068	13680
		:	in m³		
				30 m	25m
		:	Max Depth in m	BGL	BGL
		+	Capital cost - Rs.47	7,82,150/-	
23.	EMP cost (in Rs. Lakh).	;		V	
	Even cost (in to) barry.	L'	<u> </u>		

			Recurring cost - Rs. 26,49,,952/- + 5% of inflation cost every year
24.	CER cost (in Rs. Lakh).	:	6.1 Lakh

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 99068 m³ of Rough stone and 13680 m³ of Gravel by restricting the ultimate pit depth of 25 m BGL and subject to the other conditions 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:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy (or) Salem.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of/the process should be included in the HYCR.

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- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8) The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 15) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.

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- 16) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 17) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18) Taller/one year old saplings raised in appropriate size of bags (preferably 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.
- 19) Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 20) The PP shall carry out maximum of only one round of controlled blast per day. restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21) Since few physical structures are located within 300 m from the lease boundary, within a period of six months from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the blast-induced ground vibrations produced from the quarry blasting and to suggest the mitigation measures for the control of ground / air vibrations & fly rock caused due to blasting.

by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal. 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.

- 22)The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 23)If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 24) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 25)The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 26)The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 27)Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 28) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation

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- indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 29) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 30) Since there are few check dams are located within 500 m from the lease boundary, within a period of one year from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the hydrogeological studies of the quarry site, by involving anyone of these reputed Research and Academic Institution CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and University of Madras Centre for Environmental Studies, Guindy Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32)To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33) The Project Proponent shall comply with the provisions of the Mines Act, 1952. MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34)The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.

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- 35)The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS). Chennai Region by the proponent without fail.
- 36)The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 37)All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 38)That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 39)As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 40) The mining lease holders shall, after ceasing mining operations, undertake 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.
- 41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

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42) As accepted by the Project Proponent the CER cost of Rs. 6.1 lakh and the amount shall be spent for the committed activities, before obtaining CTO from TNPCB.

Agenda No: 386 - 18

(File No: 8033/2023)

Proposed Rough stone & Gravel quarryover an extent of 2.06.5 Ha at S.F.Nos. 258/IB1B of Chettikurichi Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu by Thiru.A. Shahul Hameed - For Environmental Clearance. (SIA/TN/MIN/424743/2023, Dated: 04.04.2023)

The proposal was placed in 386th SEAC meeting held on 23.06.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

- The Project Proponent, Thiru. A. Shahul Hameed has applied for Environmental Clearance for the Proposed Rough stone & Gravel quarry over an extent of 2.06.5 Ha at S.F.Nos. 258/IBIB of Chettikurichi Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu.
- 2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. As per mining plan, the lease period is for 5 years. The mining plan is for 5 years & production should not exceed 1,99,340m³ of Rough Stone & 29,316m³ of Gravel. The annual peak production 40,650m³ of Rough Stone & 12,540m³ of Gravel. The ultimate depth of mining is 23m BGL.
- 4. Subsequently, the proponent had obtained vide Lr. No. SEIAA-TN/F.No. 8033/SEAC/ToR-921/2020 Dated: 16.03.2021.
- 5. Public hearing was conducted on 23.02.2023.

File No		8033/2023 424743/2023		Category	B1
				Cutegory	1(a)
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm			Thiru. A. Shahul Han	need,
			1.	S/o. Shri Abdul Sama	d,
	Name of (Name of the Owner/Firm		No. 9, Kasim Bawa Thaikka Street,	
				Kayathar Village & Post,	

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			Thoothukudi District - 628952		
	Type of quarrying (Ordinary		Rough stone & C	ravel Quarry	
2.	Stone/Sand/Granite/Lime	:			
	stone)				
	S.F Nos. of the quarry site		258/1B1B		
3.	with area break-up	:			
4.	Village in which situated	:	Chettikurichi		
5.	Taluk in which situated	:	Kayathar		
6.	District in which situated	:	Thoothukudi		
7.	Extent of quarry (in ha.)	:	2.06.5 Ha		
	Latitude & Longitude of all	1.	09°03'32.36"N 1	to 09°03'27.74"N	
8.	corners of the quarry site	;	77°44`00.80"E t	o 77°43'54.31"E	
9.	Topo Sheet No.	:	58- H/13		
10.	Type of mining	:	Opencast Semi-Mechanized Mining		
	Life of Project	:	5 years		
11.	Lease Period		5 years		
	Mining Plan Period	:	5 years		
			As per		
	Mining Plan Details	:	approved	As modified by SEAC	
II.			Mining Plan		
			Charkonite	Charkonite	
	d 1 1 1 D		3,67,640m ³	-	
	Geological Resources m ³	:	Top Soil with	Top Soil with Gravel	
12.	(RoM)		Gravel	tob 3011 with Graver	
			29,316m ³	-	
		+	Charkonite	Charkonite	
			1,99,340m³	•	
	Minable Resources m³ (RoM)) :	Top Soil with	Top Soil with Gravel	
			Gravel	10P 2011 WITH GIAVE	
			29,316m ³	<u> </u>	

CHAIRMAN ~

			Charkonite	Charkonite	
	Annual Peak Production in m ³		40,650m³		
			Top Soil with	T 6 3 33 6 1	
			Gravel	Top Soil with Gravel	
			12,540m³		
	Ultimate Depth in meters	;	23m BGL	•	
13.	Depth of water table	:	35m in rainy sea	ason &40m in summer	
			season		
14.	Man Power requirement per	1:	14 Nos		
	day:	-	14 1403		
	Water requirement:		3.5 KLD		
l 15.	Drinking water	:	0.7 KLD		
.51	2. Dust suppression		1.3 KLD		
	3. Green belt		1.5 KLD		
16.	Power requirement	:	TNEB		
	- Cover requirement		200 Litres of HS	D/ day	
	Precise area communication		Rc. No.70/G&M	/2016, Dated:	
17.	approved by the District	:	28.09.2018		
	Collector, Department of				
	G&M.				
,	Mining Plan approved by		Rc. No.70/G&M,	/2016, Dated: 16.10.2018	
18.	Assistant Director,	:			
	Department of G&M.				
	Department of G&M,		Rc. No.70/G&M/	/2016, Dated:	
19.	Assistant Director, 500m	:	08.09.2020		
	Cluster Letter				
	VAO Certificate Regarding	† –			
20.	20. Structures within 300m		Letter Dated: 30.	09.2023	
	Radius				
21.	Project Cost (excluding EMP		Pr 104 92 040		
21.	cost)	-	Rs. 1,04,82,860	/_	

