

State Expert Appraisal Committee (SEAC)

Minutes of 419th meeting of the State Expert Appraisal Committee (SEAC) held on 01.11.2023 (Wednesday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building and Construction projects, Thermal Power Plant projects and Mining projects.

Confirmation of Earlier Minutes

The minutes of the 418th SEAC meeting held on 19.10.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No. 419 – 01.

(File No: 9393/2023)

Proposed Rough Stone and Gravel quarry lease over an extent of 4.26.72Ha at S.F.No.149/2B, 149/3A, 149/3B, 149/3C, 149/4A, 149/4B & 149/4C of Arasampalayam Village, Pollachi Taluk, Coimbatore District, Tamil Nadu by Tvl. Sree Mahalakshmi Blue Metals - For Environmental Clearance. (SIA/TN/MIN/434251/2023 Dt. 22.06.2023)

Earlier, the proposal was placed in this 400th Meeting of SEAC held on 11.08.2023. 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, Tvl. Sree Mahalakshmi Blue Metals has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 4.26.72 Ha at S.F.No.149/2B, 149/3A, 149/3B, 149/3C, 149/4A, 149/4B & 149/4C of Arasampalayam Village, Pollachi Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.

3. ToR vide. Lr No. SEIAA-TN/MF.No.9393/SEA


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C/ToR-1276/2022, Dated: 08.10.2022 for the production of 7,52,600 cu.m of Rough Stone & 61836 cu.m of Gravel and depth upto 37m.

4. Public hearing was conducted on 07.02.2023.
5. EIA received on 07.07.2023.
6. The precise area communication was issued for the period of 5 Years. The approved mining plan is for the period of 1st five years & production should not exceed 810600m³ of Rough Stone & 61836m³ of Gravel. The annual peak production is 164125m³ of Rough Stone (4th Year) & 27802m³ of Gravel (1st Year) The depth of mining is 42m BGL.

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	: Tvl. Sree Mahalakshmi Blue Metals (proprietor: V. Senthilkumar No. 924, Chettipalayam Madukkarai Coimbatore - 641032
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	: Rough Stone and Gravel
3.	S.F Nos. of the quarry site with area break-up	: 149/2B, 149/3A, 149/3B, 149/3C, 149/4A, 149/4B & 149/4C
4.	Village in which situated	: Arasampalayam
5.	Taluk in which situated	: Pollachi
6.	District in which situated	: Coimbatore
7.	Extent of quarry (in ha.)	: 4.26.72Ha
8.	Latitude & Longitude of all corners of the quarry site	: 10°52'15.73"N to 10°52'22.58"N 77°02'22.96"E to 77°02'33.29"E
9.	Topo Sheet No.	: 58 – F/01
10.	Type of mining	: Opencast Mechanized of Mining
11.	Life of Project	: 5Years
	Lease Period	: 5 Years
	Mining Plan Period	: 5 Years
12.	Mining Plan Details	: As per approved Mining Plan


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	Geological Resources m ³ (RoM)	:	Rough Stone in m ³	Gravel in m ³
			1706880m ³	85344m ³
	Mineable Resources m ³ (RoM)	:	Rough Stone	Gravel
			810600m ³	61836m ³
	Annual Peak Production in m ³	:	Rough Stone	Gravel
			164125m ³	27802m ³
	Ultimate Depth in meters	:	42m	
13.	Depth of water table	:	70m-65m BGL	
14.	Man Power requirement per day:	:	79 Nos.	
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.5 KLD 0.3 KLD 0.7 KLD 0.5 KLD	
16.	Power requirement	:	TNEB	
17.	Precise area communication approved by the, District Collector, with date	:	Rc.No.1241/Kanimam/2021, dt:06.05.2022	
18.	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Rc.No.1241/Mines/2021, dt:20.06.2022	
19.	Assistant Director, Department of Geology and Mining 500m cluster letter	:	Rc.No.1241/Mines/2021, dt:20.06.2022	
20.	VAO certificate regarding 300m radius cluster	:	Letter dt: 17.06.2022	
21.	Project Cost (excluding EMP cost)	:	Rs.170.86 Lakh	
22.	EC Recommendation	:	1st Five Years as per approved mining plan	
		:	Max Total RoM in m ³	7,52,600 61836
		:	Annual Max RoM in m ³	1,64,125 27802


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		:	Max Depth in mtrs	37 m
23	EMP cost (in Rs. Lakh).	:	Capital Cost - Rs.42.11 Lakhs Recurring Cost - Rs. 33.68 Lakhs With 5% inflation for the recurring cost.	
24	CER cost (in Rs. Lakh).	:	Rs.15 Lakhs	

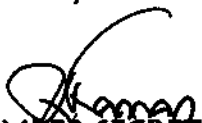
Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production shall not exceed 164125m³ of Rough Stone & 27802 m³ of Gravel by restricting the ultimate depth of mining upto 37m 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 stated therein.

Subsequent, the subject was placed in the 651st Authority meeting held on 30.08.2023. The Authority noted that the subject was appraised in the 400th SEAC meeting held on 11.08.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

From the KML file furnished by the PP for the proposed mining area, the authority noted that the railway line is at 210 m distance from the proposed mining area. Further, committee observed that as per rule no. 164 (1-A) of (b) & (c) of The Metalliferous Mines Regulations, 1961 States that

“(b) Unless sufficient warning, by efficient signals or other means approved by the manager, is given over the entire area falling within a radius of 300 meters from the place of firing (hereinafter referred to as the danger zone) an also he has ensured that all persons within such area have taken proper shelter,

(c) Where any part of a public road or railway lies within the danger zone, unless two persons are posted, one in either direction at the two extreme points of such road or railway which fall within the danger zone who have, by an efficient system of telephonic communication or hooter or loudspeakers or other means approved by the Chief Inspector or Regional Inspector intimated clearance of traffic to the blaster and


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have also warned the passersby and whenever possible the vehicle also, if any, which have passed by such road or railway :

Provided that if blasting is done in such a manner approved in writing, by the Chief Inspector or Regional Inspector, that the flying fragments from blasting cannot project beyond a distance of ten meters from the place of firing, the provisions of clauses (b) and (c) need not be complied with."

In view of the above, the authority decided to refer back the proposal to SEAC for remarks and recommendation.

This proposal was again placed for appraisal in 419th SEAC meeting held on 01.11.2023. Based on the presentation, reply & documents furnished and the Committee carefully examined the points raised by SEIAA and the replies given by the PP.

S. No	SEIAA QUERY	REPLY
1	<p>From the KML file furnished by the PP for the proposed mining area, the authority noted that the railway line is at 210 m distance from the proposed mining area. Further, committee observed that as per Rule No.164 (1-A) of (b) & (c) of the Metalliferous Mines Regulations, 1961 States that</p> <p><i>"(b) Unless sufficient warning, by efficient signals or other means approved by the manager, is given over the entire area falling within a radius of 300 meters from the place of firing (hereinafter referred to as the danger zone) an also he has</i></p>	<ul style="list-style-type: none">• Obtain Permission under Reg 106 (2) (b) for without deep hole drilling and blasting and deployment of HEMM read with Reg. 164 (1-A) (a) (b) & (c) and 164 (1-B) (a) & (b) with specific condition of -• Blasting operation will be carried out under the supervision of Mines Manager and the blasting will be carried out only by the Mining Mate / Blaster Certified.• Sentries will be posted within danger zone to give proper siren alarm to the public.


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ensured that all persons within such area have taken proper shelter.

