

State Expert Appraisal Committee (SEAC)

Minutes of 401<sup>st</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 16.08.2023 (Wednesday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Mining Projects.

Confirmation of Earlier Minutes

The minutes of the 400<sup>th</sup> SEAC meeting held on 11.08.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No. 401 – 01.

(File No: 10107/2023)

Proposed Rough Stone quarry lease over an extent of 1.00.0Ha (Govt. Poramboke Land) at SF.No.173/20 (Part-IV) of Nangathur Village, Vikravandi Taluk, Viluppuram District, Tamil Nadu by Thiru.K.Manickam - For Environmental Clearance. (SIA/TN/MIN/431860/2023 dt:02.06.2023)

The proposal was placed in this 401<sup>th</sup> Meeting of SEAC held on 16.08.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.K.Manikkam has applied for Environmental Clearance for the proposed of Rough Stone quarry lease over an extent of 1.00.0Ha at SF.No.173/20 (Part-IV) of Nangathur Village, Vikravandi Taluk, Viluppuram 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 10 Years & production should not exceed 276860m<sup>3</sup> of Rough Stone The annual peak production is 28615m<sup>3</sup> of Rough Stone (10<sup>th</sup> Year). The ultimate depth is 35m (15AGL +20m BGL).
4. Earlier EC issued by DEIAA vide Lr.No.DEIAA-TN/F.No.7527/Ec.No.13/2017, dt: 04.02.2018 under B2 category for the

  
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production of 1,37,825 cu.m of Rough Stone and depth upto 35m (15AGL +20m BGL).


5. Collector Proceedings Rc.No. B/G&M/363/2017 Dt: 08.03.2018 upto 07.03.2028.
6. Earlier Excavated Quantity – 95850 cu.m of Rough Stone against the approve EC production quantity of 1,37,825 cu.m of Rough Stone as on 12.08.2022 & Existing pit dimension – 145m (Length) X 45m (Width) X 10m (Depth).
7. Approved Mining Plan Dt: 09.12.2022 for the period 2023 – 2028) for the production quantity of 86415 cu.m of Rough Stone.

Based on the presentation and documents furnished by the project proponent, SEAC decided to call for additional particulars as follows:

1. As committed by the PP, an affidavit of *“not continuing the mining operations effective from the date of issue of MoEF&CC OM F. No. IA3-22/11/2023-IA.III (E-208230), Dt:28.04.2023 and the mining operation may be continued only after the mining lease have been on re-appraisal granted ‘Environmental Clearance’ by SEIAA and appropriate remedial action carried out on the basis of such re-appraisal in the mining lease”*, shall be submitted before obtaining TOR from SEIAA.
2. The Modified Mining Plan estimating the revised Mineable reserves & Annual Production Volume after the inclusion of the bench geometry in consonance with the provisions of Reg. 106 of MMR 1961 in place of 7 m x 7 m as committed by the PP for the remaining lease period (or) the life of the project, duly approved by the concerned AD (Mines)/Competent Authority shall be furnished.
3. For the safety of the persons employed in the quarry, the PP shall submit a study report based on the scientific studies to assess the slope stability of the working benches and existing quarry wall incorporating the ‘Slope Stability Action Plan’ & remedial actions, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus.

  
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4. The PP shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC, Chennai and remedial actions (or) mitigation measures for the non-compliance Stated therein.
5. 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, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
6. The Proponent shall furnish details of photographs of adequate barbed fencing & greenbelt development around the boundary of the proposed quarry.
7. The PP shall submit the following details duly certified by the concerned AD (Mines)/DD (Mines) for the existing mining lease:
  - (i) Existing pit dimension.
  - (ii) Quantity of ROM mined out against the Target Quantity (m<sup>3</sup>) as given in the approved Mining Plan.
  - (iii) Any deviation while raising, transporting or causing to raise or transport mineral (or) carrying out the mining without any lawful authority.
  - (iv) Period of any violation as reported and penalties levied, if any.
8. The PP shall submit detail of transport route of quarried minerals with details of mitigation measures adopted for fugitive emission due vehicular movement/ transport route on the surrounding environment.
9. Detail of Greenbelt activities carried out by the PP.
10. Detail of CSR/CER activities carried out, if any.

**Agenda No: 401 - 02**

**(File No: 10125/2023)**

**Proposed Rough stone & Gravel quarry lease over an extent of 3.50.0Ha in S.F. No:1/1B (Part) of Peddasigarlapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. G.B Blue Metals - For Environmental Clearance. (SIA/TN/MIN/431878/2023 dt:03.06.2023)**

The proposal was placed in this 401<sup>th</sup> Meeting of SEAC held on 16.08.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website ([parivesh.nic.in](http://parivesh.nic.in)).

  
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The SEAC noted the following:

1. The project proponent, M/s.G.B Blue Metals has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 3.50.0Ha in S.F.No:1/1B (Part) of Peddasigarapalli Village, Shoolagiri Taluk, Krishnagiri 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 10 Years & production should not exceed 704720 m<sup>3</sup> of Rough Stone & 66738m<sup>3</sup> of Gravel. The annual peak production is 105335m<sup>3</sup> Rough Stone (2<sup>nd</sup> Yr) & 23752m<sup>3</sup> of Gravel (2<sup>nd</sup> Yr). The depth of mining is 47m (10AGL +37m BGL).

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	: M/s.G.B. Blue Metals, Partnership of Mr.B.Krishnappa, K.Srinivas, K.Rohith & K.Narasimha, No.30, 2 <sup>nd</sup> Cross, Iyappa Garden, Near Mico, Adukodi, Bangalore-560030
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Rough Stone & Gravel
3.	S.F Nos. of the quarry site with area break-up	: 1/1B (Part)
4.	Village in which situated	: Peddasigarapalli
5.	Taluk in which situated	: Shoolagiri
6.	District in which situated	: Krishnagiri
7.	Extent of quarry (in ha.)	: 3.50.0Ha
8.	Latitude & Longitude of all corners of the quarry site	: 12°45'59.1015"N to 12°45'52.0454"N 78°02'4.4462"E to 78°01'59.0044"E
9.	Topo Sheet No.	: 57-L/1

  
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10.	Type of mining	:	Opencast, Semi-Mechanized of Mining	
11.	Life of Project	:	10 Years	
	Lease Period	:	10 Years	
	Mining Plan Period	:	10 Years	
12.	Mining Plan Details	:	As per approved Mining Plan	
	Geological Resources m <sup>3</sup> (RoM)	:	Rough stone in m <sup>3</sup>	Gravel in m <sup>3</sup>
			1392855m <sup>3</sup>	71820m <sup>3</sup>
	Mineable Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel
			704720m <sup>3</sup>	66738m <sup>3</sup>
Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Gravel	
		105335m <sup>3</sup>	23752m <sup>3</sup>	
Maximum Depth in meters	:	47m (10AGL +37m BGL)		
13.	Depth of water table	:	67m	
14.	Man Power requirement per day:	:	18 Nos	
15.	Water requirement:	:	2.0 KLD	
	1. Drinking water		1.0 KLD	
	2. Utilized water		0.5 KLD	
	3. Dust suppression		0.5 KLD	
	4. Green belt			
16.	Power requirement	:	TNEB	
17.	Precise area communication approved by the Assistant Director & Department of G&M.	:	Na.Ka.No.506/2020/Kanimam,	dt: 31.01.2023.
18.	Mining Plan approved by Deputy Director, Department of G&M.	:	Rc.No.506/2020/Mines,	dt: 03.02.2023.
19.	500m Cluster Letter by Deputy Director, Department of G&M.	:	Rc.No.506/2020/Mines,	dt: 06.03.2023
20.	VAO Certificate Regarding Structures within 300m Radius	:	dt: 13.02.2023	
21.	Project Cost (excluding EMP cost)	:	Rs.68.80 Lakhs	

22.	EC Recommendation	:	As per approved mining plan		
		:		Rough Stone	Gravel
		:	Max Total RoM in m <sup>3</sup>	704720 m <sup>3</sup>	66738 m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	105335 m <sup>3</sup>	23752 m <sup>3</sup>
		:	Max Depth in mtrs	47m (10AGL +37m BGL)	
23.	EMP cost (in Rs. Lakh).	:	Capital Cost - Rs.21.87 Lakhs Recurring Cost - Rs.10.00 Lakhs With 5% inflation for the recurring cost.		
24.	CER cost (in Rs. Lakh).	:	Rs.10 Lakhs for Panchayat Union Middle School, Kumbalam Village & Panchayat Union Middle School, Kadathur Village.		

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 shall not exceed 105335m<sup>3</sup> Rough Stone & 23752m<sup>3</sup> of Gravel and the ultimate depth of mining upto 47m (10AGL +37m BGL) and for the period five Years subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by

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

3. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3<sup>rd</sup> year or when the depth of working exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
4. As accepted by the Project Proponent the CER cost of Rs.10 Lakhs and the amount shall be spent for the Panchayat Union Middle School, Kumbalam Village & Panchayat Union Middle School, Kadathur Village before obtaining CTO from TNPCB.

**Agenda No: 401 - 03**

**(File No: 10131/2023)**

**Proposed Rough stone quarry lease over an extent of 1.00.0Ha in S.F. No:70/1 (P) & 71/1, Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by Thiru.K.Ramaraj- For Environmental Clearance. (SIA/TN/MIN/432261/2023 Dt. 05.06.2023)**

The proposal was placed in this 401<sup>th</sup> Meeting of SEAC held on 16.08.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru.K.Ramaraj has applied for Environmental Clearance

  
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for the proposed Rough stone quarry lease over an extent of 1.00.0Ha in S.F.No:70/1 (P) & 71/1, Myleripalayam Village, Madukkarai Taluk, Coimbatore 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 (Dt: 08.10.2018) was issued for the period of 5 years. The approved mining plan (Dt: 16.10.2018) is for the period of five Years & production should not exceed 90353m<sup>3</sup> of Rough Stone. The annual peak production is 23400m<sup>3</sup> of Rough Stone (1<sup>st</sup> Year). The depth of mining is 38m BGL with Existing Pit – 21m.
4. Earlier EC issued by DEIAA vide Lr.No.DEIAA-CBE/F.No.358/1(a)/Ec.No.53/2018, dt: 10.12.2018 under B2 category ( Cluster Area – 21.78.5 ha) for the production of 90,353 cu.m of Rough Stone and depth upto 38m BGL.

Based on the presentation and documents furnished by the project proponent, SEAC decided to call for additional particulars as follows:

1. The up-to-date 500m radius Cluster letter from the concerned AD/DD Dept. of Geology & Mining.
2. As committed by the PP, an affidavit of "*not continuing the mining operations effective from the date of issue of MoEF&CC OM F. No. IA3-22/11/2023-IA.III (E-208230), Dt:28.04.2023 and the mining operation may be continued only after the mining lease have been on re-appraisal granted 'Environmental Clearance' by SEIAA and appropriate remedial action carried out on the basis of such re-appraisal in the mining lease*", shall be submitted before obtaining TOR from SEIAA.
3. The PP shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC, Chennai and remedial actions (or) mitigation measures for the non-compliance Stated therein.
4. 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, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.

  
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5. The Proponent shall furnish details of photographs of adequate barbed fencing, & greenbelt development around the boundary of the proposed quarry.
6. The PP shall submit the following details duly certified by the concerned AD (Mines)/DD (Mines) for the existing mining lease:
  - (i) Existing pit dimension.
  - (ii) Quantity of ROM mined out against the Target Quantity (m<sup>3</sup>) as given in the approved Mining Plan.
  - (iii) Any deviation while raising, transporting or causing to raise or transport mineral (or) carrying out the mining without any lawful authority.
  - (iv) Period of any violation as reported and penalties levied, if any.
7. The PP shall submit detail of transport route of quarried minerals with details of mitigation measures adopted for fugitive emission due vehicular movement/ transport route on the surrounding environment.
8. Detail of Dedicated Greenbelt activities carried out by the PP since the commencement of quarrying operations.
9. Detail of CSR/CER activities carried out, if any.