				30 years subject to the following upper limits.	
		:	Validity	Rough Stone	Gravel
22.	EC Recommendation	:	Max Total RoM in m ³	1,99,340m³	29,316m³
		:	Annual Max RoM in m ³	40,650m³	12,540m³
		:	Max Depth in mtrs	23m BGL	
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 24,78,550 Recurring Cost – Rs. 14,29,664		
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000		
25.	ToR Issued Details	1:	Lr.No. SEIAA-TN 921/2020 Date		
26.	Public Hearing Conducted on	;	23.02.2023		
27.	EIA Report Submitted on	:	06.04.2023		

Based on the presentation & documents furnished, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 40,650 m³ of Rough Stone and 12,540 m³ of Gravel with maintaining the ultimate depth of 23m BGL and subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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

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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.
- 3. 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, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
- 4. The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
- 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 DGMS approved Group Vocational Training Centre, Pandalgudi (or) Trichy.
- 6. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the development activities from west to east direction 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, within a period of one year from the commencement of mining operations, the PP shall carry out the scientific studies to assess the slope stability of the existing quarry wall and stability of proposed workings for ensuring the safety, 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 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. 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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- 9. In the meanwhile, within six months from the commencement of quarrying operations, the PP shall consult and obtain necessary permission from the DMS. Chennai Region for the extraction of common boundary existing adjacent to the neighbouring quarry considering the safety aspects.
- 10. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
- 11. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 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.
- 12. 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.
- 13. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
- 14. 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.
- 15. 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.

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- 16. 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.
- 17. Within six months of the commencement of quarrying operations and also once in two years, the PP shall carry out the comprehensive hydrogeological studies to monitor 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 Applied Geology, Chennal 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 PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
- 19. 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.
- 20. 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.
- 21. 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.
- 22. As accepted by the Project proponent the CER cost is Rs.5 lakhs and the same shall be spent for the Government High School in Vadakku Ilandaikulam, Kayathar Taluk, Thoothukudi as committed, before the execution of the lease.

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Agenda No: 386 - 19

(File No: 8404/2023)

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Proposed Rough stone quarry over an extent of 1.50.0 Ha at S.F.Nos. 1 (Part) (Bit-3A) of Kondamanaickenpatti Village, Senthamangalam Taluk, Namakkal District, Tamil Nadu by Tmt. S. Menaka - For Environmental Clearance.(SIA/TN/MIN/423814/2023, Dated: 29.03.2023)

The proposal was placed in 386th SEAC meeting held on 23.06.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

- The Project Proponent, Tmt. S. Menaka has applied for Environmental Clearance for the Proposed Rough stone quarry over an extent of 1.50.0 Ha at S.F.Nos. 1 (Part) (Bit-3A) of Kondamanaickenpatti Village, Senthamangalam Taluk, Namakkal District, Tamil Nadu.
- 2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. As per mining plan, the lease period is for 5 years. The mining plan is for 5 years & production should not exceed 72,000m³ of Rough Stone. The annual peak production 14,490m³ of Rough Stone. The ultimate depth of mining is 15m AGL.
- 4. Subsequently, the proponent had obtained vide Lr. No. SEIAA-TN/F.No.8404/SEAC/ToR-980/2021, Dated: 05.07.2021.
- 5. Public hearing was conducted on 05.01.2023.

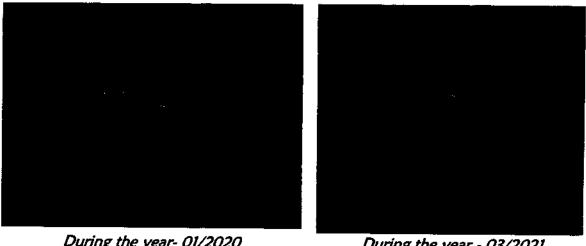
During the presentation, SEAC noted that;

- The proponent had obtained Precise area communication letter from District Collector vide Rc. No. 1446/Mines/2019 Dated: 20.12.2019 based on tender awarded to the proponent.
- Further from the KML file uploaded by the proponent in Parivesh Portal and Google Imagery, it is construed that south western portion of the proposed lease area has been quarried after 2020 without valid a prior Environmental Clearance.
- 3. Further, based on the examination of timeline in Google imagery, it is ascertained that the quarrying activity had been carried out in the lease area awarded to the proponent even after the tender was finalised.

In the light of the above, SEAC decided that

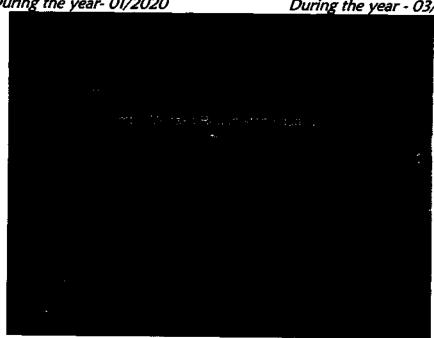
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- (i) The SEIAA may write to the concerned AD/ Mines seeking clarification regarding the status of the existing pit which has been observed from the google imagery during the period 2020 to 2022 (as given below), since Google map shows that mining activity has taken place after mine was allotted to the PP in tender.
- (ii) Further, the AD Mines shall inspect the aforesaid quarry site and give his comments on the existing site conditions along with last Bulk transport permit issued, if any, by Department of Geology and Mining to the lessee.



During the year- 01/2020

During the year - 03/2021



During the year - 01/2022

The AD (Mines) shall give his comments on the extraction of safety (iii) zone/barrier demarcated for the PP in the leasehold area.

On the receipt of aforesaid details, further deliberation shall be done.

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Agenda No: 386 - 20 (File No: 8299/2021)

Proposed Earth quarry lease over an extent of 2.30.0 Ha at S.F.No. 602/1A5 at Vettangudi Village, Sirkali Taluk, Mailaduthurai District, Tamil Nadu by Thiru. B. Gopalakrishnan – For Environmental Clearance. (SIA/TN/MIN/196996/2021, dated: 06.02.2021)

The proposal was placed in this 330th meeting of SEAC held on 17.11.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The project proponent gave detailed presentation. SEAC noted the following:

- The Proponent, Thiru. B. Gopalakrishnan has applied seeking Environmental Clearance for the proposed Earth quarry lease over an extent of 2.30.0 Ha at S.F.No. 602/1A5 at Vettangudi Village, Sirkali Taluk, Mailaduthurai District, Tamil Nadu.
- 2. The project/activity is covered under Category "82" of item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- 3. Earlier the proposal was placed in 330th SEAC meeting held on 17.11.2022. Based on the presentation made by the PP, SEAC noted that the proposed mine lease area is abutting Buckingham Canal on the western side and Bay of Bengal shore line on the Eastern Side. Hence, SEAC decided to call for the following additional details;
 - 1. The proposed mine lease area may fall under CRZ area under CRZ notification, 2011 as amended. Hence, the project proponent is requested to furnish the CZMA mapping prepared by competent authority such as IRS, Anna university etc. Further, if the proposal falls under CRZ area, recommendation of the CZMA may be submitted as per the O.M issued by the MOEF&CC, Gol, New Delhi vide F.No.IA3-12/1/2022-IA.III dated 26.04.2022.
 - 2. The proponent shall furnish letter obtained from DFO regarding the existence of any Reserved Forest nearby.
 - 3. In the light of the Judgment issued by the Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021, and in terms of Director of Geology and Mining letter No. 7240/MM6/2019 Dt. 30.7 2021. (1) the

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mineral composition of the proposed mineral (Earth) to be quarried shall be tested in any of the following laboratories and the results submitted to the Committee and (2) the proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones.

SI.	Name of the Laboratory
No	<u></u>
1.	Department of Geology and Mining, Govt of Tamil Nadu, Industries Department, Alandur road, Guindy Industrial Estate, Chennai – 600032.
2.	Department of Applied Geology, University of Madras, Guindy Campus, Chennai – 600025.
3.	Department of Geology, CEG Campus, Anna University, Chennai – 600025.

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

Subsequently, the proposal was again placed in 386th SEAC meeting held on 23.06.2023. During the presentation, EIA coordinator requested additional time to submit CRZ clearance. Hence, the proposal was deferred.

Agenda No: 386-21 (File No: 6123/2023)

Existing Magnesite & Dunite Mine lease over an extent of 3.63.5 Ha in S.F.No. 527/B2 in Punganthurai Village, Dharapuram Taluk, Tiruppur District, Tamil Nadu by Tmt.P.Baladevie - For Environmental Clearance under Violation category. (SIA/TN/MIN/424906/2023 Dt.05.04.2023).

The proposal is placed for appraisal in this 386th meeting of SEAC held on 23.06.2023. The details of the project furnished by the proponent are available on the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Tmt.P.Baladevie has applied for the Environmental Clearance for Existing Magnesite & Dunite Mine lease over an extent of 3.63.5

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Ha in S.F.No. 527/B2 in Punganthurai Village, Dharapuram Taluk, Tiruppur District, Tamil Nadu.

- 2. The project/activity is covered under Category "B" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
- 3. ToR under violation issued vide SEIAA Lr. No. SEIAA-TN/F.No.6123/ToR-365/2018, dated: 17.05.2018.
- 4. Amendment ToR obtained vide Lr No.SEIAA-TN/F-6123/SEAC-CXVIII/ToR-365(A)/2018 Dated:30.07.2018.
- 5. ToR Extension under violation issued vide SEIAA Lr. No. SEIAA-TN/F.No.6123/ToR-365/Ext/ dated:26.09.2022.

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

The proponent shall furnish a letter from the Dy.Director/ Asst. Director. Department of Geology and mining clearly stating the details of existing quarries, proposed quarries, lease expired quarries and abandoned quarries separately that are situated within the radius of 500m from the proposed project site in the prescribed format to ascertain the applicability of Public Hearing to the proposal.

Meanwhile, the SEAC decided constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category.

Agenda No: 386-22 (File No: 9189/2023)

Proposed rough stone & gravel quarry lease over an extent of 4.91.5 Ha at S.F.Nos. 92/3(P), 92/4(P), 93/1A(P), 93/1B(P), 93/2A, 93/2B(P), 110/3 and 110/4 of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamilnadu by Thiru.C.Kathirvel – For Environmental Clearance (SIA/TN/MIN/423615/2023 dated

27.03.2022)

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The proposal is placed in this 386th meeting of SEAC held on 23.06.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

- The project proponent. Thiru.C.Kathirvel has applied for Environmental Clearance for the Proposed rough stone & gravel quarry lease over an extent of 4.91.5 Ha at S.F.Nos. 92/3(P), 92/4(P), 93/1A(P), 93/1B(P), 93/2A, 93/2B(P), 110/3 and 110/4 of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamilnadu.
- 2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
- 3. ToR was issued to the project proponent vide Lr.No. SEIAA-TN/F.No.9189/SEAC/ToR-1225/2022 dated.18.08.2022.
- 4. The salient features of the proposal are as follows:

F	9189 File No SIA/TN/MIN/423615		5/20	Category 23	1(a) B1		
SI. No		Salient Features of the Proposal					
1.	Name of the Owner/Firm		:	Thiru.C. Kathirvel S/o. R. Chinnaswamy Gounder, Kallikattu Thottam, Thekani, Chettipalayam Via, Coimbatore District – 641 201.			
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)		:	Rough Stone and G	ravel Quarry		
3.	S.F Nos. of the quarry site with area break-up		:	92/3(P), 92/4(P), 93 93/2B(P), 110/3 and	3/1A(P), 93/1B(P), 93/2A, 110/4		
4.	Village in v	which situated	:	Pachapalayam			
5.	Taluk in which situated		:	Sulur			
6.	District in	District in which situated : Co		Coimbatore			
7.	Extent of a	quarry (in ha.)	:	4.91.50 Ha	Λ.		

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8.	Latitude & Longitude of all	:	10°52'52.03"N to 10	0°53'00.52"N	
0.	corners of the quarry site	•	77°02'47.56"E to 77°02'58.26"E		
9.	Topo Sheet No.	:	58-F/01		
10.	Type of mining	:	Opencast Mechaniz	ed Mining Method	
	Life of Project	:	5 years		
11.	Lease Period		5 years		
	Mining Plan Period	:	5 years		
	Mining Plan Details	;	As per approved Mining Plan	As modified by SEAC	
	Geological Resources m ³		Rough Stone - 12,40,611m ³	Rough Stone - 12,40,611m ³	
į	(RoM)	:	Gravel - 26,543m³	Gravel - 26,543m³	
			Topsoil – 4,819m³	Topsoil – 4,819m³	
	Minable Resources m³ (RoM)		Rough Stone -	Rough Stone -	
12.			5,72,260m³	5,72,260m³	
			Gravel – 15,456m³	Gravel – 15,456m³	
	Annual Peak Production in m3		Rough stone - 52,150m ³	Rough stone -52,150m ³	
			Gravel – 7392m³	Gravel – 7392m³	
	Maximum Depth in meters	:	43m below ground level	43m below ground level	
13.	Depth of water table	1:	65m-70m		
14.	Man Power requirement per day:	:	27 Nos.		
	Water requirement:		1.5 KLD		
	Drinking and Domestic		0.5 KLD		
15.	Purpose	:			
	2. Dust suppression		0.3 KLD	•	
	3. Green belt		0.7 KLD	\bigcap_{Λ}	