(c) Where any part of a public road or railway lies within the danger zone, unless two persons are posted, one in either direction at the two extreme points of such road or railway which fall within the danger zone who have, by an efficient system of telephonic communication or hooter or loudspeakers or other means approved by the Chief Inspector or Regional Inspector intimated clearance of traffic to the blaster and have also warned the passersby and whenever possible the vehicle also, if any, which have passed by such road or railway :

Provided that if blasting is done in such a manner approved in writing, by the Chief Inspector or Regional Inspector, that the flying fragments from blasting cannot project beyond a distance of ten meters from the place of firing, the provisions of clauses (b) and (c) need not be complied with."

In the view of the above the authority decided to refer back the proposal for the remarks and recommendations.

- Explosives shall not exceed 2kgs per one round of blasting with controlled blasting methods.
- Other approved permission of the order will be implemented and practised.
- Adequate Mitigation Measures as per the recommendations of SEAC have been incorporated in the EIA Report and SEAC PPT and highlighted as below.

Additional EMP Proposed in regard to SEIAA remarks raised in 651 st authority meeting held on 30.08.2023.		
Air Environment	Enforcing speed limits of 20 km/hr within ML area.	Installation of Speed Governors @ Rs. 5000/- per Tipper/Dumper deployed - 10 Units.
Noise Environment	Safety tools and implements that are required will be kept adequately near blasting site at the time of charging.	Provision made in OHS part
	Line Drilling all along the boundary to reduce the PPV from blasting activity and implementing controlled blasting.	Provision made in Operating Cost
	Proper warning system before blasting will be adopted and clearance of the area before blasting will be ensured.	Blowing Whistle by Mining Mate / Blaster / Competent Person
	Provision for Portable blaster shed	Installation of Portable blasting shelter
	NONEL Blasting will be practiced to control Ground vibration and fly rocks	Rs. 30/- per 6 Tonnes of Blasted Material
Implementation of EC, Mining Plan & DGMS Condition	Monitoring of Ground vibration	Blasting study will be carried out every year by the reputed research institute
	To prevent dust particles and fly rocks to the railway line	Sheet fencing will be erected on the west side to control the dust particles and fly rocks to the railway line to


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		the length of 150m
	Implementation as per Mining Plan and ensure safe quarry working	Mines Manager (1 st Class / 2 nd Class / Mine Foreman) under regulation 34 / 34 (6) of MMR, 1961 and Mining Mate under regulation 116 of MMR, 1961 @ 40,000/- for Manager & @ 25,000/- for Foreman / Mate.

SEAC, after careful examination of the replies submitted by the PP, decided to re-confirm the recommendation already made in 400th Meeting of SEAC held on 11.08.2023. All other conditions prescribed shall remain unchanged.

Agenda No: 419 -02.

(File No: 10043/2023)

Proposed Rough Stone and Gravel Quarry over an extent of 4.96.0Ha SF.No.1002/B (P), 1008 And 1009/B(P) of Monjanur (East) Village, Pugalur Taluk, Karur District by Thiru. N. Sivakumar - For Environmental Clearance. (SIA/TN/MIN/428962/2023 dt:17.05.2023)

Earlier, the proposal was placed in 391st SEAC Meeting held on 13.07.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. Earlier, the PP has obtained EC through DEIAA vide Lr.No. DEIAA-DIA/TN/MIN/6796/2017-KRR, EC.No.3- Dt:23.06.2017 valid upto 22.06.2023 (including Covid relaxation as per MoEF&CC notification Dt:18.01.2023) for over an extent of 4.96.0 ha, Rough Stone - 138431 m³, & Depth - 9m.
2. Certified Compliance Report from IRO (SZ), MoEF&CC vide E.P./12.1/2023-24/SEIAA/44/TN/835 Dt:11.07.2023.
3. MoEF&CC OM Dt:28.04.2023.


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4. Now, the project proponent, Thiru. N. Sivakumar has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry over an extent of 4.96.0Ha SF.No.1002/B (P), 1008 And 1009/B(P) of Monjanur (East) Village, Pugalur Taluk, Karur District, Tamil Nadu.
5. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
6. The precise area communication was issued for the period of 5 Years. The approved mining plan is for the period of five years & production should not exceed 175627m³ of Rough Stone, 12000m³ of Weathered Rock & 24786m³ of Gravel. The annual peak production is 35250m³ of Rough Stone (1st Year), 7500m³ of Weathered Rock & 15300m³ of Gravel (1st Year) . The depth of mining is 18m BGL.

Based on the presentation and documents furnished by the project proponent, SEAC noted that in the earlier EC issued by DEIAA vide Lr. No. DEIAA-DIA/TN/MIN/6796/2017-KRR, EC.No.3- Dt:23.06.2017 reveals the existing pits of 2 nos. with depth of 10m but in the current approved mining plan & CCR it was mentioned that the existing pits of 2 nos. with depth of 9m & 8m. In this connection, the proponent shall furnish (i) A clarification letter obtained from AD/DD, Dept. of G&M after having carried out a field inspection, (ii) Revised EMP details & cost including mine closure plan for the life of mine.

Subsequently, the proposal was placed in the 641th Authority meeting held on 27.07.2023 and the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 13.07.2023.

This proposal was again placed for appraisal in 419th SEAC meeting held on 01.11.2023. Based on the presentation, reply & documents furnished by the PP and the Committee has decided to call for additional particulars as follows

- i) The PP shall dewater the existing pit and measure the existing depth of the pit by a Qualified Surveyor possessing the Surveyor's certificate of competency to survey the workings of a mine (Surveyor's Certificate) issued under Reg. 12 (2)


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(c) of MMR 1961, in presence of the EIA Coordinator and the same shall be duly certified by the concerned AD/DD (Mines), Dept. of Geology & Mining. On receipt of the above, further deliberations will be carried out. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

Agenda No. 419-03

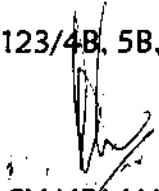
(File No.517/2023)

Proposed construction of Residential Building Complex entitled "MARG Brindavan" with built up area of 2,65,000 Sq.m at S.No: 88/1, 91/1, 2, 121/1B, 2B, 122/1A, 1B1, 2B, 3, 123/4B, 5B, 498/1B, 499/1, 2, 3, 4, 5, 6, 7, 8, 500/1A, 1B, 2A, 3, 4A, 5A, 6B, 501/4B, 8, 9, 10B of Pondur 'B' Village, Sriperumbudur Taluk, Kancheepuram District Tamil Nadu by M/s. MARG Properties Limited - For Environmental Clearance under Violation. (SIA/TN/MIN/27313/2018, Dated:25.08.2017).