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

Agenda No: 401-04

(File No: 10108/2023)

**Proposed Multicolor Granite Quarry over an extent of 1.38.5 Ha at S.F.Nos. 424/2A and 424/3A of K.Pitchampatti Village, Karur Taluk , Karur District, Tamil Nadu by Tvl. Madhucon Granites Ltd -For Environmental Clearance. (SIA/TN/MIN/432282/2023, Dated:05.06.2023).**

The proposal was placed in this 401<sup>st</sup> Meeting of SEAC held on 16.08.2023. 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, Tvl. Madhucon Granites Ltd has applied for Environmental Clearance for the Proposed Multicolor Granite Quarry over an extent of 1.38.5 Ha at S.F.Nos. 424/2A and 424/3A of K.Pitchampatti Village,

  
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Karur Taluk , Karur District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The Mining Lease was granted vide G.0(3D).No.81 Industries (MMB-2) Department Dated 04.11.2008 for a period of twenty years. The quarry lease deed was executed on 05.12.2008 and the lease period is valid upto 04.12.2028.
4. Earlier, Environmental Clearance was accorded to M/s. Madhucon Granites Limited for quarrying of Multicolour Granite Quarry over an extent of 1.38.5 Ha at S.F. No. 424/2A & 424/3A of K.Pitchampatti Village, Karur Taluk, Karur District, Tamil Nadu under Category 'B2' and schedule S.No. 1(a) with a validity that the Environmental Clearance will be coterminous with the mine lease period or limited to a maximum period of 3Years (2015-2018) from the date of issue whichever is earlier vide Lr. No. SEIAA-TN/F.No.5105/1 (a)/EC.No:3216/2016 dated: 06.07.2016 for the quantity of 27566 cu.m of Multicolor Granite upto a depth of 27m for the period of 3 years (2015-2018).

EC granted details	Parameters achieved
<b>Quantity:</b> 27566 cu.m of Granite	<b>Quantity:</b> 36860.204cu.m of Granite
<b>Depth:</b> 27m	<b>Depth:</b> 26m

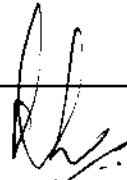
5. Clarification letter from SEIAA dated:30.04.2021 states that

*"...In this regard, it is informed that as per the Mining plan submitted while applying for Environmental Clearance, the details of Recoverable Reserves, ROM & Granite Waste is as follows*

1. Approved quantity-27566 CBM of multicolor granite as per the mining plan.
2. ROM- 47528 CBM (Recoverable Reserves 27566 CBM & Granite waste 199 - CBM)

  
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*In view of the above, it is clarified that the project proponent shall handle the mineral within ROM mentioned in the approved mining plan/scheme submitted to the State Level Environment Impact Assessment Authority -Tamil Nadu without further extra mining."*

6. Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC vide Lr. EP/12.1/2022-23/SEIAA/282/TN/571 Dt:02.05.2023.
7. As per the scheme of mining plan the lease period is valid upto 04.12.2028. The mining plan is for the period of Five years (2018-2023) & the production should not exceed 53340m<sup>3</sup> of ROM, 32004m<sup>3</sup> of Multi-Colour Granite @ Recovery 60% & 21336m<sup>3</sup> of Granite waste @ 40% with an ultimate depth of mining is 48m BGL. The annual peak production is 15400 m<sup>3</sup> of ROM, 9240 m<sup>3</sup> of Multi-Colour Granite @ Recovery 60% & 6160 m<sup>3</sup> of Granite waste @ 40%.
8. The salient features of the proposed project as follows

File No	10108		Category	"B2" 1(a)
	SIA/TN/MIN/432282/2023, Dated:05.06.2023			EC
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s. Madhucon Granites Ltd, No.1-7-70, Jubilipura, Khammam, Telangana-507003.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Multicolor Granite	
3.	S.F Nos. of the quarry site with area break-up	:	424/2A and 424/3A	
4.	Village in which situated	:	K.Pitchampatti	
5.	Taluk in which situated	:	Karur	
6.	District in which situated	:	Karur	
7.	Extent of quarry (in ha.)	:	1.38.5 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°46'15.23"N to 10°46'20.23"N 78°03'45.85"E to 78°03'50.21"E	
9.	Topo Sheet No.	:	58- J/01	

10.	Type of mining	:	Opencast, Semi-mechanized Mining		
11.	Life of Project	:	6 years		
	Lease Period	:	20 years valid upto 04.12.2028		
	Mining Plan Period	:	5 years (2018-2023) valid upto 04.12.2023		
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC	
	Geological Resources m <sup>3</sup> (RoM)	:	ROM 447284 m <sup>3</sup>	ROM 447284 m <sup>3</sup>	
			Recovery 60% 268369 m <sup>3</sup>	Recovery 60% 268369 m <sup>3</sup>	
			Granite Waste 40% 178915m <sup>3</sup>	Granite Waste 40% 178915m <sup>3</sup>	
	Movable Resources m <sup>3</sup> (RoM)	:	ROM 66248 m <sup>3</sup>	ROM 66248 m <sup>3</sup>	
			Recovery 60% 39749m <sup>3</sup>	Recovery 60% 39749m <sup>3</sup>	
			Granite Waste 40% 26498m <sup>3</sup>	Granite Waste 40% 26498m <sup>3</sup>	
	Annual Peak Production in m <sup>3</sup>	:	ROM 15400 m <sup>3</sup>	ROM 15400 m <sup>3</sup>	
			Recovery 60% 9240 m <sup>3</sup>	Recovery 60% 9240 m <sup>3</sup>	
			Granite Waste 40% 6160m <sup>3</sup>	Granite Waste 40% 6160m <sup>3</sup>	
		Maximum Depth in meters	:	48m BGL	
	13.	Depth of water table	:	64m BGL	
14.	Man Power requirement per day:	:	27 Nos.		

  
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15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	1.0KLD 0.2KLD 0.5KLD 0.3KLD
16.	Power requirement	:	TNEB 85,344Liters of HSD
17.	Precise area communication approved by the Commissioner Geology & Mining.	:	Rc.No. 1390/MM2/2008 dated 03.10.2008
18.	Mining Plan approved by Commissioner Geology & Mining.	:	Rc.No. 555/MM2/2023, dated: 22.02.2023 (2018-19 to 2022-23) Five years.
19.	Deputy Director, Dept. of Geology & Mining 500m Cluster Letter	:	Rc.No. 606/Mines/2018, dated: 18.05.2023
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 18.05.2023
21.	Project Cost (excluding EMP cost)	:	Rs. 2,25,88,000/-
22.	EC Recommendation	:	Validity 30 years subject to the following upper limits. Multicolor Granite
		:	Max Total RoM in m <sup>3</sup> 53340m <sup>3</sup> of ROM, 32004m <sup>3</sup> of Multi-Colour Granite @ Recovery 60% & 21336m <sup>3</sup> of Granite waste @ 40%
		:	Annual Max RoM in m <sup>3</sup> 15400 m <sup>3</sup> of ROM, 9240 m <sup>3</sup> of Multi-Colour Granite @ Recovery 60% & 6160 m <sup>3</sup> of Granite waste @ 40%
		:	Max Depth in mtrs 48m BGL

23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 2773950/- Recurring cost/annum – Rs. 1111020/-
24.	CER cost (in Rs. Lakh).	:	Rs. 7,00,000 /- as accepted by the PP

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 15400 m<sup>3</sup> of ROM which includes 9240 m<sup>3</sup> of Multi-Colour Granite @ Recovery 60% & 6160 m<sup>3</sup> of Granite waste @ 40% by restricting the ultimate depth of mining upto 48m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall remove the embedded boulders from the slope of the existing ground profile for ensuring safety following the guidelines as stipulated in the permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
- 3) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies within a period of six month from the commencement of quarrying operations to assess the slope stability of the working benches and existing quarry wall incorporating the 'Slope Stability Action Plan' & remedial actions, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

  
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- 4) The PP shall carry out the required number of plantations as committed in the EMP around the periphery of the lease boundary without deviation before the execution of the lease.
- 5) As accepted by the Project Proponent the CER cost of Rs. 7 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, K.P.Thaalaiipatti Village before obtaining CTO from TNPCB.

**Agenda No: 401-05**

**(File No: 10120/2023)**

**Proposed Rough Stone and Gravel Quarry over an extent of 4.33.5Ha at S.F. No's: 326/A1(P), 326/B1(P) & 333/2(P) of Thennilai East Village, Pugalur Taluk, Karur District, Tamil Nadu by Tvl. Balavinayaga Blue Metals-For Environmental Clearance. (SIA/TN/MIN/431629/2023, Dated:02.06.2023).**

The proposal was placed in this 401<sup>st</sup> Meeting of SEAC held on 16.08.2023. 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, Tvl. Balavinayaga Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 4.33.5Ha at S.F. No's: 326/A1(P), 326/B1(P) & 333/2(P) of Thennilai East Village, Pugalur Taluk, Karur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Lease granted for the period of 5 years. The lease deed was executed on 26.11.2018 and lease period is valid up to 25.11.2023.
4. Earlier, the project proponent has obtained EC from DEIAA vide Lr.No.DEIAA-DIA/TN/MIN/18649/2018-KRR/EC.No.132/2018/Mines dated: 02.11.2018 for the period of 5 years from the date of execution of the mining lease period.
5. Certified Compliance Report (CCR) obtained from IRO(SZ): MoEF&CC vide Lr. EP/12.1/2023-24/SEIAA/45/TN/850 Dt:13.07.2023.
6. This EC issued by the DEIAA has been filed before the SEIAA-TN for reappraisal in compliance to the order of the Hon'ble NGT in O.A142 of 2022 as per the Guidelines stipulated in MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230).

  
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dated. 28.04.2023.

7. Existing Pit depth is 5.5m against the approved depth of 43m.
8. As per approved mining plan for the period from 26.11.2018 to 25.11.2023, it is mentioned that the total recoverable resource of Rough Stone is 870400 cbm and gravel is 108057 cbm upto depth of 43 meters. Further, the PP have Environmental clearance from 26.11.2018 to 25.11.2023.
9. The year wise actual production achieved by PP in last five years from 2018-2019 to 2022 - 23 as detailed below

S.No	Year	Approved Quantity(m <sup>3</sup> )		Achieved Quantity(m <sup>3</sup> )
		Rough Stone	Gravel	Rough Stone
1	2018-2019	163400	108057	14100
2	2019-2020	176200	----	3900
3	2020-2021	176900	----	0
4	2021-2022	177200	----	0
5	2022- 2023(up to 05.01.2023)	176700	----	12000 5894(Without Valid Permit)
	<b>Total</b>	<b>870400</b>	<b>108057</b>	<b>35894</b>

10. The PP had quarried and transported the 5894 cbm of Roughstone without valid permit. Subsequently, the penalty had been remitted as per the Proceedings of Commissioner of Geology and Mining, Chennai vide Rc.No.8904/MM6/2022, dt: 30.12.2022 and remitted details as follows

S.No	Description	Remitted amount in Rs
1.	Seigniorage Fee	347746
2.	Penalty	100000
3.	Green fund(10%)	34774
4.	DMF(10%)	34774
<b>Total</b>		<b>517294</b>

Hence Environmental Clearance violation does not arise.