16.	Power requirement		180-200 litres of H	D per day		
17.	Precise area communication approved by the Assistant Director, Dept. of G&M with date	:	Rc.No.898/Mining/2021,dated:11.11.2021.			
18.	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	:	Rc.No.898/Mining/	Rc.No.898/Mining/2021,dated:25.01.2022.		
19.	500m cluster letter issued by the Assistant Director, Dept.of Geology and Mining with date		Rc.No.898/Mining/2021,dated:25.01.2022.			
20.	VAO Certificate Regarding Structures within 300m Radius		-			
21.	ToR issued		Lr.No.SEIAA-TN/F.No.9189/SEAC/TOR/ 1225/2022 Dated:18.08.2022.			
22.	Public Hearing		23.11.2022.			
23.	EIA Report submitted on		06.04.2023.			
24.	Project Cost (excluding EMP cost)	:	Rs.1,41,38,000/-			
			Validity	30 years subject to the following upper limits.		
			Validity	Rough Stone	Gravel	
25.	EC Recommendation	:	Max Total RoM in m ³	2,52,50 0	15,456	
:		:	Annual Max RoM in m³	52150	7392	
			Max Depth in mtrs	40m	2m	
26.	EMP cost (in Rs. Lakh).	:	Capital Cost – 38,92	2,050/-		

			Recurring Cost - 19.54,030/-
27.	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-

Based on the presentations & detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 52,150m³ of rough stone & 7392m³ of gravel by maintaining ultimate pit depth of 42 m and subject to the standard conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Salem (or) Trichy.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.

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- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8) The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 15) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.

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- 16) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 17) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18) Taller/one year old saplings raised in appropriate size of bags (preferably 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.
- 19) Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
 - 46. Since cluster of quarries to be operated, within a period of six months from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the blast-induced ground vibrations produced from the blasting operation in the cluster situation and to suggest the mitigation measures for the control of ground / air vibrations & fly rock caused due to

blasting, by involving anyone of these 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 Dept of Mining Engg-Anna University, Chennai. 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.

- 21) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 22)If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 23) As the ultimate depth in this case exceeded 40m, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, 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.
- 24) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 25)The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

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- 26)The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 27) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 28)The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 29) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 31) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 32)The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 33) The project proponent shall ensure that the provisions of the MMDR Act. 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour. It ructure and

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- the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 34) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS). Chennai Region by the proponent without fail.
- 35) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 36)All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 37) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 38) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 39) 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.

- 40) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 41) As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Middle School, Periyakuili, Sultaanpettai Union, Coimbatore District before the execution of the lease.

Agenda No: 386-23 (File No: 9308/2023)

Proposed rough stone & gravel quarry lease over an extent of 2.39.0 Ha at S.F.No. 70/2 & 70/3 of Myleripalayam village, Madukkarai Taluk, Coimbatore District, Tamilnadu by Tvl.Sri Vetri Velavan Blue Metals – For Environmental Clearance (SIA/TN/MIN/426688/2023 dated.21.04.2023)

The proposal was placed in this 386th meeting of SEAC held on 23.06.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

- 1. The project proponent, Tvl.Sri Vetri Velavan Blue Metals has applied for Environmental Clearance for the Proposed rough stone & gravel quarry lease over an extent of 2.39.0 Ha at S.F.No. 70/2 & 70/3 of Myleripalayam village, Madukkarai Taluk, Coimbatore District, Tamilnadu.
- 2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
- 3. ToR was issued to the proponent vide Lr.No.SEIAA-TN/F.No.9308/SEAC/ToR-1235/2022 dated.30.08.2022.

Based on the presentation and details furnished by the project proponent, the committee after detailed discussions decided to consider the proposal after the receipt of following details from the project proponent:

- i) The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m (iv) 300 m (v) 400m & (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, village roads, etc.
- ii) The proponent shall furnish photographs of adequate fencing, green belt of 2 to 3 rows of vegetation along the periphery including replantation of

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- existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
- iii) The proponent shall also furnish details/photographs of the garland drains provided.

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

Agenda No: 386-24 (File No: 9914/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 2.21.0 Ha at S.F.No. 408/I (Part) of Pudur Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by Mr.M.Shunmugaraj – For Environmental Clearance.(SIA/TN/MIN/422388/2023 dated 17.03.2023)

The proposal was placed in the 386th meeting of SEAC held on 23.06.2023. The details of the project are available in the website (Parivesh.nic.in).

The SEAC noted the following:

- The project proponent, Mr.M.Shunmugaraj has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 2.21.0 Ha at S.F.No. 408/1 (Part) of Pudur Village, Tirunelveli Taluk, Tirunelveli 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.

Based on the presentation and details furnished by the project proponent, SEAC observed that:

- The proposed quarry is located in a virgin site.
- ii) Solar Energy farm is located very close to the site. The distance of the nearest solar panel power unit is 80m from the project side on the western side.
- the lease boundary and there is the risk from the flyrock due to blasting operations and blast-induced ground & air vibrations, in the proposed quarrying operations.
- iv) The proposed quarrying operation involving blast-induced ground/& air

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vibrations & flyrock due to rock blasting operations and dust pollution due to huge excavation & hauling operations may severely damage and reduce the energy conversion rate of the existing solar panel structures.

In view of the above facts, the Committee, after detailed deliberations, decided not to recommend the proposal for grant of Environmental Clearance.

Agenda No: 386-25

(File No: 9301/2022)

Proposed Rough Stone quarry Lease over an extent of 1.00.0 Ha at S.F.No. 139/1 (Part) in Esanai Village, Perambalur Taluk, Perambalur District, Tamilnadu by Thiru.P.Kalaiselvan – For Environmental Clearance.(SIA/TN/MIN/276144/2022 dated 22.06.2022)

The proposal was placed in the 386th meeting of SEAC held on 23.06.2023. The details of the project are available in the website (Parivesh.nic.in).