The proposal was placed in the 419th Meeting of SEAC held on 01.11.2023. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in). The SEAC noted the following:

1. The Proponent, M/s. MARG Properties Limited has applied to SEIAA-TN for obtaining ToR under violation notification dated: 08.03.2018 of MoEF & CC on 31.03.2018, for the construction, of Residential Building Complex entitled "MARG Brindavan" with built up area of 2,65,000 Sq.m at S.No: 88/1, 91/1, 2, 121/1B, 2B, 122/1A, 1B1, 2B, 3, 123/4B, 5B, 498/1B, 499/1, 2, 3, 4, 5, 6, 7, 8, 500/1A, 1B, 2A, 3, 4A, 5A, 6B, 501/4B, 8, 9, 10B of Pondur 'B' Village, Sriperumbudur Taluk, Kancheepuram District, Tamilnadu.
2. The ToR was issued by SEIAA vide Lr.No.SEIAA-TN/F.No.517/SEAC-CXIII/Violation/ToR-496/2018 dated:14.06.2018.
3. Based on the ToR, the proponent submitted the EIA report to SEIAA-TN on 13.07.2018. The EIA report was placed in the 117th SEAC meeting held on 27.07.2018. The Committee observed that the project of M/s. MARG Properties Limited at S.No: 88/1, 91/1, 2, 121/1B, 2B, 122/1A, 1B1, 2B, 3, 123/4B, 5B, 498/1B,


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499/1, 2, 3, 4, 5, 6, 7, 8, 500/1A, 1B, 2A, 3, 4A, 5A, 6B, 501/4B, 8, 9, 10B of Pondur 'B' Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu comes under the "Low Level Ecological damage category". The Committee decided to recommend the proposal to SEIAA for grant of post construction EC subject to the following conditions in addition to the normal conditions:

- The amount prescribed for Ecological remediation (Rs. 107.88 lakhs), natural resource augmentation (Rs. 43.15 lakhs) & community resource augmentation (Rs. 64.72 lakhs), totalling Rs. 215.75 lakhs shall be remitted in the form of bank guarantee to Tamil Nadu Pollution Control board, before obtaining Environmental Clearance and submit the acknowledgement of the same to SEIAA-TN. The funds should be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
- The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of six months. If not, the bank guarantee will be forfeited to TNPCCB without further notice.
- The amount specified as CER (Rs. 107.88 Lakhs) shall be remitted in the form of DD to the beneficiary before issue of EC for the following activities. A copy of receipt from the beneficiary shall be submitted before issue of EC.
- Certificate for structural safety from Stability certificate should be obtained from reputed institutions like Anna University, IIT, NIT, Central Universities, Government Engineering colleges, PWD & Structural Engineering Research Centre of Government of India before obtaining CTO from TNPCCB.
- The treated excess sewage of 663 KLD should be used for watering the trees in the avenue plantation along the Sriperumbudur Singaperumal Koil State highway (the stretch of the highway from Sriperumbudur in the


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north to Appur village in the south totalling to 19.5 Km) as committed by the proponent.

- “As per the MoEF & CC Notification, S.O.1030 (E) dated:08.03.2018, “The project proponent will be required to submit a bank guarantee equivalent to the amount of remediation plan and Natural and Community Resource Augmentation Plan with the State Pollution Control Board and the quantification will be recommended by the Expert Appraisal Committee for category A projects or by the State or Union territory level Expert Appraisal Committee for category B projects, as the case may be, and finalised by the concerned Regulatory Authority, and the bank guarantee shall be deposited prior to the grant of environmental clearance”
4. Subsequently, the subject was placed in the 329th SEIAA meeting held on 06.08.2018. The Authority decided to accept the recommendation of the SEAC and direct the proponent to furnish bank guarantee to Tamil Nadu Pollution Control Board as recommended by the SEAC and furnish the copy of the receipt so as to take further action.
5. The above details were communicated to the project proponent vide letter dated 06.08.2018. The Proponent has furnished a request letter on 05.12.2018 stating the following,
- *“We have completed only 10% of the overall project so the charges raised by yourself can be completed waived.*
 - *The existing purchases/customers are all gone for RERA as the project is under standstill progress.*
 - *As the project is under standstill progress the existing purchases and the proposal purchasers and the present real estate value are all gone in an uncertain way.”*
6. Hence, the subject was placed before the 335th SEIAA Meeting held on 31.12.2018. The authority decided to refer back this subject to SEAC for scrutinizes the above said representation submitted by the proponent.


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7. Again, the proposal was placed in the 124th SEAC Meeting held on 04.01.2019. The Committee discussed in detail and decided that the proponent representation as requested cannot be completely waived and committee decided to stay with the recommendation already issued to the proponent.

Meanwhile, again the PP had submitted a representation to the O/o SEIAA along with present status of the project and Project Cost Certificate, stating the following,

"...we wish to state that we have completed construction of only 20% of the buildings proposed and remaining 80% of the works yet to be started. The block wise status of construction is enclosed and the total project cost of the completed construction is Rs 37.99 Crores. In view of this, we pray and request the SEAC/SEIAA to levy the charges towards the ecological damages based on the completed construction of our project i.e Rs 37.99 Crores and not on the overall project cost of Rs.431.52 Crores."


Subsequently, the subject was placed in the 649th meeting of Authority held on 23.08.2023. After detailed discussions, the authority decided to refer back this subject to SEAC for scrutinizes the above said representation submitted by the proponent. Hence, the proposal was placed in the 419th Meeting of SEAC held on 01.11.2023. The SEAC decided to constitute a Sub Committee to examine the documents furnished by the Proponent for reassessment of ecological damage and submit its report along with the recommendations to the Committee.

Agenda No. 419-04

File No: 8668/2022

Proposed Rough stone quarry lease area over an extent of 1.40.0 Ha at S.F.Nos. 284/2A1 (P) & 284/2A2 (P) of Iduvai Village, Tiruppur South Taluk, Tiruppur District, Tamil Nadu by Thiru.K.Balasubramaniam - For Environmental Clearance (SIA/TN/MIN/401296/2022 Dt.18.11.2022).

The proposal was earlier placed for appraisal in the 330th meeting of SEAC held on 17.11.2022. The details of the project furnished by the proponent are given in the website(parivesh.nic.in). The SEAC noted the following:


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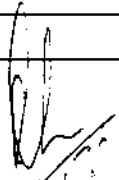
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1. The project proponent, Thiru. K.Balasubramaniam has applied for Environmental Clearance for the proposed Rough stone quarry lease area over an extent of 1.40.0 Ha at S.F.Nos. 284/2A1 (P) & 284/2A2 of (P) Iduvai Village, Tiruppur South Taluk, Tiruppur District, Tamil Nadu. It is a Govt. poromboke land.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 136545m³ of Rough stone. The Annual peak production as per mining plan is 34560 m³ of rough stone (1st year) with ultimate depth – 46m BGL (existing pit-26m BGL & Proposed depth -20m BGL).
4. ToR issued vide Lr.No.SEIAA-TN/F.No.8668/SEAC/ToR-1149/2021 Dated: 20.05.2022.
5. Public hearing was conducted on 19.04.2022.
6. EIA report submitted on 29.09.2022.
7. The Salient features of the proposed quarry as follows.

File No	8668		Category	"B1" 1(a)
	SIA/TN/MIN/401296/2022 Dt.18.11.2022			EC
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.K.Balasubramaniam S/o. Kandasamy Gounder No.245-G, Sambakkadu Thottam 63, Velampalayam Village, Palladam Taluk Tiruppur District.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone quarry	
3.	S.F Nos. of the quarry site with area break-up	:	284/2A1 (P) & 284/2A2 (P)	
4.	Village in which situated	:	Iduvai Village	


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5.	Taluk in which situated	:	Tiruppur South Taluk	
6.	District in which situated	:	Tiruppur	
7.	Extent of quarry (in ha.)	:	1.40.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	11°03'38.17" N to 11°03'44.33" N 77°16'33.28" E to 77°16'36.41" E	
9.	Topo Sheet No.	:	58 - E/08	
10.	Type of mining	:	Opencast Mechanized Mining Method involving drilling and blasting	
11.	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone – 4,89,928m ³	Rough Stone – 4,89,928m ³
	Minable Resources m ³ (RoM)	:	Rough Stone – 1,36,545 m ³	Rough Stone – 1,36,545 m ³
	Annual Peak Production in m ³	:	Rough Stone – 34,560m ³	Rough Stone – 34,560m ³
	Maximum Depth in meters	:	41m BGL	
13.	Depth of water table	:	58 -62m BGL	
14.	Man Power requirement per day:	:	19 Nos.	
15.	Water requirement:	:	4.0 KLD	
	1. Drinking water & Utilized	:	1.5 KLD	
	2. Dust suppression	:	1.5 KLD	
	3. Green belt	:	1.0KLD	
16.	Power requirement	:	TNEB 1.09.232Liters of HSD	
17.	Precise area communication approved by District Collector .	:	Na Ka No150/2021/Kanimam, dated 27.01.2021	