11. As per the Scheme of mining plan the lease period is valid up to 25.11.2023. The mining plan is for the period of Five years (26.11.2023 to 25.11.2028) &



production should not exceed 834506 m<sup>3</sup> of Rough Stone with ultimate depth of mining 43m BGL.

12. The salient features of the proposed project as follows;


File No	10120		Category	"B2" 1(a)
	SIA/TN/MIN/431629/2023, Dated:02.06.2023			EC
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Tvl. Balavinayaga Blue Metals, Survey No.571, Samynathapuram, Munnur Post, Pugalur Taluk, Karur District, Pin code-639 111	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel	
3.	S.F Nos. of the quarry site with area break-up	:	326/A1(P), 326/B1(P) & 333/2(P)	
4.	Village in which situated	:	Thennilai East	
5.	Taluk in which situated	:	Pugalur	
6.	District in which situated	:	Karur	
7.	Extent of quarry (in ha.)	:	4.33.5Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	11°1'10.63"N to 11°1'20.49"N 77°52'40.03"E to 77°52'47.88"E	
9.	Topo Sheet No.	:	58E/16	
10.	Type of mining	:	Opencast Semi mechanized Mining	
11.	Life of Project	:	10 years	
	Lease Period	:	5 years valid up to 25.11.2023	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone – 1678658 m <sup>3</sup>	Rough Stone – 1678658 m <sup>3</sup>
		:	Gravel – 1134 m <sup>3</sup>	Gravel – 1134 m <sup>3</sup>

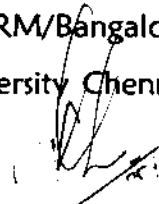
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone – 834506 m <sup>3</sup>	Rough Stone – 834506 m <sup>3</sup>
			Gravel –	Gravel –
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone – 170567 m <sup>3</sup>	Rough Stone – 170567 m <sup>3</sup>
			Gravel –	Gravel –
	Maximum Depth in meters	:	43m BGL	
13.	Depth of water table	:	55m in summer and 50 m in rainy seasons.	
14.	Man Power requirement per day:	:	20 Nos.	
15.	Water requirement: 1. Drinking water & Domestic Purpose 2. Dust suppression 3. Green belt	:	4.30 KLD 2.25 KLD 1.0 KLD 1.5 KLD	
16.	Power requirement	:	TNEB 667600 Liters of HSD	
17.	Precise area communication approved by the District Collector	:	Na.Ka.No.558/Kanimam/2018 Dated:26.10.2018	
18.	Mining Plan approved by Deputy Director, Dept. of Geology & Mining.	:	Rc.No.125/Mines/2023, Dated:06.04.2023	
19.	Deputy Director, Dept. of Geology & Mining 500m Cluster Letter	:	Rc.No.125/Mines/2023, Dated:23.05.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 05.06.2023	
21.	Project Cost (excluding EMP cost)	:	Rs.1,10,66,500/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Rough Stone      Gravel
		:	Max Total RoM in m <sup>3</sup>	834506 m <sup>3</sup>

		:	Annual Max RoM in m <sup>3</sup>	170567 m <sup>3</sup>	-
		:	Max Depth in mtrs	43m BGL	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 77.96 Lakhs recurring cost/annum – Rs. 35.80 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs. 6,00,000 /- as accepted by the PP		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 170567 m<sup>3</sup> of rough stone by maintaining the ultimate depth of mining upto 43m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The proponent shall develop fencing all around the project area & around the abandoned pits situated near the proposed project area in order to ensure safety before the execution of the lease.
3. The PP shall carry out the small dia blasting with maximum of 40 to 60 holes per round obtaining the prior permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
4. However, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations after obtaining prior permission from the Director of Mines Safety/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG

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

5. Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of six months from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
6. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 2<sup>nd</sup> year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
7. As accepted by the Project Proponent the CER cost of Rs. 6 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Thoppampatti Village before obtaining CTO from TNPCB.

Agenda No: 401-06

(File No: 10126/2023)

Proposed Rough Stone and Gravel Quarry over an extent of 2.77.5 Ha at S.F.Nos. 455/A2, 455/A1, 456/1A, 456/2A (P), 456/2B1 (P), 456/1B, 456/3A & 461/1A (P) of P.Anaipalayam Village, Aravakurichi Taluk, Karur District, Tamil Nadu by M/s.Ravi Blue

  
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Metals -For Environmental Clearance. (SIA/TN/MIN/432996/2023, Dated:12.06.2023).

The proposal was placed in this 401<sup>st</sup> Meeting of SEAC held on 16.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:


1. The Project Proponent, M/s. Ravi Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 2.77.5 Ha at S.F.Nos. 455/A2, 455/A1, 456/1A, 456/2A (P), 456/2B1 (P), 456/1B, 456/3A & 461/1A (P) of P.Anaipalayam Village, Aravakurichi Taluk, Karur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, the project proponent has obtained EC from SEIAA vide Lr.No.SEIAA-TN/F.No.805/EC.No.146/2013 dated: 15.03.2013 for the period of 5 years.
4. Certified Compliance Report (CCR) obtained from IRO(SZ); MoEF&CC vide Lr. EP/12.1/2023-24/SEIAA/64/TN/930 Dt:31.07.2023.
5. Existing pit-22m.
6. 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 289940 m<sup>3</sup> of Rough Stone & 11724 m<sup>3</sup> of Gravel with ultimate depth of mining 47m BGL.
7. The salient features of the proposed project as follows;

File No	10126		Category	"B2" 1(a)
	SIA/TN/MIN/432996/2023, Dated:12.06.2023			EC
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s.Ravi Blue Metals S.F.No.643, Door No.GD, Apple Paradise Andankoil East, Manmangalam Taluk, Karur District-639 002.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel	

  
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3.	S.F Nos. of the quarry site with area break-up	:	455/A2, 455/A1, 456/1A, 456/2A (P), 456/2B1 (P), 456/1B, 456/3A & 461/1A (P)	
4.	Village in which situated	:	P.Anaipalayam	
5.	Taluk in which situated	:	Aravakurichi	
6.	District in which situated	:	Karur	
7.	Extent of quarry (in ha.)	:	2.77.5 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°52'53.44"N to 10°53'00.17"N 77°57'42.66"E to 77°57'50.19"E	
9.	Topo Sheet No.	:	58 - F/13	
10.	Type of mining	:	Opencast mechanized Mining	
11.	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	
	Geological Resources m <sup>3</sup> (RoM)	:	As modified by SEAC	
	Movable Resources m <sup>3</sup> (RoM)	:	Rough Stone – 939629 m <sup>3</sup>	Rough Stone – 939629 m <sup>3</sup>
			Gravel – 19034 m <sup>3</sup>	Gravel – 19034 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone – 289940 m <sup>3</sup>	Rough Stone – 289940 m <sup>3</sup>
			Gravel – 11724 m <sup>3</sup>	Gravel – 11724 m <sup>3</sup>
	Maximum Depth in meters	:	Rough Stone – 61,250 m <sup>3</sup>	Rough Stone – 40,320 m <sup>3</sup>
			Gravel – 6,048 m <sup>3</sup>	Gravel – 6,048 m <sup>3</sup>
		:	47m BGL	42m BGL
	13.	Depth of water table	:	70m in summer and 65m in rainy seasons.
	14.	Man Power requirement per day:	:	32 Nos.

  
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15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	1.5KLD 0.3KLD 0.7KLD 0.5KLD		
16.	Power requirement	:	TNEB 2.33,902 Liters of HSD		
17.	Precise area communication approved by the Deputy Director, Department of Geology and Mining	:	Rc.No. 574/Mines/2022. Dated: 10.02.2023		
18.	Mining Plan approved by Deputy Director, Department of Geology and Mining,.	:	Rc.No.574/Mines/2022. Dated: 06.03.2023		
19.	Deputy Director, Department of Geology and Mining, 500m Cluster Letter	:	Rc.No.574/Mines/2022. Dated: 09.03.2023		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 20.04.2023		
21.	Project Cost (excluding EMP cost)	:	Rs.58,84,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total RoM in m <sup>3</sup>	184771 m <sup>3</sup>	11724 m <sup>3</sup>
			Annual Max RoM in m <sup>3</sup>	40320 m <sup>3</sup>	6,048 m <sup>3</sup>
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 35,44,250/- recurring cost – Rs. 17,03,855/-		
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- as accepted by the PP		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 40320m<sup>3</sup> of rough stone & 6,048 m<sup>3</sup> of Gravel by maintaining 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:


1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The proponent shall develop fencing all around the project area & around the abandoned pits situated near the proposed project area in order to ensure safety before the execution of the lease.
3. A safety distance of 60m should be provided to the habitations located at northern side. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the habitations and hence the PP shall not even indulge in constructing the haul roads in these areas. Further, the PP shall carry out tree plantation in this buffer zone.
4. Since the habitations are located at a distance of 250 to 300 m, the Project Proponent shall also install long wind sheets with proper enclosures for controlling the propagation of the dust and noise in and around the eastern side of the proposed quarry site before obtaining the CTO from TNPCB.
5. The PP shall carry out the small dia blasting with maximum of 30 to 40 holes per round obtaining the prior permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
6. However, considering the existence of structures within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations after obtaining prior permission from the Director of Mines Safety/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry using NONEL initiation system only, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad.


  
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- NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
7. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
  8. Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of one year from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
  9. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall within a period of six months from the commencement of quarrying operations after obtaining prior permission from the Director of Mines Safety/Chennai Region, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
  10. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, P.Anaipalayam Village before obtaining CTO from TNPCB.

  
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Agenda No: 401 - 07

(File No: 10109/2023)

Existing Rough Stone quarry lease over an extent of 1.00 Ha Government land at S.F.No. 182/4 (Block-2) in Veeralapatti Village, Oddanchatram Taluk, Dindigul District, Tamil Nadu by Thiru. P.Palanisamy- Environment Clearance for next scheme of mining. (SIA/TN/MIN/432592/2023 dt 07/06/2023)

The proposal was placed in this 401<sup>st</sup> meeting of SEAC held on 16.08.2023. 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:

1. The Project Proponent, Thiru. P.Palanisamy has applied seeking Environment Clearance for next scheme of mining for the existing Rough Stone quarry lease over an extent of 1.00 Ha Government land at S.F.No. 182/4 (Block-2) in Veeralapatti Village, Oddanchatram Taluk, Dindigul District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. CCR obtained from IRO(SZ), MoEF&CC vide Lr. No.EP/12.1/2023-24/SEIAA/30/TN/1761 dated 22.06.2023
4. AD/Mines has reported presence of 3 nos. of existing pit with dimensions of 48m (L) x 37m avg (W) x 10m (D), 41m (L) x 36m avg (W) x 14m (D) and 46m (L) x 37m avg (W) x 26m (D) at the project site.