The SEAC noted the following:

- The project proponent, Thiru.P.Kalaiselvan has applied for Environmental Clearance for the proposed Rough Stone quarry Lease over an extent of 1.00.0 Ha at S.F.No. 139/1 (Part) in Esanai Village, Perambalur Taluk, Perambalur District. Tamilnadu.
- 2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
- 3. Earlier, the proposal was placed in the 334th meeting of SEAC held on 02.12.2022. The proponent was absent during the meeting and hence the proposal was deferred.
- 4. Now, the proposal is again placed in this 386th meeting of SEAC held on 23.06.2023.
- 5. The salient features of the proposal are as follows:

File No SI. No		9301 SIA/TN/MIN/276144/2022	Category	1(a) B2
		Salient Features	of the Proposa	il

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1.	Name of the Owner/Firm	:	Thiru.P. Kalaiselvan S/o. Ponnusamy, No.15, Vinayagar S		
			Thuraiyur, Trichy District – 62	1 010.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone quarry	y	
3.	S.F Nos. of the quarry site with area break-up	:	139/1(P)		
4.	Village in which situated	:	Esanai		
5.	Taluk in which situated	:	Perambalur		
6.	District in which situated	:	Perambalur		
7.	Extent of quarry (in ha.)	:	1.00.0 Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	11°17'30.89"N to 11°17'34.96"N 78°49'15.74"E to 78°49'21.06"E		
9.	Topo Sheet No.	:	58-1/15		
10.	Type of mining	:	Opencast Mechanized Method		
	Life of Project	:	5 years		
11.	Lease Period		5 years		
	Mining Plan Period	:	5 years		
	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC	
12.	Geological Resources m³ (RoM)	:	Rough Stone - 4,31,350 m ³	Rough Stone - 4,31,350 m ³	
			Topsoil – 100m³	Topsoil – 100m³	
	Minable Resources m³ (RoM)	:	Rough Stone - 2,10,090 m ³	Rough Stone - 2,10,090 m ³	

	Annual Peak Production in m3	:	Rough Stone – 44,990m³	Rough Stone – 44,990m³	
	Maximum Depth in meters	:	76m above ground level	76m above ground level	
13.	Depth of water table	:	70m-65m		
14.	Man Power requirement per day:	:	25 Nos.		
:	Water requirement:		2.0 KLD		
	1. Drinking and Domestic		1.0 KLD		
15.	Purpose 2. Dust suppression	:	0.5 KLD		
	3. Green belt		0.5 KLD		
16.	Power requirement	ļ	1,68,072 litres of HSD for entire project life		
17.	Precise area communication approved by the District Collector	:	Rc.No.730/2008/G&M dated:04.10.2017.		
18.	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	:	Rc.No.730/2008/G&M dated:25.04.2022.		
19.	500m cluster letter issued by the Assistant Director, Dept.of Geology and Mining with date		Rc.No.730/2008/G&M dated:10.05.2022.		
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated: 09.05.2022.		
21.	Project Cost (excluding EMP cost)	:	Rs.36,56,000/-		
22.	EC Recommendations	•	Validity	30 years subject to the following upper limits.	
			Rough Stone		

		:	Max Total RoM in m³	2,10,090
		:	Annual Max RoM in m ³	44,990
		:	Max Depth in mtrs	76m above ground level
23.	EMP cost (in Rs. Lakh).	:	Capital Cost - 21,50,000/- Recurring Cost - 16,41,484/-	
24.	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-	

Based on the presentations & detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production of not exceeding 44,990m³ of rough stone with maintaining the ultimate pit depth of 76 m AGL and subject to the standard 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 send the 'Notice of Opening' of the quarry to the Director of Mines Safety. Chennai Region before obtaining the CTO from the TNPCB.
- 3) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy (or) Salem.
- 4) The Project Propent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 5) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.

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- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8) The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 10) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.

- 15) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 17) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 18) 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.
- 19) Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.

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- 21) Since few structures are located within 500 m from the lease boundary, within a period of six months from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the blast-induced ground vibrations produced from the quarry blasting and to suggest the mitigation measures for the control of ground / air vibrations & fly rock caused due to blasting, by involving anyone of these 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 Dept of Mining Engg-Anna University, Chennai. 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.
- 22)During the 4th year of quarrying operations, the PP shall carry out the scientific studies to assess the slope stability of the benches and existing quarry wall before extending the working beyond the ultimate depth, by involving anyone of these 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. 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.
- 23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 24)If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 25)The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

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- 26)The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 27) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 28) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32)To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.

- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS). Chennai Region by the proponent without fail.
- 36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 37)All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake regrassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

- 40) The mining lease holders shall, after ceasing mining operations, undertake 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.
- 41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 42) As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Middle School, Perambalur District before obtaining CTO from TNPCB.

Agenda No.386-26

(File No. 5010/2016)

Proposed Grey Granite Quarry over an extent of 2.10.5 Hectare at S.F.No: 248/3A1B(P) & 248/3B1(P) of Soolamalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Thiru.C.Rajendran - For Environmental Clearance. (SIA/TN/MIN/42034/2021 dated 22.01.2016)

The proposal is placed for appraisal in this 386th meeting of SEAC held on 23.06.2023. The details of the project furnished by the proponent are available on the website (parivesh.nic.in). The SEAC noted the following:

- The Project Proponent Thiru.C.Rajendran has applied for Environmental Clearance Proposal for quarrying Grey Granite over an extent of 2.10.5 Hectare at S.F.No: 248/3A1B(P) & 248/3B1(P) of Soolamalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.
- 2. The lease period is for 20 years.
- 3. Earlier, the proposal was placed for appraisal in the 339th meeting of SEAC held on 22.12.2022. Based on the presentation & details furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the conditions stated therein.
- 4. Subsequently, the proposal was placed in 584th authority meeting held on 12.01.2023. The authority, after detailed deliberations, decided to consider the proposal after obtaining the following from the project proponent:
 - i) The proponent has stated that the next scheme of mining is submitted for approval from the competent authority and as per the Rule (12 (5) of

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MCDR 1988 ".....If approval or refusal of the scheme of mining is not conveyed to the holder of the mining lease within the stipulated period the scheme of mining shall be deemed to have been provisionally approved and such approval shall be subject to final decision whenever communicated....".

In this regard, the proponent shall furnish a copy of the acknowledgement issued by the Dept. of Geology & Mining for the submission of next scheme of mining for approval so as to consider it deemed to be approved.

- ii) A letter from the Director/ Assistant Director of Department of Geology and Mining regarding the existing, proposed, lease expired, and abandoned quarries situated within 500m radial distance of the proposed quarry.
- iii) A letter obtained from Village Administrative Officer stating the habitations, river bodies, temples, school/colleges and other structures of importance, etc situated in the radius of 300m from the proposed site.
- 5. The proponent vide letter dated.23.02.2023, has submitted the above details sought by the Authority.
- 6. In view of this, the proposal is again placed in the 601st authority meeting held on 13.03.2023. The Authority after detailed discussions decided to forward the proposal to SEAC for the following:
 - i) From the details furnished by the proponent, it is noted that the proponent has submitted draft copies of scheme of mining to the Director, Dept. of Geology & Mining for approval on 20.06.2018. The proponent shall furnish details on repeated correspondence made to Dept.of Geology & Mining, if any, for approval after the date of submission.
 - ii) It is not known whether the Director of Geology & Mining department has made any remarks/ objections to the plan submitted. The same shall be verified through relevant proofs/documents.