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18.	Mining Plan approved by Deputy Director, Department of Geology and Mining..	:	Rc.No.150/2020 Mines/ Dated: 23.02.2021	
19.	Assistant Director, Department of Geology and Mining, 500m Cluster Letter	:	Rc.No.150/2021 Mines/ Dated: 23.02.2021	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 13.07.2021	
21.	Project Cost (excluding EMP cost)	:	Rs. 54,18,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits. Rough Stone
		:	Max Total RoM in m ³	1,36,545m ³
		:	Annual Max RoM in m ³	34,560 m ³
		:	Max Depth in mtrs	41m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 17,49,000/- recurring cost – Rs. 14,54,817/-	
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- as accepted by the PP	
25.	ToR issued	:	Lr.No.SEIAA-TN/F.No.8668/SEAC/ToR-1149/2021 Dated: 20.05.2022	
26.	Public hearing	:	19.04.2022	
27.	EIA submitted Dated	:	29.09.2022	

The SEAC noted that the EIA coordinator/PP had conducted the public hearing even before obtaining ToR from SEIAA. Public hearing carried out on Draft EIA/EMP study report without a ToR is not valid for acceptance. SEAC also noted that TNPCB had conducted public hearing for this proposal even before ToR was issued. The Committee, therefore, decided to request SEIAA to obtain explanations from TNPCB.


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PP and EIA-Coordinator for this serious lapse, in the first place, before proceeding further in the matter.

Subsequently, the proposal was placed in the 575th Authority meeting held on 06.12.2022. After detailed discussion, the Authority decided to request the MS-SEIAA to obtain Explanation from TNPCB, PP and EIA-Coordinator for this serious lapse.

Based on the reply submitted by the TNPCB and PP to the O/o SEIAA, the subject was placed in the 635th Authority meeting held on 05.07.2023. After detailed discussion, the Authority decided to forward the proposal to SEAC-TN for further course of action.

Hence, the proposal was placed in this 404th Meeting of SEAC held on 25.08.2023. During the meeting it was noted that the EIA-Coordinator has not submitted Explanation for the above shortcomings observed by the SEAC. Hence, the SEIAA may obtain explanation from the EIA-Coordinator also for this serious lapse.

On the receipt of reply, the proposal was again placed in the 419th Meeting of SEAC held on 01.11.2023. The Committee noted that ToR issued was similar to those for others in the same cluster. The PP has conducted Public Hearing along with other mines before issue of ToR. Both PP and EIA Coordinator tender their apologies for conducting Public Hearing before issue of ToR.

Further SEAC observed the following:

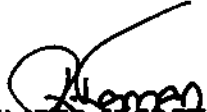
1. The proposed quarry is a Government Tender Auctioned quarry and the tender was awarded to the PP on 20.01.2021.
2. ToR condition issued is identical to the ToR condition issued for other quarries belongs to the same cluster.
3. It forms part of same cluster and the public notice was issued in the local Newspaper with the S.F. Numbers pertaining to this proposal were also mentioned.
4. The TNPCB has also considered the above facts while conducting the Public Hearing.


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In view of above circumstances, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 34,560 m³ of rough stone by maintaining the ultimate depth of mining up to 41m 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 not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the 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. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry walls in a hilly terrain within a period of six months from the


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commencement of mining operations for evaluating the slope stabilization & protective measures at the ultimate pit limits, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

5. As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall join with other quarries operating in the same cluster area to monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
6. Tree plantation & fencing around the mine lease area shall be completed before obtaining the CTO.
7. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations to the concerned AD (Mines) at the time of execution of lease.
8. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Middle School, Bharathipuram Village before obtaining CTO from TNPCB.

Agenda No. 419-05

(File No.9046/2023)

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


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

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

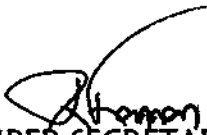
File No	9046		Category	1(a) – B1	
	Online Proposal: SIA/TN/MIN/422799/2023 dated: 20/03/2023			EC	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	Thiru.K.M.Subramanian, S/o.A.Muthusamy , No.46/3, P.K.P.Layout , R.S.Puram , Coimbatore District – 641002.		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone quarry		



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3.	S.F Nos. of the quarry site with area break-up	:	94/1A, 94/9A & 94/10A	
4.	Village in which situated	:	Pachapalayam	
5.	Taluk in which situated	:	Sulur	
6.	District in which situated	:	Coimbatore	
7.	Extent of quarry (in ha.)	:	1.45.0Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°52'59.06"N to 10°53'03.97"N 77°02'58.20"E to 77°03'06.54"E	
9.	Topo Sheet No.	:	58 - F/01	
10.	Type of mining	:	Opencast Mechanized Method Mining	
11.	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone- 3,48,075 m ³	Rough Stone- 3,48,075 m ³
	Minable Resources m ³ (RoM)	:	Rough Stone - 1,01,330m ³	Rough Stone - 97,310 m ³
	Annual Peak Production in m ³	:	Rough Stone - 22,220 m ³	Rough Stone - 22,220 m ³
	Maximum Depth in méters	:	27m BGL	22m BGL
13.	Depth of water table	:	70m -65m below ground level	
14.	Man Power requirement per day:	:	18 Nos.	
15.	Water requirement:		2.0 KLD	
	1. Domestic & Drinking water		0.5 KLD	
	2. Dust suppression		1.0 KLD	
	3. Green belt		0.5 KLD	
16.	Power requirement		TNEB 81,072 Liters of HSD for the entire period of life	


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17.	Precise area communication approved by the Assistant Director, Department of Geology and Mining	:	Rc.No. 256/Mines/2018, Dated: 07.09.2020	
18.	Mining Plan approved by Assistant Director, Department of Geology and Mining.	:	Rc.No. 256/Mines/2018, Dated: 25.02.2021	
19.	Assistant Director and Department of Geology and Mining 500m Cluster Letter	:	Rc.No. 256/Mines/2018, Dated: 25.02.2021	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:20.05.2021	
21.	Project Cost (excluding EMP cost)	:	Rs. 33,90,000 /-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	97,310 m ³
		:	Annual Max RoM in m ³	22,220 m ³
		:	Max Depth in mtrs	22m
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.29,97,129/- recurring cost – Rs. 13,74,406 /-	
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- as accepted by the PP	
25.	Tor Issued	:	Lr.No.SEIAA-TN/F.No.9046/SEAC/ToR-1154/2022 Dated: 06.06.2022.	
26.	Public Hearing	:	23.11.2022	
27.	EIA Report Submitted	:	06.04.2023	

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

- 1) The PP shall furnish the registered consent obtained from the pattadhars for all the survey numbers of the mine lease area.


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

On the receipt of aforesaid details, the proposal was again placed in the 419th Meeting of SEAC held on 01.11.2023. The Project proponent made a presentation along with the clarifications for the above shortcomings observed by the SEAC.