File No	10109	Category	B2
	SIA/TN/MIN/432592/2023 dt 07.06.2023		
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.P.Palanisamy S/o. Palaniandiambalam, 2/3, Middle Street, No.1, Kodimangalam, Madurai West Taluk, Madurai District

  
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2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone
3.	S.F Nos. of the quarry site with area break-up	:	182/4 (Block-2)
4.	Village in which situated	:	Veeralapatti
5.	Taluk in which situated	:	Oddanchatram
6.	District in which situated	:	Dindigul
7.	Extent of quarry (in ha.)	:	1.00.0 Ha - Government land
8.	Latitude & Longitude of all corners of the quarry site	:	10°28'31.85"N to 10°28'37.25"N 77°40'28.25"E to 77°40'31.73"E
9.	Topo Sheet No.	:	58- F/11
10.	Type of mining	:	Opencast semi mechanized method of mining
11.	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	5 years (2 <sup>nd</sup> five-year Scheme period)
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone - 201585 m <sup>3</sup>
	Minable Resources in m <sup>3</sup> (RoM)	:	Rough Stone - 40008 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone - 8140 m <sup>3</sup>
	Maximum Depth in meters	:	40m (20m AGL+ 20mBGL)
13.	Depth of water table	:	55-60 m
14.	Man Power requirement per day	:	16 Nos.
15.	Water requirement:	:	5.0 kLD
	1. Drinking & domestic purposes	:	1.0 kLD & 3.0 kLD
	2. Dust suppression, Green Belt & Wet Drilling	:	1.0 kLD
16.	Power requirement	:	TNEB 32250 lit of HSD

  
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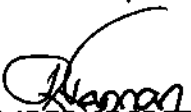
17.	Precise area communication approved by the AD/DD, Dept. of Geology & Mining	:	Rc.No.708/2017(kanimam) Dated:22.01.2018		
18.	Mining Plan approved by AD/DD, Dept. of Geology & Mining	:	Rc.No.708/2017(kanimam) Dated:25.05.2023		
19.	500m Cluster letter issued by AD/DD, Dept. of Geology & Mining	:	Rc.No.708/2017(kanimam) Dated:25.05.2023		
20.	VAO Certificate regarding habitation within 300m radius	:	Letter dated 26.04.2023		
21.	Project Cost (excluding EMP cost)	:	Rs.29.53 Lakh		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Topsoil
			Max Total RoM in m <sup>3</sup>	40008	-
			Annual Max RoM in m <sup>3</sup>	8140	-
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.14.74 lakh Recurring cost – Rs. 11.70 Lakh + 5% of inflation cost every year		
24.	CER cost (in Rs. Lakh).	:	Rs. 5.0 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 RoM production capacity not exceeding 8140 m<sup>3</sup> of Rough stone by maintaining the ultimate depth of mining of 40m (20m AGL+ 20mBGL) subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan

approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.

- 2) The proponent shall provide the particulars for carrying out the plantation of 1000 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- 3) The PP shall carry out the small dia blasting with maximum of 30 to 40 holes per round obtaining the prior permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
- 4) However, considering the existence of structures within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations after obtaining prior permission from the Director of Mines Safety/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry using NONEL initiation system only, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation
- 5) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall within a period of six months from the commencement of quarrying operations after obtaining prior permission from the Director of Mines Safety/Chennai Region, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA.

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

- 6) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site.
- 8) As accepted by the Project Proponent the CER cost of Rs.5.0 lakh and the amount shall be spent for the committed activities at Village Government School before obtaining CTO from TNPCB.


Agenda No: 401 - 08

(File No: 10115/2023)

Proposed Rough Stone lease over an extent of 1.00.0 Ha at S.F.No.839/2(Part) in Sokkanur Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru. J. Sathyan Praveen – For Environment Clearance. (SIA/TN/MIN/431805/2023 dt 01.06.2023)

The proposal was placed in this 401<sup>st</sup> meeting of SEAC held on 16.08.2023. 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:

1. The Project Proponent, Thiru. J.Sathyan Praveen has applied seeking Environment Clearance for the proposed Rough Stone lease over an extent of

  
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1.00.0 Ha at S.F.No. 839/2(Part) in Sokkanur Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.

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

1. There are many structures including the labour sheds and cow sheds located within 300m radius of the proposed mine lease area.
2. The existing trees & strong vegetation present within the mine lease area may be disturbed unnecessarily causing the ecological damage while carrying out the proposed quarrying activity.
3. The proposed area has no mining activity in the vicinity and if mining activity is allowed, it may have a negative impact on the surrounding lush green environment and coconut groves.


Agenda No: 401 - 09

(File No: 10127/2023)

Proposed Multi Colour Granite Quarry lease over an extent of 2.02.4 Ha at S.F.No.688/1,689,692(Part) & 693 in Karikali Village, Vedasanthur Taluk, Dindigul District, Tamil Nadu by M/s. Elephant Granites – For Environment Clearance. (SIA/TN/MIN/433173/2023 dt 13.06.2023)

The proposal was placed in this 401<sup>st</sup> meeting of SEAC held on 16.08.2023. 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:

1. The Project Proponent, M/s. Elephant Granites has applied seeking Environment Clearance for the Proposed Multi Colour Granite Quarry lease over an extent of 2.02.4 Ha at S.F.No.688/1,689,692(Part) & 693 in Karikali Village, Vedasanthur Taluk, Dindigul District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.

  
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3. DEIAA EC Lr. No. DEIAA/DGL/EC. No. 053/2017 dated 15.12.2017

On perusal of the documents furnished by the Proponent, the SEAC noted that the project site is located within 10km distance from the Kadavur Slender Loris Sanctuary. Para(3) sub para(ii) of the MoEF&CC O.M. F.No. 6-60/2020WL Part(1) dated 16.07.2020 states that,

**ii. Proposals involving activity/project located within 10 km of National Park/Wildlife Sanctuary wherein ESZ has not been finally notified and listed in the Schedule of the EIA Notification 2006 and requiring environment clearance, prior clearance from Standing Committee of the National Board for Wild Life will be required.**

The Committee directed the Project proponent to furnish NBWL Clearance for the proposed project activity and CCR from the competent Authority for the existing quarry. On receipt of the additional particulars sought the Committee will further deliberate and decide on future course of action.

Agenda No: 401 - 10


File No: 10102/2023

Proposed Rough Stone quarry lease over an extent of 2.00.10ha in S.F. No. 1193/1 (PART) at Kodakkal Village, Sholinghur Taluk, Ranipet District, Tamil Nadu by Tvl. KCC Buildcon Private Limited - For Environmental Clearance. (SIA/TN/MIN/430493/2023, Dated: 01.06.2023)

The proposal was placed in this 401<sup>st</sup> SEAC meeting held on 16.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation. The SEAC noted the following:

1. The Project Proponent, Tvl. KCC Buildcon Private Limited has applied for Environmental Clearance for the Proposed Rough Stone quarry lease over an extent of 2.00.10 ha in S.F. No. 1193/1 (PART) at Kodakkal Village, Sholinghur Taluk, Ranipet 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. Precise Area Communication letter issued vide Rc. No. 89/2023 dated:

  
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19.04.2023 under para 3 states that

*“Based on the recommendations of the Revenue Divisional Officer, Ranipet and Assistant Director (i/c) of Geology and Mining, Ranipet, an extent of 2.00.10 hectares (as demarcated in the sketch) in Government land SF.No.1193/1 Kodakkal Village, Sholinghur Taluk, Ranipet District is hereby fixed as Precise Area for grant of rough stone quarry lease to Tvl.KCC Buildcon Private Limited for a period of one year under Rule 7 of the Tamil Nadu Minor Mineral Concession Rule 1959 for "Construction of 4-Lane Bangalore Chennai Expressway from km 180.000 to km 201.500 (Walajahpet to Arakkonam section)" subject to the following conditions” stated therein.*

4. As per mining plan, the lease period is for 1 year. The mining plan is for 1 year & production should not exceed 2,06,150m<sup>3</sup> of Rough Stone. The annual peak production 2,06,150m<sup>3</sup> of Rough Stone. The ultimate depth of mining is 46m AGL.

The proposal is for mining of Rough Stone Quarry and the salient features of the proposal are as follows:

File No	10102/2023	Category	B2
	430493/2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Tvl. KCC Buildcon Private Limited, Plot No.99, 2 <sup>nd</sup> floor, Nethaji Garden, AmmoorKoot Road, Ammoor, Walajah Taluk, Ranipet District-632501
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone Quarry
3.	S.F Nos. of the quarry site with area break-up	:	1193/1 (PART)
4.	Village in which situated	:	Kodakkal
5.	Taluk in which situated	:	Sholinghur
6.	District in which situated	:	Ranipet
7.	Extent of quarry (in ha.)	:	2.00.10Ha

8.	Latitude & Longitude of all corners of the quarry site	:	13°04'39.80"N to 13°03'44.17"N 79°25'21.07"E to 79°25'26.08"E	
9.	Topo Sheet No.	:	57 - O/08	
10.	Type of mining	:	Opencast Semi-Mechanized Mining	
11.	Life of Project	:	1 year	
	Lease Period	:	1 year	
	Mining Plan Period	:	1 year	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone 6,84,750 m <sup>3</sup>	Rough Stone
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone 2,06,150m <sup>3</sup>	Rough Stone
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone 2,06,150m <sup>3</sup>	Rough Stone
	Maximum Depth in meters	:	46m AGL	
13.	Depth of water table	:	55m in rainy season & 58m in summer season	
14.	Man Power requirement per day:	:	29 Nos	
15.	Water requirement: 1. Drinking water 2. Dust suppression & Green belt	:	6.0KLD 2.0 KLD 4.0 KLD	
16.	Power requirement	:	TNEB 1,68,158 Ltrs of HSD	
17.	Precise area communication approved by the District Collector, Department of G&M.	:	Rc.No. 89/2023 (Mines), dated: 19.04.2023	
18.	Mining Plan approved by Assistant Director (i/c), Department of G&M.	:	Rc.No.89/2023 (Mines), dated: 04.05.2023	
19.	Department of G&M, Assistant Director (i/c), 500m Cluster Letter	:	Rc.No.89/2023 (Mines), dated: 10.05.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 15.05.2023	

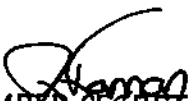
  
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21.	Project Cost (excluding EMP cost)	:	Rs. 86,50,000		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	
		:	Max Total RoM in m <sup>3</sup>	2,06,150m <sup>3</sup>	
		:	Annual Max RoM in m <sup>3</sup>	2,06,150m <sup>3</sup>	
		:	Max Depth in mtrs	46m AGL	
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 10.11 Lakhs Recurring Cost – Rs. 9.48 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs. 10,00,000		
			Sl. No.	PROPOSED CER ACTIVITIES	COST IN LAKHS.
			1	<ul style="list-style-type: none"> <li>• Provision of Library with racks</li> <li>• Plantations inside the School premises (50 Nos.)</li> <li>• Constructing School boundary wall and floor with Paver blocks</li> </ul>	5.00
			2	School Toilet maintenance Cost	1.00
			3	Smart classroom	4.00
	<b>Total CER Cost</b>	<b>10.00</b>			


Now, the proposal is placed in the 401<sup>st</sup> SEAC meeting held on 17.08.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 2,06,150m<sup>3</sup> of rough stone by maintaining the ultimate depth of mining upto 46m Above ground level and subject to the standard

  
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conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The proponent shall ensure that Black Topped Tar Road is constructed and maintained as a part of the EMP during the quarrying operations.
3. At the end of mining period, the Black Topped Tar Road is restored and handed over to local Panchayat.
4. The PP shall prepare and submit the 'Code of Practice (or) SoP for the safe transportation through Trucks' to the AD (Mines) and the DEE/TNPCB at the time of lease execution, indicating the adoption of one-way transportation for the loaded vehicles as it pass through the habitations / any village, Posting of adequate traffic guards, Vehicle movement timing, Speed limits, Safety precautions to be maintained, Usage of alternative new route for the empty trucks / for the loaded trucks particularly during the peak hours (or) school timings, Vehicle Parking Places, Safety Sign boards and Duties & Responsibilities of Officials/Truck drivers. A copy of the same shall also be furnished to the local Panchayat and the District Collector.
5. The PP shall also ensure that the vehicles carrying the ROM (crushed stones) are not overloaded and it is properly covered with tarpaulin sheets such that no loose stone falls out of the vehicle during the transportation.
6. The proponent shall erect tall sheet fencing in the lease boundary of the proposed quarry abutting the road before the execution of the lease.
7. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of three months from the commencement of quarrying operations after obtaining prior permission from the Director of Mines Safety/Chennai, to design the controlled blast parameters adopting 'Digital initiation system' with Electronic Detonators only for reducing

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

8. The PP shall furnish a Standard Operating Procedures (SoP) after it is approved by the Director of Mines Safety/Chennai, to the concerned AD (Mines) within a period one week from the date of lease execution for carrying out the safe blasting operations which includes the methodology, appointment of statutory persons with their duties & responsibilities, storage & transportation of explosives and accessories, blasting duration, posting of guards, safety precautions, to secure the safety of the persons living within a radial distance of 500 m (danger zone). A copy of the same shall be furnished to the local Panchayat and the District Collector.
9. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies after obtaining prior permission from the Director of Mines Safety/Chennai and submit a scientific study report, within a period of three months from the commencement of quarrying operations, developing a predictive simulation model ensuring the slope stability of the working benches and quarry wall along with the 'Slope Stability Action Plan', by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. The PP shall inform the official of the concerned Village Panchayats about the safety precautions to be adopted during the blasting activities and transportation

system using trucks within a period of one week from the date of the lease execution.