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- iii) The Committee shall review the other additional details furnished by the proponent and furnish its remarks/recommendations.
- 7. In view of the above, the proposal was again placed in the 372nd meeting of SEAC held on 27.04.2023. During the meeting, the Committee noted that the project proponent is absent and hence the subject was not taken up for discussion.

Now, the proposal is again placed in this 386th SEAC meeting held on 23.06.2023.

- The Proponent submitted a fresh scheme of mining plan for the period 2023-2028.
- ii. The Commissioner, Dept. of Geology & Mining vide letter dated.27.04.2023 has stated the following:
 - (i) T.Kalavathi has given a representation to the District Collector, Krishnagiri on 05.03.2021 stating that based on the orders of the Hon'ble Sub Court of Krishngiri in O.S.No.226/1995, S.F.No.248/3A1B was sub divided by the Surveyor in to 248/3A1B1 and 248/4 vide No.TK/8A/825/17.02.2020 and the details of sub division made is given as detailed below:

S.F.	Total	Lease	New	Extent	Patt	Pattadhar
No.	Extent	grante	Sub		a	Name
	(in	d	division		No.	
	Hects)	extent				
		(in				
		Hects)			İ	
248/	2.72.5	2.00.0	248/3A1	1.77.41	134	C.Rajendran
3A1B			B1		3	
			248/4	0.91.0	190	Kalavathi
				9	2	
	<u> </u>		248/3A1	0.04.0	1901	Padethalav
			B2	0		Kalvai (canal)
248/	0.50.5	0.10.5			134	C.Rajendran
3B1					3	

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- (ii) Since, within the lease granted area in S.F.No.248/3A1B(Part) (2.00.0) surface rights for 248/4 (0.91.09) (Kalavathi) and 248/3A1B2 (0.04.0) (Padethalav canal) have been modified by the Tahsildar during the currency of the lease and hence C.Rajendran is not having the surface rights in part of the lease granted area and hence after conducting personal hearing with the lessee, lease cancellation proposal had been forwarded to the Government through Commissioner of Geology and Mining vide District Collector's letter dated.08.01.2022.
- (iii) In this regard, the Commissioner of Geology and Mining vide letter dated.15.10.2022 by enclosing the Government letter dated.13.09.2022 has requested to furnish a report along with relevant conditions/details for issuance of revised precise area communication to the lessee for submitting revised mining plan and environmental clearance by the lessee Thiru.C.Rajendiran for the modified extent of lease granted area and also for the grant of quarry lease to the modified extent.
- (iv) In order to furnish detailed report to the Government. The Revenue Divisional Officer has been instructed to inspect the subject area and demarcate the quarried pits noticed in the lease granted area and in the area belongs to Tmt. Kalavathi and also to furnish report along with demarcated map vide letter dated. 12.12.2022 and 07.03.2023 and the report from Revenue Divisional Officer's awaited.
- (v) At this juncture, the Commissioner of Geology and Mining Chennal vide letter dated.05.01.2023 has instructed to forward all the pending mining plans and scheme of mining plan to Commissionerate immediately for taking further action.
- (vi) The lessee had obtained transport permits of 251.279 cbm (upto 29.12.2014) as against the proposed production of 3450 cbm (for the mining plan period from 2008-09 to 2017-18).

- (vii) The lessee is not having valid Environmental Clearance. Further, the lessee has not obtained transport permit without Environmental Clearance during the violation period i.e., 15.01.2016 to 10.01.2017. Hence, 100% cost of the mineral to be remitted does not arise in this area.
- iii. The other salient features of the proposal are as follows:

File No		5010 SIA/TN/MIN/42034/2016		Category	1(a) B2		
SI. No	·			it Features of the Proposal			
1.	Name of the Owner/Firm		:	Thiru. C. Rajendran, S/o. Chinnappa Naidu, Chendarapalli Village, Anchoor Post, Krishnagiri District, Tamil Nadu – 635 203.			
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limeston e)		:	Grey Granite Quarry			
3.	S.F Nos. of the quarry site with area break-up		:	248/3A1B(P) & 248/3B1(P)			
4.	Village in which situated		:	Soolamalai			
5.	Taluk in which situated		:	Bargur			
6.	District in which situated		:	Krishnagiri			
7.	Extent of quarry (in ha.)		:	2.10.5ha			
8.	Latitude & Longitude of all corners of the quarry site		:	12°30'15.90"N to 12°30'21.84"N 78°17'24.51"E to 78°17'33.29"E			
9.	Topo Sheet No.		:	57L/06			
10.	Type of mining			Opencast Mechanized Mining			
	Life of Project		:	22 years			
11.	Lease Period			20 years (15.04.2008 to 14.04.2028)			
	Mining Plan Period		:	5 years			
12.	Mining Pl	Mining Plan Details		, ,	er approved ing Plan	As modified by SEAC	
 	Geological Resources m ³ (RoM)		:	RoN 5,28	1 – ,929m³	RoM – 5,28,929m³	

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			Recovery	Recovery (@20%) –	
			(@20%) –	1,05,785.8 m³	
			1,05,785.8 m³	111 1 (COO()	
			Waste (@80%) -	Waste (@80%) -	
		}	4,23,143.2m³	4,23,143.2m³	
			Top soil -	Top soil – 16,074m ³	
		_	16,074m³	DOM 124266 3	
			RoM - 1,34,366m ³	ROM - 1,34,366m ³	
			Recovery @20%)	Recovery @20%) -	
	Minable Resources m³ (RoM)	:	- 26,873.2m³	26,873.2m³	
	, ,		Waste (@80%) -	Waste (@80%) -	
			1,07,492.8m³	1,07,492.8m³	
			Topsoil – 9,718 m ³	Topsoil – 9.718 m ³	
	l		RoM – 6687.0m³	RoM – 6687.0m³	
	Annual Peak Production in	:	Recovery	Recovery (@20%) -	
	m3		(@20%) –	1183.4m³	
		<u> </u>	1183.4m³		
	Maximum Depth in meters	:	26m below	26m below ground level	
12	B. d. of	<u> </u>	ground level		
13.	Depth of water table	:	64m		
14.	Man Power requirement per day:	:	30 Nos.		
	Water requirement:		1.0 KLD		
	Domestic Purpose				
15.			0.3 KLD		
15.			0.5 1/1.5		
	2. Dust suppression		0.3 KLD		
	3. Green belt		0.4 KLD		
16.	Power requirement 38400 Liters of HSD for the current sche		of for the current scheme		
	Precise area communication		G.O.(3D)No.13 dat	ed:10.03.2008.	
17.	approved by the Secretary to	:			
	Govt. with date	_			
	Mining Plan approved by the Commissioner, Dept. of Geology and Mining with date		Rc.No.2781/MM4/2023, dated:27.04.2023.		
18.					
	500m cluster letter issued by		 Da No 044/2019/NA	inor dated 20 02 2023	
19.	the Deputy Director, Dept.of Geology and Mining with		Rc.No.944/2018/Mines dated:20.02.2023.		
				\cap	
	date	1	L		