S. NO	SEAC QUERY	REPLY
1	The PP shall furnish the registered consent obtained from the pattadhars for all the survey numbers of the mine lease area.	It is a patta land. Registered in the name of the Tmt.S.Gokilamani W/o. K.M. Subramanian, vide Patta No.318. The Pattadhar given General Power of Attorney to the proponent and the same has been registered vide Document No. 9460/2021 (Slide No 5 & 6)
2	Besides, the structure within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300m shall be enumerated with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds etc.,	The detailed studies on structures located in the 300m radius from the proposed quarry will be discussed.
3	The PP shall furnish VAO certificate with reference to 300m radius regard to	The Project Proponent obtained VAO letter regarding approved habitations located around 300m radius.


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<p>approved habitations, schools, Archaeological, structure, etc., as mentioned in the ToR issued.</p>	<p>No approved habitations within the radius of 300m from the project site.</p>
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 97310 m³ of rough stone by maintaining the ultimate depth of mining upto 22m 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 not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 3) The PP shall obtain prior permission from the Director of Mines Safety, Chennai Region immediately after executing the lease for carrying out the systematic & scientific mining and a copy of the same shall be furnished to the AD (Mines) and the SEIAA.
- 4) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to 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


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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) As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall join with other quarries operating in the same cluster area to monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 6) 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.
- 7) The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations to the concerned AD (Mines) at the time of execution of lease.
- 8) 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 Higher Secondary School, Arasampalayam Village before obtaining CTO from TNPCB.

Agenda No: 419-06

(File No: 10331/2023)

Proposed Expansion of Production Capacity of Textile Finishing Chemicals from 3682.032 TPA to 18,000 TPA at Plot No. 367, SIDCO Industrial Estate (North Phase), SF.No. 144, 152, 153, 161 & 162 of Ambattur Village, Ambattur Taluk, Thiruvallur District, Tamil Nadu by M/s. Beva Silicones Private Limited - For grant of Terms of Reference. (SIA/TN/IND3/425929/2023, dated: 11.08.2023).


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The proposal was earlier placed for appraisal in the 409th Meeting of SEAC held on 21.09.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in). The SEAC noted the following:

1. The Proponent, M/s. Beva Silicones Private Limited has applied for Terms of Reference for the Proposed Expansion of Production Capacity of Textile Finishing Chemicals from 3682.032 TPA to 18,000 TPA at Plot No. 367, SIDCO Industrial Estate (North Phase), SF.No. 144, 152, 153, 161 & 162 of Ambattur Village, Ambattur Taluk, Thiruvallur District, Tamil Nadu.
2. The project/activity is covered under Schedule 5(f) Category 'B'- Synthetic Organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic synthetic organic chemicals and chemicals intermediate)" of the Schedule to the EIA Notification, 2006.

The Proponent vide letter dated 20.09.2023 stating his inability to attend the meeting on the aforesaid date, has requested the Committee to reschedule the appraisal of the proposal. The SEAC agreed for the same and decided to defer the subject to a later date. Again, the proposal was placed for appraisal in the 419th Meeting of SEAC held on 01.11.2023. The project proponent was absent for the meeting. SEAC decided to defer the subject to a later date directing the project proponent to furnish the reason for not attending the meeting.

Agenda No: 419 - 07

(File No: 6555/2018)

Expansion of existing hospital facility by M/s. Ganga Medical Centre & Hospitals Pvt Ltd at S.F.No.11/3/1B(Part) of Sangapur village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu - For Environmental Clearance under violation category. (SIA/TN/NCP/24656/2018 dated 21/09/2021)

The proposal was earlier placed for appraisal in the 342nd meeting of SEAC held on 30.12.2022. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The SEAC noted the following:


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1. The Project Proponent, M/s. Ganga Medical Centre & Hospitals Pvt Ltd. has applied seeking Environmental Clearance under Violation for the Expansion of existing hospital facility at S.F.No.11/3/1B(Part) of Sangnur village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR under violation category issued vide Lr.No.SEIAA.F.No. 6555/SEAC/Violation ToR-613/2019 dated: 21.03.2019.
4. EIA report submitted on 29.09.2021.

Based on the presentation and documents furnished by the project proponent, the Committee called for certain additional particulars. Proponent furnished the reply and hence the subject was taken up for discussion in this 345th meeting of SEAC held on 10.01.2023. SEAC decided to make on-site inspection by the Sub- Committee constituted by SEAC. On the receipt of the same SEAC will take further course of action.

Dr. B. Gowtham, Expert Member, SEAC Tamil Nadu inspected the project site on 06.02.2023 and has furnished the following inspection report:

INSPECTION REPORT of the Proposal Seeking Environmental Clearance (EC) under Violation Category for the Expansion of Hospital Facilities, Ganga Hospital Construction, in T.S. No. 11/3/1B part, Mettupalayam Road, Sangnur Village, Coimbatore District, Tamil Nadu SIA / TN / NCP / 24656 / 2018 under Violation Category

1.0 PREAMBLE:

The EC approval was proposed by M/s. Ganga Medical Centre & Hospitals Private Limited, Coimbatore District, Tamil Nadu under Violation Category for Construction with valid EC at Sangnoor Village, Coimbatore District. The salient features of Ganga Medical Centre and Hospitals Private Limited is given below:

SALIENT FEATURES OF THE CONSTRUCTION SITE


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EC Proposal No : SIA / TN / NCP/ 24656 / 2018 SEIAA

File No. : 6555 / 2019

Category : 8 a 'B2', Under Violation

M/s. Ganga Medical Centre & Hospitals Pvt. Ltd., hereinafter Called as "GMCHPL". Ganga Nursing Home was started in 1978 by Dr.J.G.Shanmuganathan at a strength of 17 beds at Coimbatore. In the last 20 years, Ganga Hospital has provided quality Medical care, bringing the injured and disabled people back into their routine life. The Thrust was introducing newer and latest techniques in various microsurgical procedures, Reconstruction of severely Injured Limbs, Replantation of Completely amputated parts, Advanced Skeletal fixation. Patients are referred not only from across the length and width of country but also from the neighboring countries.

2.0 Chronology of the Project:

- Existing Hospital was under the operation from 2010 which is lesser than 20,000 Sq.m (Non EC Category).
- Additional 3 floor construction was started on 2016 which leads to increase in builtup area more than 20,000 Sq.m. It causes the project fall under violation case.
- Additional 3 floors construction was completed on 2016 without Prior EC.
- EC application under violation was submitted on 29.08.2018.
- Violation ToR was issued by TNSEIAA on 21.03.2019
- EIA report was uploaded on 21.09.2021.
- Violation Period- 2016 to 2022
- Project Cost (for additional 3 floors) – INR 11.5 Crores

3.0 VIOLATION CATEGORY:

"Ganga Hospital" has extended their Hospital Facility at T.S. 11/3/18 Mettupalayam Road, Sanganur Village, Coimbatore district, Tamil Nadu. The Hospital has 6 floors with a total built-up area of 26,069.15 Sq.m in a plot area of 1.424 ha (3.52 acres). Out of 6 floors, consent was obtained for only Basement, Ground, 1st, 2nd & 3rd floor. Additional three floors (4th, 5th, 6th floor + Terrace) was constructed without obtaining prior Environmental Clearance under EIA


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Notification 2006 from SEIAA, Tamil Nadu. Built-up area (As per the Consent) - 15,541.30 Sq.m.

Additional built-up area (Without Consent) - 10,527.85 Sq.m. The EC has been sought for total built up area of 26,069.15 Sq.m.