11. The PP shall set up a dedicated Environment Management Cell for the proposed quarrying operation before obtaining the CTO from the TNPCB to ensure the adequate green belt development, air quality monitoring and traffic studies during the period of operation.
12. As accepted by the Project Proponent the CER cost of Rs. 10 Lakhs and the amount shall be spent for the activities as committed towards Kodakkal Government Higher Secondary School before obtaining CTO from TNPCB.

Agenda No: 401 - 11

File No: 10110/2023

Proposed Rough Stone & Gravel quarry lease over an extent of 2.27.0 ha in S.F. No. 503/1A, 503/1B & 503/2(P) at Puravipalayam Village, Pollachi Taluk, Coimbatore District, Tamil Nadu by Thiru. K.T.Chenthamara - For Environmental Clearance. (SIA/TN/MIN/431472/2023, Dated: 07.06.2023)

The proposal was placed in this 401<sup>st</sup> SEAC meeting held on 16.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation. The SEAC noted the following:

1. The Project Proponent, Thiru. K.T.Chenthamara has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 2.27. 0 ha in S.F. No. 503/1A, 503/1B & 503/2(P) at Puravipalayam Village, Pollachi Taluk, Coimbatore 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. As per mining plan, the lease period is for 5 years. The mining plan is for 1 year & production should not exceed 3,76,590 m<sup>3</sup> of Rough Stone & 50,406 m<sup>3</sup> of Gravel. The annual peak production 85,495m<sup>3</sup> of Rough Stone & 29,526 m<sup>3</sup> of Gravel. The ultimate depth of mining is 48m BGL.
4. The PP had obtained the prior Environmental Clearance from the DEIAA vide Lr. No. DEIAA- CBE-IV/F.No.1436/1 (a & b)/Ec.No.34/2018, Dated: 04/10.2018 for

  
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the excavation of Rough stone of 376590 m<sup>3</sup> and Gravel of 50.406 m<sup>3</sup> for an ultimate depth of 48 m.

Now, the proposal was placed in the 401<sup>st</sup> SEAC meeting held on 17.08.2023. Based on the presentation and the documents furnished by the Proponent, SEAC noted the following proceedings of the commissioner of geology and mining vide Rc.No. 7958/MM1/2022 dated 25.11.2022

1. A quarry lease had been granted in favour of Thiru K. T. Chenthamarai for quarrying rough stone and gravel over an extent of 2.27.0 hectares of patta land comprising S.F.Nos.503/1A, 503/18 & 503/2 of Puravipalayam village, Pollachi taluk, Coimbatore District by the District Collector, Coimbatore vide proceedings in Rc.No.1436/Kanimam/2017, dated 22.12.2018 for a period of five years valid from 22.12.2018 to 21.12.2023.
2. One Thiru K. A. Radhakrishnan had filed W.P.No.17367 of 2020 before the Hon'ble Madras High Court with a prayer to direct the official respondents to take all appropriate steps to stop and close down forthwith the entire illegal mining activity done by the 8th respondent in violation of the conditions imposed in their respective land situated at Pollachi and pass appropriate orders within a time frame fixed by the Hon'ble Court.
3. The Commissioner of Geology and Mining vide Rc.No.216/MM1/2021, dated 05.03.2021 constituted Joint Committee to carry out inspection in the subject quarry to file factual report. In pursuant to the orders of the Commissioner of Geology and Mining, the Joint Committee had carried out inspection in the subject areas and filed inspection report on 10.03.2021.
4. Based on the report filed by the Joint Committee, the Sub Collector, Pollachi vide Rc.No.818/2021/A2, dated 29.01.2022 had levied penalty on Thiru. K. T. Chenthamarai, Managing Director of Tvl.Yen Cees Blue Metals for a sum of Rs.32,29,77,792/- for indulging illicit quarrying and transportation of minerals from the lease hold areas in S.F.Nos.495/2A, 504/2A, 504/28, 503/1A, 503/18 & 503/2 and non-lease hold areas in S.F.Nos.495/2B(P), 502/1(P) & 503/2(P) & 497(P) & 502/1(P) of Puravipalayam village, Pollachi taluk, Coimbatore District.

  
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5. Aggrieved by the said order passed by the Sub Collector, Pollachi, Thiru. K. T. Chenthamarai had preferred an appeal before the Commissioner of Geology and Mining with a prayer to set aside the orders passed by the Sub Collector, Pollachi vide proceedings In Rc.No.818/2021/A2, dated 29.01.2022.
6. The Commissioner of Geology and Mining had afforded an opportunity to the appellant for personal hearing and the appellant had appeared before the Commissioner of Geology and Mining and submitted written statement dated 24.11.2022 & 25.11.2022.
7. In this regard, the contention of appeal petition preferred by the appellant, orders passed by the Sub Collector, Pollachi, statement of the appellant and other connected records were examined as per Act and Rules and the observations were made stated therein.
8. Based on the observations stated therein, it was revealed that the appellant had indulged in illicit quarrying and transportation of minerals without valid permits. For the violations committed by the appellant, penalty was levied on the appellant as per the assessment carried out by the department of Geology and mining.
9. The Assistant Director of Geology and Mining, Coimbatore was instructed by Director of Geology and mining to inspect the adjacent non-leased areas and to ascertain whether the lessee had indulged in illegal quarrying and transportation of minerals from the non-leased areas and also to ascertain whether overburden is dumped in the leased area/non-leased areas as stated by the appellant and to send a report for taking further action in respect of violations indulged in non-leased areas.

In the view of the aforesaid proceedings of Commissioner of Geology and Mining, Committee noted that the Assistant Director has not furnished the report as directed by Commissioner of Geology and Mining in the para 9 of the proceedings of Commissioner of Geology and Mining vide Rc.No. 7958/MM1/2022 dated 25.11.2022. Besides, the SEAC had also observed from the KML file that the quarrying operation has been carried out outside the boundary of mine lease area. Hence, in the view of the above facts and documents furnished by the proponent, SEAC decided to call for additional details

  
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- (i) The AD/mines shall carry out the field investigation to ascertain the actual conditions in the site and shall furnish the report with respect to the directions given by Commissioner of Geology and Mining as stated above.
- (ii) The proponent shall submit certified compliance report obtained from IRO, MoEF&CC.

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

**Agenda No: 401 - 12**

**File No: 10116/2023**

**Proposed Gravel quarry lease over an extent of 1.44.0ha in S.F. No. 5/1, 5/2 & 5/3 at Sanankulam Village, Vembakkottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. S.Manohar - For Environmental Clearance. (SIA/TN/MIN/432528/2023, Dated: 07.06.2023)**

The proposal was placed in this 401<sup>st</sup> SEAC meeting held on 16.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

**The SEAC noted the following:**

1. The Project Proponent, Thiru. S.Manohar has applied for Environmental Clearance for the Proposed Gravel quarry lease over an extent of 1.44.0 ha in S.F. No. 5/1, 5/2 & 5/3 at Sanankulam Village, Vembakkottai Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 3 years. The mining plan is for 3 years & production should not exceed 22,304m<sup>3</sup> of Gravel. The annual peak production 7,436m<sup>3</sup> of Gravel. The ultimate depth of mining is 2m BGL.


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

  
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File No		10116/2023		Category	B2	
		432528/2023			1(a)	
Sl. No	Salient Features of the Proposal					
1.	Name of the Owner/Firm	:	Thiru.S.Manohar, S/o. Seeniyappanadar, Door No. 7/270, Rajeevgandhi Nagar, Elayirampennai, Sattur Taluk, Virudhunagar District - 626201.			
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Gravel Quarry			
3.	S.F Nos. of the quarry site with area break-up	:	5/1, 5/2 & 5/3			
4.	Village in which situated	:	Sanankulam			
5.	Taluk in which situated	:	Vembakkottai			
6.	District in which situated	:	Virudhunagar			
7.	Extent of quarry (in ha.)	:	1.44.0Ha			
8.	Latitude & Longitude of all corners of the quarry site	:	09°17'31.70"N to 09°17'34.95"N 77°48'18.45"E to 77°48'24.21"E			
9.	Topo Sheet No.	:	58-G/15			
10.	Type of mining	:	Opencast method of Shallow Mining without drilling and blasting			
11.	Life of Project	:	3 years			
	Lease Period	:	3 years			
	Mining Plan Period	:	3 years			
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC		
	Geological Resources m <sup>3</sup> (RoM)	:	Gravel 72,000 m <sup>3</sup>	Gravel		
	Minable Resources m <sup>3</sup> (RoM)	:	Gravel 22,304m <sup>3</sup>	Gravel		
	Annual Peak Production in m <sup>3</sup>	:	Gravel 7,436m <sup>3</sup>	Gravel		
	Ultimate Depth in meters	:	2m BGL			
13.	Depth of water table	:	16m - 18m BGL			
14.	Man Power requirement per day:	:	14 Nos			

  
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15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	1.6 KLD 0.6 KLD 0.5 KLD 0.5 KLD	
16.	Power requirement	:	TNEB 4,464Ltrs of HSD	
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Na.Ka.No.KV3/945/2022-Kanimam, dated: 25.04.2023	
18.	Mining Plan approved by Assistant Director, Department of G&M.	:	Roc.No: KV3/945/2022 (Mines), dated: 15.05.2023	
19.	Department of G&M, Assistant Director, 500m Cluster Letter	:	Roc.No: KV3/945/2022 (Mines), dated: 15.05.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 10.05.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 12,44,080	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m <sup>3</sup>	22,304m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	7,436m <sup>3</sup>
		:	Max Depth in mtrs	2m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 3,55,200 Recurring Cost – Rs. 2,41,600	
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000	

Now, the proposal is placed in the 401<sup>st</sup> SEAC meeting held on 17.08.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 7,436m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining up to 2m below ground level for the maximum period of three years from the date of lease execution and subject to the standard conditions as per

the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The proponent shall not carry out the drilling and blasting operations in the proposed quarry.
2. The proponent shall erect tall sheet fencing in the lease boundary of the proposed quarry abutting the road for minimizing the dust pollution before the execution of the lease.
3. The PP shall ensure that atleast 500 no of tree saplings are planted along the travelling route before obtaining the CTO from the TNPCB.
4. The PP shall construct the embankment of not less than 2 m height along the side of the odai passing nearby before obtaining the CTO from the TNPCB.
5. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Sivasangupatty, Elayirampennai, Virudhunagar District before obtaining CTO from TNPCB.