20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated: 17.11.2020.	
21.	Project Cost (excluding EMP cost)		Rs.2,44,09,000/-	
	EC Recommendation		Validity	30 years subject to the following upper limits.
			,,	Grey Granite
22.			Max Total RoM in m ³	30438.0 m³
			Annual Max RoM in m³	6687m³
			Max Depth in mtrs	26m
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – 34,75,000/- Recurring Cost – 12,49,400/-	
24.	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-	

Based on the presentations & detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance in the revised area of 1.15.41 Ha for the annual peak production not exceeding RoM – 6687.0m³ with recovery of 1337.4m³ by maintaining the ultimate pit depth of 26 m and subject to the standard conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- The prior Environmental Clearance granted for this mining project shall be valid
 for the project life including production value as laid down in the mining plan
 approved and renewed by competent authority, from time to time, subject to
 a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification
 S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.

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- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 10) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt.

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- 13) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 14) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 15) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 16) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 17) Taller/one year old saplings raised in appropriate size of bags (preferably 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.
- 18) Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 19) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced

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ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.

- On a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 21) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 22)The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 23)The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 24) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 25)Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 26) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.

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

34)All the conditions imposed by the Assistant/Deputy Director. Geology & Mining, concerned District in the mining plan approval letter and the Precise

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

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

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

37) 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.

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

39) As accepted by the Project Proponent the CER cost of Rs. lakhs and the amount shall be spent for the Government School, village before obtaining CTO from TNPCB.

Agenda No: 386-TA-1 (File No: 6223/2017)

Existing Magnesite mine lease over an extent of 3.23.7 Ha at S.F. No. 55/1, Moongilpadi Village, Omalur Taluk, Salem District, Tamil Nadu by Thiru A. Kesavan – for Environmental Clearance under violation category. (SIA/TN/MIN/416135/2023, Dt.30/01/2023)

Earlier, this proposal was placed in this 369th SEAC meeting held on 20.04.2023. The details of the project furnished by the proponent are available on the web portal

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(parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

- The Project Proponent, Thiru A. Kesavan has applied for Environmental Clearance under violation category for the Existing Magnesite mine lease over an extent of 3.23.7 Ha at S.F. No. 55/1, Moongilpadi Village, Omalur Taluk, Salem District, Tamil Nadu.
- 2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
- ToR issued under violation category vide Lr No.SEIAA-TN/F.No.6223/TOR-356/2018 Dated: 17.05.2018.
- As per the Hon'ble High Court of Madras order dated 13.10.2017 in W.P.No.11189 of 2017, amendment in the ToR was issued vide Letter No. SEIAA-TN/F – 6223/SEAC-CXVIII /TOR- 356(A)/2018 Dt.30.07.2018.
- 5. Public hearing conducted on 19.05.2022.
- 6. The PP has furnished the EIA Report under violation on 01.02.2023.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action to be taken for violation cases in accordance with law.

Subsequently this site was inspected by the sub committee on 6.6.23. The sub committee observations and details furnished by the PP were placed in 386th SEAC meeting and the SEAC decided to obtain the following details from the PP.

 The PP shall furnish the documentary evidence for nonoperation of quarry from 2017 from the competent authority.

On the receipt of the same further deliberation will be done.

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ANNEXURE-I

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

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- 7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 8. The Project Proponent shall carry out slope stability study by a reputed academic/research institution such as NIRM, IIT, Anna University for evaluating the safe slope angle if the proposed dump height is more than 30 meters. The slope stability report shall be submitted to concerned Regional office of MoEF&CC, Govt. of India, Chennai as well as SEIAA, Tamilnadu.
- 9. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
- 10. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 11. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 12. Taller/one year old Saplings raised in appropriate size of bags, preferably 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 cord/fuse, safety fuse, ordinary detonators, cord relays, should be avoided in the blasting operation. The mitigation measures for control of ground vibrations and to arrest fly rocks should be implemented meticulously under the supervision of statutory competent persons possessing the 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, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 14. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 15. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 17. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take

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

- 18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
- 20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
- 21. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are 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), Chennai Region by the proponent without fail.
- 24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the

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- Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 25. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
- 26. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 27. The mining lease holders shall, after ceasing mining operations, undertake 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.

Appendix -I List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	Aegle marmelos	Vilvam	alisiani
2	Adenuanthera pavonina	Manjadi	மஞ்சாழ், ஆ ளைக்குள் றிமணி
3	Albizia lebbeck	Vaagai	QUI COS
4	Albizia amara	Usil	e_A6)
5	Ваннініа ригритеа	Mantharai	மந்தாளர்
6	Bauhinia racemosa	Aathi	அக்கி
7	Bauhinia tomentos	Iruvathi	95erád
8	Buchanania axillaris	Kattuma	asni (9400
9	Borassus flabellifer	Panui	LIMME
10	Butea monosperma	Murukkamaram	முகுக்கமரம்
11	Bobax ceiba	Ilavu, Sevvilavu	<u>ଲ</u> ିକର୍ଭା
12	Calophyllum inophyllum	Punnai	riesea
13	Cassia fistula	Sarakondrai	eg&Gasaimp
14	Cassia rozburghii	Sengondrai	GetiAssiran
15	Chloroxylon sweitenia	Purasamaram	பூகமும்
16	Cochlospermum religiosum	Kongu, Manjalllavu	கோங்கு, மஞ்சன் இலவு
17	Cordia dichotoma	Naruvuli	தகுவுளி.
18	Creteva adansoni	Mavalingum	மாவிலங்கம்
19	Dillema indica	Uva, Uzha	2.57
20	Dillenia pentagyna	SiruUva, Sitruzha	சிற உ சா
21	Diospyro sebenum	Karungali	egment)
22	Diospyro schloroxylon	Vaganai	CEREGORIE
23	Ficus amplissima	Kalltchi	கல் இச்சி
24	Hibiscus tiliaceou	Aatrupoovarasu	anguilles.
25	Hardwickia binata	Aacha	शुक्त
26	Holoptelia integrifolia	Aayili	னோக லகம், னிருஷ்
27	Lannea coromandelica	Odhiam	Ölg ireņ
28	Lagerstroemia speciosa	Poo Marudhu	பு நடுது
29	Lepisanthus tetraphylla	Neikottaimaram	தெய் கொட்டடை மரம்
30	Limonia acidissima	Vila maram	விலா மரம்
31	Litsea glutinos	Pisimpattai	அம்பா. பிசின்பட்டை
32	Madhuca longifolia	Illuppai	இலுப்பை
33	Manilkara hexandra	Ulakkai Paalai	鱼 彩花研集 UFF研究
34	Mimusops elengi	Magizhamaram	மகிழமாம்
35	Mitragyna parvifolia	Kadambu	<u>eriorī</u>
36	Morinda pubescens	Nuna	<u> Sjoner</u>
37	Morinda citrifolia	Vellai Nuna	வெள்ளை நுண
38	Phoenix sylvestre	Eachai	Francy to
39	Pongamia pinnat	Pungam	LPÉASED / A