The proponent made an EC application under violation and was submitted on 29.08.2018. Based on the application, SEIAA – TN issued Violation ToR on 21.03.2019 (Vide Ref letter SEIAA – TN / F.No. 6555 / SEAC / Violation / ToR – 613 / 2019). The proponent conducted Environmental Impact Assessment study as per the guidelines of ToR issued and submitted to SEIAA on 21.09.2021. The same EIA report is also upload in the PARIVESH Portal on 21.09.2021. The period of violation of the proponent is from 2016 to 2022.

The proponent was called for deliberation in 344th SEAC meeting held on 06.01.2023. Based on the presentation made by the Proponent, the SEAC committee recommended for Site Visit by a Sub Committee. Accordingly subcommittee has been constituted by the Chairman, SEAC which include Dr. B.Gowtham, Member, SEAC – TN (vide SEAC –TN/6555/Site Inspection/2022, dt.27.01.2023). Dr. B.Gowtham, Member, SEAC – TN visited the Ganga Medical Centre and Hospitals Private Limited at Mettupalayam Road, Sanganur Village, Coimbatore District on 06.02.2023 to understand the status of the construction made under violation category. The observations made by the Subcommittee are listed below:

- The Hospital has 6 floors with a total built-up area of 26,069.15 Sq.m in a plot area of 1.424 ha (3.52 acres).
- Out of 6 floors, consent was obtained for only Basement, Ground, 1st, 2nd & 3rd floor.
- Additional three floors (4th, 5th, 6th floor + Terrace) was constructed without obtaining prior Environmental Clearance under EIA Notification 2006 from SEIAA, Tamil Nadu.
- The Consent for the Existing Three floors (Basement, Ground, 1st, 2nd & 3rd floor) was valid up to March 31,2020.


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- The Sewage water generation for Consent constructions (i.e. 1st,2nd & 3rd floors) is 37 KLD, for which 40 KLD capacity of STP is installed. As per the unconsent constructions (i.e. 4th, 5th & 6th floors) the generation of sewage water is 257.3 KLD. Now total STP setup of handling 320 KLD has been installed.

S. No	Existing (Consented)		After Expansion (Non-consent)		Remarks
	Generation	Installed Capacity	Generation	Installed Capacity	
1.	37 KLD	40 KLD	257.3 KLD	320 KLD	

- Effluent Treatment plant installed is of 25 KLD for the handling of 25 KLD effluent generations for the construction phase of non-consent floors.

S. No	Existing (Consented)		After Expansion (Non-consent)		Remarks
	Generation	Installed Capacity	Generation	Installed Capacity	
1.	2.20 KLD	2.20 KLD	25 KLD	25 KLD	Neutralized and treated with Hypochloride and combined STP

- The total treated waste water of 282.3KLD including consent and unconsent constructions are being utilized for flushing (89 .0 KLD; AC chiller make -up 164 KLD; dust suppression and fire protection 25 .0 KLD and Greenbelt 4.3 KLD).

Sr.No	Utilization	Existing (Consented) (KLD)	After Expansion (Non-consent) (KLD)
1	Flushing	17.70	89
2	AC Chiller Make-up	-	164


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3	Dust suppression and fire protection	15	25
4	Green belt	4.30	4.30
	Total	37	282.30

- Solid waste management including bio degradable and non-bio degradable is estimated as 0.648 TPD and 0.432 TPD respectively for the unconsent constructions has been installed within the hospital campus. Bio degradable waste (Organic waste) generated are disposed to Coimbatore corporation Solid Waste Management wing (Commitment letter enclosed). Non-bio degradable wastes are recycled through authorized recyclers to whom the hospital management has made agreement with the said recyclers (Letter Enclosed).

Sr.No	Utilization	Existing (Consented) (TPD)	After Expansion (Non-consent) (TPD)	Remarks
1	Bio Degradable	0.03	0.648	Organic waste sent to Coimbatore solid waste management corporation
2	Non-Biodegradable	0.02	0.432	Recycling through authorized recyclers

- Rain water harvesting in the campus include 54 percolations pits within the hospital area through the rainwater is collected and utilized for gardening and no consuming purposes. These 54 percolations ponds have been installed during the consent buildings and remain the same to constructions including unconsent floors constructed. All these percolations pits within the campus are well maintained periodically and collection of rainwater is done systematically.


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Sr.No	Items	Existing (Consented) (TPD)	After Expansion (Non-consent) (TPD)	Remarks
1	Rainwater percolation pits	54	54	Percolation pits will be constructed along the hospital site periphery for rainwater recharge

- The power requirement for the entire construction is 700 KVA and is received from TANGEDCO (commitment letter enclosed). The DG sets installed are of capacity 500 KVA and 750 KVA respectively which will be run only through low sulphur diesel. Fuel required is 320 L/hr and 240 L/hr will be used only during power failure, Lighting, Lifts, STP and operation theatres.
- Operation Theatre

Sr.No	Items	Existing (Consented) (TPD)	After Expansion (Non-consent) (TPD)
1	Operation Theatres emergency and regular surgery	6	10

- Total number of inpatient and out patients is estimated as 140 and 200 respectively for consent buildings, whereas the estimation of inpatients and outpatients for total constructions (both consent and unconsent constructions) is 450 and 300 respectively.

Sr.No	Items	Existing (Consented)	After Expansion (Non-consent)	Remarks
1	Inpatients	140	450	-
2	Out patients	200	300	-


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- Total number of beds as of now is 450 which caters all the six floors (consent and unconsent constructions).

Sr.No	Items	Existing (Consented)	After Expansion (Non-consent)	Remarks
1	patients	140	450	-

- The EMP budget and details during the Operational Phase is Rs. 83.50 lakhs towards capital cost and Rs. 16.0 Lakhs per annum towards recurring cost. The details of EMP budget is given below:

Sr.No	Description	Capital Cost (Lakhs)	Recurring Cost (Lakhs/Annum)	Remarks
1	Site Sanitation Facilities, STP & others	50.0	5.0	
2	RWH	5.0	1.0	
3	Greenbelt	10.0	2.0	
4	Solid waste management	5.0	1.0	
5	Environmental Monitoring	--	7.0	
	Total	83.50	16.0	

- Corporate Environmental Responsibility (CER) budget as the presentation made by the proponent CER is 11.5 Lakhs. The CER funds committed will be utilized for Government Higher Secondary School, Kavundampalayam for activities like For Existing toilet repairing with running water facilities, Purchase and installation of incinerator, Tree plantation in the school (1000 Trees), Purchase of environmental related books for library and others on the request of head master.
- In addition, the proponent also agreed to spend Rs. 7.00 Lakhs for repairing existing toilets in Government Arts College, Coimbatore and


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establishment of Smart classroom for the newly started Geology Department.

4.0 ECOLOGICAL DAMAGE ASSESSMENT:

The level of ecological damages are categorized as

- (i) **Low Level Ecological Damage:** If only procedural violations carried out (Started construction at the site without obtaining EC).
- (ii) **Medium Level Ecological Damage:** Procedural violations carried out (Started construction at the site without obtaining EC). Infrastructural violations such as deviation from CMDA / local body approval. Non operation of the project.
- (iii) **High Level Ecological Damage:** Procedural violations carried out (Started construction at the site without obtaining EC). Infrastructural violations such as deviation from CMDA / local body approval. If the construction part is under operation (Utilized).


As mentioned above, the proponent during the period 2016 – 2022, has committed violation by construction of additional floors (4th, 5th & 6th Floor) without valid EC. Hence, this is considered as **HIGH-LEVEL ECOLOGICAL DAMAGE** due to the following reason:

- i. Construction started without appropriate EC and consent orders from TNPCB. .
- ii. Solid waste, biomedical waste, hazardous waste and effluent not satisfactory as per the EC requirement.
- iii. Additional 300 beds were put in use without compliance of EC conditions.