**Agenda No: 401 - 13**

**File No: 10122/2023**

**Proposed Rough Stone quarry lease over an extent of 2.19.0ha in S.F. No. 63(Part-1) at Kulasekarankottai Village, Vadipatti Taluk, Madurai District, Tamil Nadu by Thiru. P. Prabhu - For Environmental Clearance. (SIA/TN/MIN/432741/2023, Dated: 10.06.2023)**

The proposal was placed in this 401<sup>st</sup> SEAC meeting held on 16.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation. The SEAC noted the following:

1. The Project Proponent, Thiru. P. Prabhu has applied for Environmental Clearance for the Proposed Rough Stone quarry lease over an extent of 2.19.0 ha in S.F. No. 63(Part-1) (Govt. land Tender allotted area) at Kulasekarankottai Village, Vadipatti Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

  
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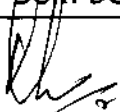
3. As per mining plan, the lease period is for 5 years. The mining plan is for 5 years & production should not exceed 2,45,128m<sup>3</sup> of Rough Stone. The annual peak production 62,320m<sup>3</sup> of Rough Stone. The ultimate depth of mining is 45m (15m AGL + 30mBGL).

The proposal is for mining of Rough Stone Quarry and the salient features of the proposal are as follows:

File No	10122/2023		Category	B2	
	432741/2023			1(a)	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	Thiru. P.Prabhu, S/o. Palpandian, 8-1-88(1), Annaillam, Chinnankovil Street, Neerathan, Vadipatti Taluk, Madurai District – 625 218.		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone Quarry		
3.	S.F Nos. of the quarry site with area break-up	:	63(Part-1) (Govt.land Tender allotted area)		
4.	Village in which situated	:	Kulasekarankottai		
5.	Taluk in which situated	:	Vadipatti		
6.	District in which situated	:	Madurai		
7.	Extent of quarry (in ha.)	:	2.91.0Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	10°06'17.7"N to 10°06'25.5"N 77°57'33.9"E to 77°57'38.2"E		
9.	Topo Sheet No.	:	58-F/16		
10.	Type of mining	:	Opencast Semi-Mechanized Mining		
11.	Life of Project	:	5 years		
	Lease Period	:	5 years		
	Mining Plan Period	:	5 years		
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC	
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone 10,05,768m <sup>3</sup>	Rough Stone	
	Minal Resources m <sup>3</sup> (RoM)	:	Rough Stone	Rough Stone	

			2.45,128m <sup>3</sup>	
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Rough Stone
			62,320m <sup>3</sup>	
	Ultimate Depth in meters	:	45m (15m AGL + 30m BGL)	
13.	Depth of water table	:	40 to 45m	
14.	Man Power requirement per day:	:	18 Nos	
15.	Water requirement: 4. Drinking water 5. Dust suppression 6. Green belt	:	5.0KLD 1.5 KLD 2.3 KLD 1.2 KLD	
16.	Power requirement	:	TNEB 56,373Ltrs of HSD	
17.	Precise area communication approved by the Assistant Director (i/c), Department of G&M.	:	Na.Ka.No.1132/Kanimam/2019, dated: 30.03.2023	
18.	Mining Plan approved by Assistant Director (i/c), Department of G&M.	:	Roc.No: 1132/Mines/2019-1, dated: 20.04.2023	
19.	Department of G&M, Assistant Director (i/c), 500m Cluster Letter	:	Roc.No: 1132/Mines/2019-2, dated: 20.04.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 03.04.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 78,94,146	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits. Rough Stone
		:	Max Total RoM in m <sup>3</sup>	2,45,128m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	62,320m <sup>3</sup>
		:	Max Depth in mtrs	45m (15m AGL + 30m BGL)

  
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23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 23.01 Lakhs Recurring Cost – Rs. 19.43 Lakhs
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000

Now, the proposal is placed in the 401<sup>st</sup> SEAC meeting held on 17.08.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 62,320m<sup>3</sup> of Rough Stone by maintaining the ultimate depth of mining up to 45m (15m AGL + 30m BGL) and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The proponent shall develop fencing around the abandoned pits situated near the proposed project area in order to ensure safety before the execution of the lease.
3. Since the structures are situated within a radial distance of 700 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
4. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial

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

5. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall within a period of six months from the date of lease execution, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
6. Since a Reserve Forest is situated at a distance of 200 m from the lease boundary, the PP shall carry out the **Special Mitigation Measures for the Quarries** located within 1 Km from the Reserve Forests as stipulated in the Annexure and a report on the actions taken shall be furnished to the IRO, MoEF on or before 31<sup>st</sup> March of every year during the quarry operation.
7. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government Middle School, Kulasekarankottai Village before obtaining CTO from TNPCB.

Agenda No: 401 - 14

File No: 10128/2023

Proposed Grey Granite quarry lease over an extent of 1.24.0 ha in S.F. No. 435/1A (P), 435/1E2, 435/1F2 (P), 435/1G2 (P), 435/1K (P), 435/1E1, 435/1D1, 435/1D2, 435/1F1 & 435/1G1 at Kendikampatti Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu by Thiru.J. Kasinathan - For Environmental Clearance. (SIA/TN/MIN/433338/2023, Dated: 14.06.2023)

The proposal was placed in this 401<sup>st</sup> SEAC meeting held on 16.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

  
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The SEAC noted the following:

1. The Project Proponent, Thiru.J. Kasinathan has applied for Environmental Clearance for the Proposed Grey Granite quarry lease over an extent of 1.24.0 ha in S.F. No. 435/1A (P), 435/1E2, 435/1F2 (P), 435/1G2 (P), 435/1K (P), 435/1E1, 435/1D1, 435/1D2, 435/1F1 & 435/1G1 at Kendikampatti Village, Pochampalli 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. As per mining plan, the lease has been executed for a period of 20 years from 27.11.2018 to 26.11.2038 and however, the life of the mine is estimated as 17 years. The first five year of the mining plan is for 5 years & production should not exceed 22,610 m<sup>3</sup> of ROM, 10,013 m<sup>3</sup> of Granite reserves @ 35% & 18,597 m<sup>3</sup> of Granite waste @ 65%. The annual peak production 5,780 m<sup>3</sup> of ROM, 2,023 m<sup>3</sup> of Granite reserves @ 35% & 3,757 m<sup>3</sup> of Granite waste @ 65%. The ultimate depth of mining is 17m.
4. The PP has obtained the prior Environmental Clearance for an approved quantity of 10013 cbm of Grey Granite for an ultimate pit depth of 17 m for a period of five years vide Lr. No.03/DEIAA-KGI/EC No.35/2018, Dated. 27.08.2018.
5. However, the PP has not furnished the Review of Mining Plan enclosing the Scheme of Mining indicating the annual programme and plan for excavation activities on the precise area from year to year for a period of five years fulfilling the provisions of Rule 18 of Granite Conservation & Development Rules, 1999.
6. Further, it is pertinent to observe that EIA Office memorandum F.No. IA3-22/11/2023-IA (E-208230), dated. 28.04.2023 and relevant part of the OM reads as under:

*"...it has been decided that all valid ECs issued by DEIAA shall be reappraised through SEAC/SEIAA in compliance to the order of the Hon'ble NGT in O.A.142 of 2022. In view of above, it is hereby directed that all concerned SEACs shall re-appraise the ECs issued between 15.01.2016 and 13.09.2018 (including both dates) and all fresh ECs shall be granted only by SEIAAs based on such appraisal. The exercise shall be completed within a time period of one year from the date*

*of issue of this OM. DEIAAs shall transfer all such files where ECs have been granted to concerned SEIAA within a time period of one month from issue of this OM.....”*

*“....Environmental clearance was granted by DEIAA need to be brought in consonance with the directions given by the Hon`ble Supreme Court in Deepak Kumar (supra) and order dated. 13.09.2018 by this Tribunal in Satendra Pandey (supra) by re-appraisal by SEIAA and only such mining leases may be continued which have been on re-appraisal granted environmental clearance by SEIAA and after taking appropriate remedial action on the basis of such re-appraisal...”*

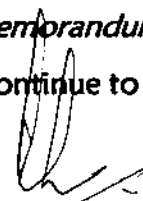
*Further, in order to have a uniform approach across the country for such appraisal, SEIAA shall scrutiny and appraise the proposals based on the checklist provided below:*

*xi. Compliance of Hon`ble Supreme Court Judgement dated 02.08.2017 passed in Common Cause vs Union of India Writ Petition (C) 114 of 2014.....”*

Now, the proposal was placed in the 401<sup>st</sup> SEAC meeting held on 17.08.2023. Based on the presentation and the documents furnished by the Proponent, the SEAC decided to call for additional details:

1. The PP shall submit Certified Compliance Report obtained from IRO, MoEF&CC for ascertaining the existing conditions of mine granted with EC Lr. No.03/DEIAA-KGI/EC No.35/2018, Dated. 27.08.2018.
2. The PP shall submit the Review of Mining Plan enclosing the relevant Scheme of Mining duly approved by the Competent Authority indicating the annual programme and plan for excavation activities on the precise area from year to year for the current & next period of five years, i.e., 2023 to 2028.
3. The PP shall submit an affidavit stating that the proponent has stopped all the quarrying activity including excavation, transportation and dispatch of mineral/waste with effect from 28.05.2023, *i.e. to facilitate the PP for submitting the application and completion of statutory formalities pertaining to the discontinuance of mining operations in accordance with MMDR Act 1957 & Mines Act 1952, within one month of issue of EIA Office memorandum F.No. IA3-22/11/2023-IA (E-208230), dated. 28.04.2023 and will continue to operate*

  
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only after obtaining Environmental clearance from SEIAA-TN once completing the remedial actions based on such re-appraisal by SEIAA-TN.

4. The PP shall submit a letter obtained from concerned AD/Mines regarding the following details.
  - i. Exact depth of existing pit, period of the operation and stoppage of the earlier mining operation & quantity of minerals mined out.
  - ii. The copy of demand notice served on total penalty levied, if any and copy of remittance of total penalty by PP.
  - iii. A letter from AD/DD mines stating that the project will not fall under violation category, clearly stating whether mining has been carried out outside mine lease area for which the PP has not obtained any prior EC.

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

**Agenda No: 401-15**

**(File No.10111/2023)**

**Proposed Rough Stone Quarry and Gravel lease over an extent of 3.44.0 Ha (Patta Land) at S.F.Nos. 68/1 (Part) & 69 (Part) of Katteri Village, Uthangarai Taluk, Krishnagiri District, Tamil Nadu by Thiru. T. Raviganesan – For Environmental Clearance. (SIA/TN/MIN/432309/2023 dated:06.06.2023)**

The proposal was placed in the 401<sup>st</sup> meeting of SEAC held on 16.08.2023. 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. Raviganesan has applied for Environmental Clearance for the Proposed Rough Stone Quarry and Gravel lease over an extent of 3.44.0 Ha (Patta Land) at S.F.Nos. 68/1 (Part) & 69 (Part) of Katteri Village, Uthangarai Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category “B2” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.

  
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Based on the presentation made and documents submitted and from the KML file uploaded in the PARIVESH Portal, SEAC noted the following.