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40	Premna mollissima	Munnai	முன்னை
41	Premna serratifolia	Narumunnai	ந்று முன்னை
42	Premna tomentosa	Malaipoovarasu	toenen ligeere
43	Prosopis cinerea	Vanni maram	வன்னி மரம்
44	Pterocarpus marsupium	Vengai	Gertiene.
45	Pterospermum canescens	Vennangu, Tada	Countemptes
46	Pterospermum xylocarpum	Polavu	LIDE
47	Puthranjiva roxburghi	Karipala	PARTIENA
48	Salvadora persica	Ugaa Maram	mar utū
49	Sapindus amarginatus	Manipungan,	manit piscie
]	Soapukai	Centric centr
50	Saraca asoca	Asoca	अक्षास
51	Streblus asper	Piray maram	ក្សារក្សា សិវត្ថ
52	Strychnos nuxvomic	Yetti	er c
53	Strychnos potatorum	Therthang Kottai	Ogjagnet Ognian.
54	Syzygium cumini	Naval	5FQQ
55	Terminalia belleric	Thandri	हर कं डी
56	Terminalia arjuna	Ven marudhu	Count மகுது
57	Toona ciliate	Sendhana vembu	சந்தன வேம்பு
58	Thespesia populnea	Puvarasu	riente.
59	Walsuratrifoliata	valsura	OURSELL.
60	Wrightia tinctoria	Veppalai	GOLLEGO
61	Pithecellobium dulce	Kodukkapuli	Osr() is stringer

Appendix -II

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

	ாடுகளுக்கான கற்றுச்துறல் அனுமதி மீழ்கள்ள இபந்தனைகளுக்கு உட்பட்டு தீயிடப்சட்டு சுற்றுச்துறல் அனுமதிதேதி வரை செல்லத்தக்கதாக உன்னது					
பகமை பகுதி வளர்ச்சி	குவாரியின் எல்லையைச் சுற்றி வேலி அமைக்க வேண்டும்					
Carburi Génere agrice giù Li	வரங்கப்பாறையின் ஆழம் தரைவட்டத்திலிரு <u>த்து</u> நிட்டர்க்கு மிகாவல் தி ருக்க வேண்டும்					
	காற்றில் மாக ஏற்படாதவாறு கரங்க பாரிகளை மேற்கொள்ள வேண்டும்.					
هنسو	வாகனங்கள் செல்லும் பாதையில் பாக ஏற்படாத அமைிற்கு தண்ணிரை முறையாக தண்ணிர் லாரிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும்.					
	இரைச்சல் அனைவயும் நூரி மாவபாட்டையும் குறைப்பதற்காக குவாரியின் எல்லையை சுற்றி அடர்த்தியான பலமை பகுதியை ஏற்படுத்த வேண்டும்.					
வுக்கத்தில் வெடி வைச்சும்போ நடவடிக்கைகளை உள்ளிப்பாக செடி	ஒது நிலஅதிர்வுகள் ஏற்படாதவா றும் மற்றும் சுற்கள் பறக்காதவாகும் பாதுகாப்பு ஸ்படுத்தப்பட வேண்டும்.					
ஷங்கத்தில் இருந்து ஏற்படும் இரை மேற் Currior Contribà.	red அனவு 85 டெகிபல்ஸ் (MA) அண்டிற்கு மேல் ஏற்படாதவாறு அடித்த கட்டுப்பாடுகளை					
களிக சட்ட விறிகள் ::என் கீழ் வுண்கத்றில் உள்ள பளியார்வதுக்கு தகுந்த பாறுகாப்பு ககுவிகள் வறங்கவறோடு கைதாரமுக்க வறிப்பதை வசறிகளை செய்து தர வேண்டும்.						
அமைத் அல்லது பஞ்சகடத்து வழியாக	வாகளங்கள் செல்லும் சாலையை தொடர்ந்து நண்கு பரமைறிக்க வேண்டும்.					
ஷம்ப்பளிகளால் அதசில் உள்ள	விவணம் பளிகள் மற்றும் நிறிலைகள் பாறிக்கப்படக் கட்டாது.					
நிறாலகள் பாழிக்கப்படாகல் இருப்ப	ng உறுதி செய்யும் வகையில் நிலத்தடி நீரின் நரத்தினை தொடர்ந்து activamellés Contriçue.					
வரங்கத்திலிருந்து கனிச் பொருட்களை எடுத்துச் செல்வது விராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் சுற்றுத்துல் பாதிக்களத வண்ணம் வாகணங்களை இயக்க வேண்டும்.						
aphriumfer grateining d	r ஷங்க மூடல் திட்டத்தில் உள்ளவாறு. ஷங்கத்தினை மூட வேஸ்டும் .					
ஷங்க நடவடிக்கைகள் முடித்து வேறு எந்தப் பகுதியையும் வறுகப் பக்கைப்பகுதியை உருவாக்க வேள்	3ன்னர் சுரங்கப் பகுதி மற்றும் சரங்க நடவடிக்கைகளால் இடையூது ஏற்படக்கூடிய இயானம் செய்து தாவரங்கள் விலங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் மூம்.					
முகுளையை இடத்தனைகளை அறிப	பாடுவேஷ் (Nau//pariedusicin) என்றே இணையதாத்தைப் பார்வையிடவும் மேலும் எத்தவித					

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