The fund allocation for ecological remediation, natural resource augmentation and community resource augmentation and penalty will be based on below mentioned criteria.

Level of Damages	Ecological remediation cost	Natural resource augmentation cost	Community resource augmentation cost	Penalty	Total


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Low level Ecological Damage	0.25 %	0.10 %	0.15 %	0.25 %	0.75 % of project Cost
Medium level Ecological Damage	0.35 %	0.15 %	0.25 %	0.50 %	1.25 % of project Cost
High level Ecological Damage	0.50 %	0.20 %	0.30 %	1.00 %	2.00 % of project Cost

The cost estimated for the high level ecological damages committed by the Proponent is calculated as:

Level of Damages	% of the project cost	Cost (Rs in Lakhs)
Ecological remediation cost	0.50 %	5.75
Natural resource augmentation cost	0.20 %	2.30
Community resource augmentation cost	0.30 %	3.45
Penalty	1.00 %	11.50
Total	2.00 %	23.00 Lakhs

(Rupees Twenty Three lakhs only)

- Need based Damage assessment report has been prepared by the M/s. Ganga Health Centre & Hospitals Private Limited, Coimbatore and the committed cost is Rs. 31.00 lakhs. The details of need-based damage assessment is given below: Summary of Budget Allocation proposed for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan based on EIA Model.

S.No	Activity	Cost (Rs in Lakhs)


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1	To enhance the water table around the Coimbatore corporation area, the proponent will 5 rain water harvesting structures at the cost of Rs. 0.20 Lakhs per structure (Rs.0.20 Lakhs x 5 Structures)	1.00
2	The proponent has committed to beautify, maintain and protect the Kumarasamy Lake and Selvampathy Lake at the rate of Rs. 5.00 Lakhs per lake (Rs. 5.00 Lakh x 2 Lakes)	10.00
3	The proponent agreed to support the local Government and educational institutions to install solar power setup in streets and schools nearby which reduce the consumption of electricity	3.00
4	Installation of Smart class room for Government Higher Secondary School, Kavndampalayam, Coimbatore has been committed by the Proponent	3.00
5	Health Care: Hope after Fire: This scheme provides treatment for poor people affected by burns who are not able to afford treatment. Mobile Mammogram Clinic: Under this scheme, the hospital reach interior villages to create awareness breast cancer and treat the needy one. With the consultation of the doctor the hospital take free mammogram and treat the poor people. Clift Lip and Palate free surgery Project	14.00
TOTAL		31.00 Lakhs

- Hence, the proponent is committed to pay through the following heads in total:

S.No	Description	Calculation	Amount in Lakhs
1	Need Based Damage Assessment for remediation plan for Natural Resource	Need based requirement of local community /	31.00


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	Augmentation as per EIA submitted.	TNSEAC recommendation	
2	Penalty for the violation as per SEIAA guideline	2.0 % of the project cost	23.00
3	Amount to be spent on welfare activities under CER (1 % + additional charges)	CER committed in SEAC deliberation 11.50 Lakhs + 7.00 Lakhs during the site visit	18.50
	GRAND TOTAL		72.50 Lakhs

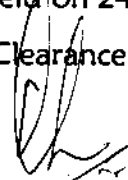
RECOMMENDATIONS

- The proponent has violated by constructing additional three floors (4th, 5th & 6th Floors) without valid EC (unconsent construction).
- High level ecological damages has been forced on the activity of the Proponent and penalty has been calculated as Rs. 23.00 Lakhs.
- The proponent also agreed to pay the Budget allocation proposed for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan based on EIA Model which is Rs. 31.00 Lakhs.
- The proponent committed to spend Rs. 18.50 Lakhs towards the CER activity for near government higher secondary school and Government Arts College, Coimbatore.
- The green belt coverage within the area is not adequate and the proponent agreed to find places in the corporation areas like school grounds, around water bodies to plant around 1000 additional trees which will not account in CER activity plantations.
- In Concluding views, the sub-committee member suggests the honorable committee to issue Environmental Clearance requested by the proponent.

Submitted to the committee for further action.

The site inspection report was placed in the 365th meeting of SEAC held on 24.3.2023. The SEAC observed that the proposal seeking Environmental Clearance for the


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expansion and construction of Hospital Facilities, Ganga Hospital at T.S. No. 11/3/1B part, Mettupalayam Road, Sangnur Village, Coimbatore District, Tamil Nadu under violation category comes under the "high level ecological damage category". The Committee decided to recommend the proposal to SEIAA for grant of EC subject to the following conditions in addition to the normal conditions stipulated by MOEF&CC:

1. As per the MoEF&CC Notification, S.O.1030 (E) dated:08.03.2018, "The project proponent shall submit a bank guarantee equivalent to the amount of remediation plan and Natural and Community Resource Augmentation Plan with the State Pollution Control Board and the quantification will be recommended by the Expert Appraisal Committee for category A projects or by the State or Union territory level Expert Appraisal Committee for category B projects, as the case may be. and finalized by the concerned Regulatory Authority, and the bank guarantee shall be deposited.
2. Accordingly, the amount prescribed for Ecological remediation, natural resource augmentation & community resource augmentation is Rs. 31.00 Lakh. Hence the SEAC decided to direct the project proponent to remit the amount of Rs.31 Lakh in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the ecological damage remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The amount committed by the Project proponent for CER (Rs.18.5 Lakh) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.


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5. The project proponent shall submit the proof of action taken by the State Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
6. 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 furnish the detailed EMP mentioning all the activities of proposed CER for entire project other than the CER amount of 18.5 Lakh to be remitted before the issue of Environmental clearance.
7. The Project proponent shall operate the STP effectively and continuously so as to achieve standards prescribed by the TNPCB for treated sewage.
8. The Project proponent shall utilize the treated sewage for the development of green belt and toilet flushing after achieving the standards prescribed by the TNPCB.
9. The project proponent shall furnish revised latest AAQ data & meteorological data pertaining to the proposed project site before obtaining the CTO.
10. The project Proponent shall provide OWC for disposal of bio degradable solid waste. The project Proponent shall operate the same efficiently and continuously for the disposal of the Organic waste generated from the campus. The non-bio degradable waste shall be regularly collected and disposed through TNPCB authorized recycler.
11. The Project proponent shall collect & dispose the hazardous waste through TNPCB Authorized vendors/recyclers as per the Hazardous and other wastes (Movement and Transboundary Movement), Rules 2016, as amended.
12. The Project proponent shall collect and dispose the E-Waste through TNPCB Authorized vendors/recycler as per the E-Waste Management Rules 2016, as amended.
13. Necessary permission shall be obtained from the competent authority for the draw/outsourcing of fresh water before obtaining consent from TNPCB.