- i) The applied site is a fresh area, hitherto unmined.
- ii) Kottukarampatti village/habitation is located at a distance of about 260m from the project site on the northern side.
- iii) Onnakarai RF is located at a distance of 55m from the northern boundary of the project area.
- iv) SH 179 A connecting Uthangarai to Arur is located at a distance of 220m on the western side of the project site.
- v) Govt. Veterinary Hospital is located at a distance of 225m on the western side of the project area.
- vi) One major water body – Katteri Lake is located at a distance of 390 m from the boundary of lease.
- vii) One educational institute, namely, Sri Vidya Mandir Arts & Science College is located at a distance of 550m on the southern side of the project area.
- viii) Habitations are also located on the south-western side of the project area at a distance of 310m.

In view of the above sensitivities, the Committee decided not to recommend the proposal for grant of Environmental Clearance.

**Agenda No: 401-16**


**(File No.10123/2023)**

**Proposed Rough Stone and Gravel Quarry lease over an extent of 1.76.0 Ha (Patta Land) at S.F.Nos. 353/2 & 354 of Periyapatti Village, Namakkal Taluk, Namakkal District, Tamil Nadu by Tmt. A. Indira – For Environmental Clearance. (SIA/TN/MIN/432646/2023 dated:09.06.2023)**

The proposal was placed in the 401<sup>st</sup> meeting of SEAC held on 16.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**


1. The project proponent, Tmt. A. Indira has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry lease over an extent of 1.76.0

  
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Ha (Patta Land) at S.F.Nos. 353/2 & 354 of Periyapatti Village, Namakkal Taluk, Namakkal District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, the proponent has filed an application at SEIAA-TN seeking Environmental Clearance vide Proposal No.4739/2015 (Online No. SIA/TN/MIN/32092/2015 dated.24.10.2015).
4. During scrutiny, it was noted that the proponent was directed to submit the proposal to MoEF&CC as per the S.O.804(E) dated.14.03.2017.
5. However, the PP have informed that the aforesaid application submitted on 24.10.2015 had been transferred to the DEIAA from the SEIAA.
6. Later, the proponent has obtained Environmental Clearance from DEIAA, Namakkal vide Lr.No. DEIAA-NMK-TN/ F.No.259/Mines/01/EC.No.01/2017 dated.07.07.2017.
7. Further, from the documents submitted by the proponent in the PARIVESH Portal, it was ascertained that a penalty of Rs.13,14,526/- was levied against the project proponent by the Revenue Divisional Officer, Namakkal for carrying out the quarrying operations in the safety area for a quantum of 3,272 m<sup>3</sup> of Gravel and 20,450 m<sup>3</sup> of Rough stone. The PP has accepted the decision.
8. The PP have obtained the extension of lease for one year (i.e., upto 28.08.2023) from the office of CGM, Chennai for non-operation period due to COVID 19 vide Rc No. 688/MM1/2023, dated. 31.01.2023 without affecting the environmental clearance obtained earlier for this lease.
9. The PP have mined out the quantity of both Gravel and Rough stone within the quantity as stipulated in the prior EC obtained from the EC but the depth has been exceeded in one part of the mine for 29 m against the permitted depth of 27m.
10. It has been observed from the presentation and KML file that many permanent and temporary structures are existing within a radial distance of 500m from the lease boundary.

  
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Hence, based on the presentation and details furnished by the project proponent, the Committee decided to call for the following details from the project proponent to consider the proposal for appraisal:

- i) Details on the existence of schools (both Govt & Private schools) and any other sensitive structures including temples, etc in the vicinity of the existing quarry site and detail the impact of mining activities & mitigation measures for protecting these structures.
- ii) Details of EC violation by way of exceeding the prescribed depth and for mining in the safety area.

Hence, the proponent is advised to submit the above-mentioned details within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.

**Agenda No: 401-17**

**(File No.10129/2023)**


**Proposed Rough Stone Quarry and Gravel lease over an extent of 2.07.0 Ha (Patta Land) at S.F.Nos. 208/1 (Part) of Ramapattinam Village, Pollachi Taluk, Coimbatore District, Tamil Nadu by Mr. Pritto Francis (Managing Partner) of M/s. Green Sand Granites – For Environmental Clearance. (SIA/TN/MIN/432865/2023 dated:10.06.2023)**

The proposal was placed in the 401<sup>st</sup> meeting of SEAC held on 16.08.2023. 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, Mr. Pritto Francis (Managing Partner) of M/s. Green Sand Granites has applied for Environmental Clearance for the Proposed Rough Stone Quarry and Gravel lease over an extent of 2.07.0 Ha (Patta Land) at S.F.Nos. 208/1 (Part) of Ramapattinam Village, Pollachi Taluk, Coimbatore 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.

During deliberations and from the KML file uploaded in the PARIVESH Portal, the Committee observed that:

  
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- i) The proposed site is a fresh area.
- ii) The proposed project area is surrounded by numerous coconut trees and farms on all sides.
- iii) A crusher and two other quarries are already operating near the proposed project area and hence the commencement of one more quarry (current proposal) operation in the area will lead to excessive dust and noise pollution load disrupting the existing environmental settings.

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

**Agenda No: 401-18**

**(File No: 9890/2023)**

**Proposed Rough stone & Gravel quarry lease over an extent of 2.48.15Ha at SF.No. 349/2(P), 349/3(P) ,349/5(P), 349/8(P) ,349/9(P) & 349/11(P) of Sathyamangalam Village, Kulathur Taluk, Pudukottai District, Tamil Nadu by Thiru. M. Rasu - for Environmental Clearance. (SIA/TN/MIN/432437/2023, Dated:07.06.2023)**

The proposal was placed in 401<sup>st</sup> meeting of SEAC held on 16.08.2023. 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.M.Rasu has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 2.48.15Ha at SF.No. 349/2(P), 349/3(P) ,349/5(P), 349/8(P) ,349/9(P) & 349/11(P) of Sathyamangalam Village, Kulathur Taluk, Pudukottai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

File No	9890/2023		Category	B2
	SIA/TN/MIN/432437/2023, Dated:07.06.2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.M.Rasu S/o.Mariyappan, Door No-587, Pommadimalai.	

  
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		Kulathur Taluk, Pudukkottai District -622501		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone & Gravel quarry	
3.	S.F Nos. of the quarry site with area break-up	:	349/2(P), 349/3(P) ,349/5(P), 349/8(P) ,349/9(P) & 349/11(P)	
4.	Village in which situated	:	Sathyamangalam	
5.	Taluk in which situated	:	Kulathur	
6.	District in which situated	:	Pudukkottai	
7.	Extent of quarry (in ha.)	:	2.48.15Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°30'7.42"N to 10°30'13.573"N 78°47'14.09"E to 77°47'20.24"E	
9.	Topo Sheet No.	:	58 J/14 & 15	
10.	Type of mining	:	Opencast Semi-mechanized Mining	
11.	Life of Project	:	10 Years	
	Lease Period	:	10 Years	
	Mining Plan Period	:	5 Years	
12.	Mining Plan Details	:	As per approved Mining Plan	
			<b>Rough stone</b>	<b>Gravel</b>
	Geological Resources m <sup>3</sup>	:	9,90,880m <sup>3</sup>	49,544m <sup>3</sup>
	Minable Resources m <sup>3</sup>	:	4,28,400m <sup>3</sup>	39,480m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	67,500m <sup>3</sup>	15,080m <sup>3</sup>
	Maximum Depth in meters	:	22m BGL	
13.	Depth of water table	:	55m in rainy season - 60m in summer season	
14.	Man Power requirement per day:	:	18 Employees	
15.	Water requirement:		5.75 KLD	
	1. Drinking water & Utilized water	:	2.75 KLD	
	2. Dust suppression	:	1.5 KLD	
	3. Green belt	:	1.5 KLD	
16.	Power requirement	:	TNEB -	
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Rc.No.42/2022(G&M), Dated:21.10.2022	



18.	Mining Plan approved by Assistant Director, Department of G&M.	:	Rc.No.42/2022(G&M), Dated:03.01.2023		
19.	500m Cluster Letter approved by the Assistant Director, Department of G&M.	:	Rc.No.42/2022(G&M), Dated:03.01.2023		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:07.03.2023		
21.	Project Cost (excluding EMP cost)	:	Rs. 46,76,680/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough stone	Gravel
			Max Total in m <sup>3</sup>	2,96,600m <sup>3</sup>	39,480 m <sup>3</sup>
			Annual Max in m <sup>3</sup>	67,500m <sup>3</sup>	15,080 m <sup>3</sup>
Max Depth in mtrs	22m BGL				
23.	EMP cost (in Rs. Lakh).	:	Rs.102.83 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 67,500m<sup>3</sup> of Rough stone and 15,080m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining of 22m BGL, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) Since the structures, state/national highway roads and railway track are situated within a radial distance of 900 m, the PP shall carry out the scientific studies

within a period of six months from the date of execution of lease, to optimize the blast design parameters for controlling the blast-induced ground/air-vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 3) The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the controlled blasting operations and environmental protection measures for the structures located within 300 m from the lease boundary to the concerned AD (Mines) at the time of execution of lease.
- 4) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) Since the waterbodies are situated within 100 m, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be

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

- 6) The proponent shall erect sheet fencing around the project area and develop thick green plantations around the project site such that the mining activity does not cause any disturbance to the habitations located near the project site.
- 7) As accepted by the Project Proponent the CER cost of Rs.5 lakh and the amount shall be spent for the committed activities at Government School in PU Sathyamangalam Village before obtaining CTO from TNPCB.

**Agenda No: 401-19**

**(File No: 10112/2023)**

**Proposed Rough stone quarry lease over an extent of 1.40.0Ha at SF.No. 73(Part-1) of Ittikal Agaram Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.M. Karthikeyan - for Environmental Clearance. (SIA/TN/MIN/432278/2023, Dated:05.06.2023)**

The proposal was placed in 401<sup>st</sup> meeting of SEAC held on 16.08.2023. 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.M.Karthikeyan has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 1.40.0Ha at SF.No. 73(Part-1) of Ittikal Agaram Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

**Agenda No: 401-20**

**(File No: 10118/2023)**

**Proposed Earth quarry lease over an extent of 1.20.0Ha at SF.No. 263/1A & 264/1 of Keelaperumpallam Village, Tharangambadi Taluk, Mayiladuthurai District, Tamil Nadu by Tmt. E. Vasantha - for Environmental Clearance. (SIA/TN/MIN/432468/2023, Dated:07.06.2023)**

  
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The proposal was placed in 401<sup>st</sup> meeting of SEAC held on 16.08.2023. 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, Tmt.E.Vasantha has applied for Environmental Clearance for the proposed Earth quarry lease over an extent of 1.20.00Ha at SF.No. 263/1A & 264/1 of Keelaperumpallam Village, Tharangambadi Taluk, Mayiladuthurai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and details furnished by the project proponent, SEAC noted that proposed survey numbers included 'Nanjai' land also and the PP should, therefore, get the mining plan revised excluding the wet land and submit the revised plan after which SEAC will take up the proposal for appraisal.

Agenda No: 401-21

(File No: 10124/2023)

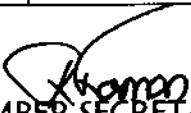
Proposed Earth quarry lease over an extent of 0.96.88Ha at SF.No. 28/1 (P), 30/1A (P), 1B(P), 31/1A1, 1A2 & 2A1A2 of Athangikavanur Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu by Thiru. N. Selvam - for Environmental Clearance. (SIA/TN/MIN/432910/2023, Dated:10.06.2023)

The proposal was placed in 401<sup>st</sup> meeting of SEAC held on 16.08.2023. 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. N. Selvam has applied for Environmental Clearance for the proposed Earth quarry lease over an extent of 0.96.88Ha at SF.No. 28/1 (P), 30/1A (P), 1B(P), 31/1A1, 1A2 & 2A1A2 of Athangikavanur Village, Uthukottai Taluk, Tiruvallur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

File No	10124/2023	Category	B2
	SIA/TN/MIN/432910/2023, Dated:10.06.2023		

  
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Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	: Thiru. N. Selvam M/s. Sakthivel Bricks. Karalapakkam Village, Aavadi Taluk, Tiruvallur District-602 204
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Earth quarry
3.	S.F Nos. of the quarry site with area break-up	: 28/1 (P), 30/1A (P), 1B (P), 31/1A1, 1A2 & 2A1A2
4.	Village in which situated	: Athangikavanur
5.	Taluk in which situated	: Uthukottai
6.	District in which situated	: Tiruvallur
7.	Extent of quarry (in ha.)	: 0.96.88Ha
8.	Latitude & Longitude of all corners of the quarry site	: 13° 15' 19.45" N to 13° 15' 23.06" N 80° 03' 04.45" E to 80° 03' 10.22" E
9.	Topo Sheet No.	: 66 -C/03
10.	Type of mining	: Opencast Shallow Mining
11.	Life of Project	: 1 Year
	Lease Period	: 1 Year
	Mining Plan Period	: 1 Year
12.	Mining Plan Details	: As per approved Mining Plan Earth
	Geological Resources m <sup>3</sup>	: 17,240m <sup>3</sup>
	Minable Resources m <sup>3</sup>	: 11,072m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	: 11,072m <sup>3</sup>
	Maximum Depth in meters	: 2m BGL
13.	Depth of water table	: 42m in rainy season - 47m in summer season
14.	Man Power requirement per day:	: 8 Employees
15.	Water requirement:	
	1. Drinking water & Utilized water	: 1.0 KLD
	2. Dust suppression	: 0.2 KLD
	3. Green belt	: 0.5 KLD 0.3 KLD

16.	Power requirement	:	TNEB -	
17.	Precise area communication approved by the Joint Director, Department of G&M.	:	Rc. No. 75/2022/Mines-2. Dated: 23.11.2022	
18.	Mining Plan approved by Deputy Director, Department of G&M.	:	Rc.No. 13/2022/G&M-2, Dated: 20.02.2023	
19.	500m Cluster Letter approved by the Deputy Director, Department of G&M.	:	Rc.No. 13/2022/G&M-2, Dated: 20.02.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:16.03.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 22,11,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total in m <sup>3</sup>	11,072m <sup>3</sup>
		:	Annual Max in m <sup>3</sup>	11,072m <sup>3</sup>
		:	Max Depth in mtrs	2m BGL
23.	EMP cost (in Rs. Lakh).	:	Rs.12,19,388	
24.	CER cost (in Rs. Lakh).	:	Rs. 2,00,000	

Based on the presentation and details furnished by the project proponent, SEAC decided to recommend the proposal for grant of Environmental Clearance for the annual peak production not exceeding 11,072m<sup>3</sup> of Earth, 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 of one year from the date of lease execution.
2. The proponent shall erect sheet fencing around the project area and develop thick green plantations around the project site such that the mining activity does not cause any disturbance to the habitations located near the project site.

  
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3. The PP shall carry out the required number of plantation as committed in the EMP around the periphery of the lease boundary without deviation before the execution of the lease.
4. As accepted by the Project proponent, the CER cost is Rs.2 Lakhs and the amount shall be spent for the committed activities towards Government Anganwadi School, Anthagikavanur Village before obtaining CTO from TNPCB.

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## ANNEXURE-I

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

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

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

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

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

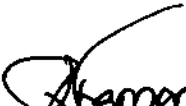
8. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted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

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

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

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

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

  
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**ROUGH STONE/JELLY/BLUE METAL QUARRY**

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

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

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

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



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

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

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

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

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

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

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

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

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

and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

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

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

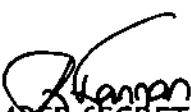
41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

  
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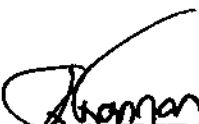
**SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WINDMILLS**

Sl. No	Existing (or) Virgin Quarry	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
1.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.
2.	Special precautions are to be taken during blasting within danger zone such as posting guards, etc.	Blast design parameters should be mentioned in mining plan/scheme. and may be reviewed by a competent mining engineer.	Blast design parameters should be mentioned in mining plan/scheme. and may be reviewed by a competent mining engineer.
3.	Blast design parameters should be mentioned in mining plan/scheme.	MCPD and total charge should be fixed such that it should not exceed 1.3 kg and 26.50 kg respectively.	MCPD and total charge should be fixed such that it should not exceed 1.3 kg and 26.50 kg respectively.
4.	The recommendations of scientific organisation need to be incorporated in the mining plan/scheme before its approval.	Fresh scientific study may be conducted if mine management wants to increase the MCPD and total explosive charge above the quantity of 1.30 kg and 26.50 kg respectively. Continuous monitoring using seismograph should also be done in such cases by the mine management.	Fresh scientific study may be conducted if mine management wants to increase the MCPD and total explosive charge above the quantity of 1.30 kg and 26.50 kg respectively. Continuous monitoring using seismograph should also be done in such cases by the mine management.
5.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.
6.	Training of the blasting crew on controlled blasting practices before engaged in operation.	Training of the blasting crew on controlled blasting practices before engaged in operation.	Training of the blasting crew on controlled blasting practices before engaged in operation.

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

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

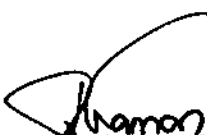
1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:
  - (i) Original pit dimension
  - (ii) Quantity achieved Vs EC Approved Quantity
  - (iii) Balance Quantity as per Mineable Reserve calculated.
  - (iv)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


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

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



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

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

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

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

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

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

  
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## Annexure II

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

#### 1. Statutory Compliance:

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

9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
  10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
2. Air quality monitoring and preservation:
1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
  2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
  3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.
  4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
  5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.
  6. Wet jet shall be provided for grinding and stone cutting.
  7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.
  8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly

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

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

### 3. Water Quality Monitoring and Preservation:

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

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



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

**4. Noise Monitoring and Prevention:**

1. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
  2. Noise level survey shall be carried out as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of Half Yearly Compliance Report (HYCR).
  3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
5. Energy Conservation Measures:
1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
  2. Outdoor and common area lighting shall be LED.
  3. The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
  4. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
  5. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
  6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.

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

**6. Waste Management:**

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

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

**7. Green Cover:**

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

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

**8. Transport:**

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

**9. Human Health Issues:**

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

**10. Corporate Environment Responsibility:**

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

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

**11. Miscellaneous:**

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit Half Yearly Compliance Reports (HYCR) on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

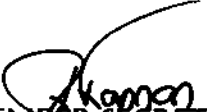
6. The project proponent shall inform the Authority (SEIAA) of the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations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



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

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	வில்லம்
2	<i>Adenaanthera pavonina</i>	Marjadi	மஞ்சளடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாடை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathu	இருவத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamararam	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Serakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	பூசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjalllavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூலி
18	<i>Creteva adansonii</i>	Mavalingum	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயி மரம், ஆயிலி
27	<i>Lanea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுணா
38	<i>Phoenix sylvestre</i>	Eachai	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

40	<i>Premna mollissima</i>	Munnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முள்ளை
42	<i>Premna tomentosa</i>	Malapoovarasu	மலை பூஞ்சு
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புகள் சோப்புகாய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxdomic</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தளம் கெட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்தி
56	<i>Terminalia arjuna</i>	Ven marudhu	வென் மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூஞ்சு
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பழி

  
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Appendix -III

Display Board

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

-----கரங்கம்

கரங்கங்களில் குவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கிழகம் நடத்தலைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAAV, தேதி உட்பட்டிருக்க, சுற்றுச்சூழல் அனுமதி தேதி வரை செயல்படுத்தக்கூடாது உடனடி

பணம் பகுதி வார்டி	குவாரியின் எல்லைகள் சுற்றி வேலி அமைக்க வேண்டும்
வெள்ளாட்டுக்கான அங்கு திட்டம்	அங்குள்ளதரின் ஆழம் தரப்பட்டிருக்கிறது மீட்டர்க்கு மிகாமல் இருக்க வேண்டும்
	காற்றில் மாசு ஏற்படாதவாறு அங்கு பாசிகளை வெற்றொன்ற வேண்டும்.
நட்பட்டி	வாகனங்கள் செல்லும் பாதையில் மாசு ஏற்படாத அளவிற்கு தண்ணீர் முன்பாக தண்ணீர் வாரிகளின் மூலமாக அவ்வப்போது தெளிக்க வேண்டும்.
புறநகர்ப்பட்டி வேலியை மரங்கள் எண்ணிக்கை:	இளஞ்செல் அளவைகள் தர மரங்கள் மூன்றுபயற்கை குவாரியின் எல்லைகள் சுற்றி அடத்தியான பணம் பகுதியை ஏற்படுத்த வேண்டும்.
	அங்குதரில் வெளியே எல்லாப்பகுதியும் நிலத்திலுள்ள ஏற்படாதவாறு மற்றும் அதன் பற்கைகளும் பாதையில் நட வாகனங்களை உடனடியாக செயல்படுத்தப்பட வேண்டும்.
	அங்குதரில் இருந்து ஏற்படும் இளஞ்செல் அளவு 85 செ.மீ. (85) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.
	அங்கு சட்ட விதிகள் 1988 கீழ் அங்குதரில் உடனடியான பாதைகளுக்கு தகுந்த பாதைகள் கட்டுவதில் வரம்புகளை கடைபிடிக்க வேண்டும்.
	கிராமம் அல்லது பகுதியில் வசிப்பவர்களை அங்குதரில் சமையல் செய்து தள்ளு பாதைகளை வேண்டும்.
	அங்குபாசிகளை அங்கு உடனடியான பாசிகள் மற்றும் தீயிலைகள் பாதைகளை உடனடி
	நீர்நிலைகள் பாதைகளை மூலம் இருப்பதை உறுதி செய்தல் வரையில் நிலத்தின் தரத்தினை தெரிந்து கொள்ளவேண்டும்.
	அங்குதரில் இருந்து வரம்புகளை எடுத்துச் செல்லும் கிராம மக்களுக்கு எந்த தீயிலைகள் ஏற்படுத்தாதவாறு பாதைகளை மற்றும் சுற்றுச்சூழல் பாதைகளை வரம்புகளை வரம்புகளை இயக்க வேண்டும்.
	அங்குபாசிகள் முடிக்கப்பட்டவுடன் அங்கு மூலம் திட்டத்தில் உடனடியான அங்குதரின் மூல வேண்டும்.
	அங்கு நடவடிக்கைகளை முடித்தபின்னர் அங்கு பகுதி மற்றும் அங்கு நடவடிக்கைகளை இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுபுறமாக செல்லு தரவரம்புகள் விவரங்கள் ஆகியவற்றின் வார்டிக்கு ஏற்ற வகையில் பாதைகளை உடனடியாக வேண்டும்.
	முழுமையான திட்டத்தை அங்கு பாதை ( <a href="http://parish.nic.in">http://parish.nic.in</a> ) எனும் இணையதளத்தை பாதைகளை மூலம் எந்தவித சுற்றுச்சூழல் சந்திர பாதைகளை செல்லவையில் உடனடி சுற்றுச்சூழல் மற்றும் வன அமைச்சுதரின் ஒருமிக்க வட்டார அலுவலகம்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாசு கட்டுப்பாடு வாரியத்தின் மாசு கட்டுப்பாடு செயல்பாடுகளை அங்கு

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