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14. All the mitigation measures committed by the project proponent for the flood management, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
15. Tapping of solar energy should be at least 10% of total energy consumption Solar energy usage mainly for the illumination of common areas, street lighting etc.,
16. The project proponent shall provide separate standby D.G set for the STP proposed for the continuous operation of the STP in case of power failure.
17. Waste of any type not to be disposed of in any water bodies including drains, canals and the surrounding environment.
18. The project proponent shall submit the proof for the action taken by the State Government/TNPCB against project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
19. The proponent shall furnish the detail about the built-up area for all the buildings with floor wise to TNPCB every year along with the compliance report for the Environmental Clearance.
20. Any violations and subsequent suitable action may be decided by SEIAA, as deemed appropriate, if arise.
21. The project proponent shall maintain minimum 15% green belt as committed.
22. As agreed, the proponent shall find places in the corporation areas like school grounds, around water bodies to plant around 1000 additional trees which will not account in CER activity plantations.
23. Project proponent shall ensure that DG sets are run on minimum of 50% green energy sources instead of Diesel.
24. The height of the stacks of DG sets shall be provided as per the CPCB norms.
25. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCB before obtaining CTO.
26. The proponent shall make proper arrangements for the utilization of the treated water from the hospital for toilet flushing, green belt development, dust


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- suppression, fire protection and no treated water shall be let out of the premise.
27. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
 28. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix, in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
 29. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted with proper spacing as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
 30. The unit shall ensure the compliance of land use classification fit for construction.
 31. The project proponent shall provide entry and exit points for the OSR area as per the norms for the public usage and as committed.
 32. The Project proponent shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
 33. The Proponent shall provide rain water harvesting sump of adequate capacity


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for collecting the runoff from rooftops, paved and unpaved roads as committed.

34. The Project Proponent shall comply with the provisions given under the Bio Medical Waste Management Rules, 2016, as amended at all times.
35. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
36. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
37. No waste of any type to be disposed of in any other way other than the approved one.
38. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
39. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
40. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
41. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
42. Solar energy should be at least 25% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
43. 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.

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

Subsequently the subject was placed in the 612th meeting of Authority held on 17.04.2023 & 18.04.2023. The Authority noted that,

1. The subject was placed in the 365th meeting of SEAC held on 23.03.2023. The SEAC observed that the proposal seeking Environmental Clearance for the expansion and construction of Hospital Facilities, Ganga Hospital at T.S. No. 11/3/1B part, Mettupalayam Road, Sangnur Village, Coimbatore District, Tamil Nadu under violation category comes under the "high level ecological damage category". The Committee decided to recommend the proposal to SEIAA for grant of EC subject to inter alia the following conditions in addition to the normal conditions stipulated by MOEF&CC:

- a. As per the MoEF&CC Notification, S.O.1030 (E) dated:08.03.2018, "The project proponent shall submit a bank guarantee equivalent to the amount of remediation plan and Natural and Community Resource Augmentation Plan with the State Pollution Control Board and the quantification will be recommended by the Expert Appraisal Committee for category A projects or by the State or Union territory level Expert Appraisal Committee for category B projects, as the case may be. and finalized by the concerned Regulatory Authority, and the bank guarantee shall be deposited.
- b. Accordingly, the amount prescribed for Ecological remediation, natural resource augmentation & community resource augmentation is Rs. 31.00 Lakh. Hence the SEAC decided to direct the project proponent to remit the amount of Rs.31 Lakh in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to


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SEIAA-TN. The funds shall be utilized for the ecological damage remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.

- c. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
- d. The amount committed by the Project proponent for CER (Rs.18.5 Lakh) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.

The Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent requesting to furnish the additional details/documents sought by SEAC and place the proposal in the ensuing Authority meeting after receipt of the details.

The PP furnished the details called for and hence the subject was placed before the Authority in its 657th meeting held on 25.09.2023. The Authority noted that,

1. The PP has submitted the bank guarantee of Rs. 31.00 Lakh prescribed for Ecological remediation, natural resource augmentation & community resource augmentation to Tamil Nadu Pollution Control Board and obtained acknowledgement for the same.
2. The amount committed by the Project proponent for CER (Rs.18.5 Lakh) has been handed over to the beneficiaries for the activities committed by the proponent and copy of receipts obtained from the beneficiaries have been furnished to SEIAA-TN.
3. The project proponent has submitted proof of credible action taken by the TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.


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During the meeting, the Authority noted that sub-committee constituted by SEAC has recommended for imposing penalty for violation of Rs. 23 Lakh in the site inspection report. Hence the Authority decided to refer back the proposal to SEAC to state,

a. The area of violation.

b. The agency to whom the penalty for violation to be placed/paid.

Hence the subject was placed in this 419th meeting of SEAC held on 01.11.2023. The SEAC noted that the PP was absent for the meeting and hence decided to defer the subject to a later date.

Agenda No: 419 - 08


File No: 9131/2022

Proposed modernization of Natural gas-based power plant at Plot No.17/2B, 2C & 2D, Naranamangalam, Narimanam Post, Nagore, Nagapattinam District, Tamil Nadu by M/s. MMS Steel & Power Private Limited - For Terms of Reference (SIA/TN/THE/72439/2022, dated 22.02.2022).

The proposal was earlier placed in the 276th meeting of SEAC held on 21.5.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). Project proponent gave a detailed presentation.

The SEAC noted the following:

1. The Proponent, M/s. MMS Steel & Power Private Limited has applied seeking Terms of Reference for the proposed modernization of natural gas-based power plant at Plot No.17/2B, 2C & 2D, Naranamangalam, Narimanam Post, Nagore, Nagapattinam District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of item 1(d) "Thermal Power Plants" of the Schedule to the EIA Notification, 2006 as amended.
3. The Thermal power plant has obtained CTO dated 07.01.2004 from TNPCB for generation of 6.96 MW (2x3.48 MW) using Natural Gas as fuel.
4. Subsequently obtained CTO (expansion) dated 21.12.2004 from TNPCB for generation of additional 4 MW (2x2 MW). The Thermal power plant further & 1x8.73 MW from Natural Gas Based Engine - 2x3.48 MW/ 2x2 MW & 3x3.5MW.


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5. As the PP has executed the project without obtaining EC and has also not applied during the window period, this has to be treated as violation case under SoP notified by the MoEF & CC outside the window period.

Based on the presentation and documents/clarifications furnished by the project proponent, SEAC noted that, the MoEF&CC has issued office memorandum Dated 28th January, 2022 regarding Observation of Hon'ble Supreme Court with reference to the SoP dated 7th July 2021 for identification and handling of violation cases under EIA Notification 2006 and stated that "93. *The interim order passed by the Madras High Court appears to be misconceived. However, this Court is not hearing an appeal from that interim order. The interim stay passed by the Madras High Court can have no application to operation of the Standard Operating Procedure to projects in territories beyond the territorial jurisdiction of Madras High Court. Moreover, final decision may have been taken in accordance with the Orders/ Rules prevailing prior to 7th July, 2021.*"

The Committee, therefore, decided to keep the examination of the proposal in abeyance until final orders are received from Madurai Bench of the High Court of Madras in the matter W.P.(MD) No. 11757 of 2021 in Fatima Vs Union of India. Now the PP vide letter dated 21.09.2023 has requested for grant of EC for the project. Hence the subject was taken up for discussion in this 419th meeting of SEAC held on 02.11.2023. The PP requested additional time to submit the requisite supporting documents. Hence the SEAC decided to defer the subject to a later date.

Agenda No: 419 - 09

(File No: 10133/2023)

Existing Rough stone and Gravel lease over an extent of 0.89.0 Ha at S.F.No.637/2B(Part) in Manjanaickenpatti Village, Kadavur Taluk, Karur District, Tamil Nadu by Thiru. R. Azhagar - Environment Clearance for next scheme of mining. (SIA/TN/MIN/433166/2023 dt 14.06.2023)

The proposal was earlier placed in the 402nd meeting of SEAC held on 17.08.2023. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal


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(parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru.R.Azhagar has applied seeking Environment Clearance for the existing Rough stone and Gravel lease for next scheme of mining over an extent of 0.89.0 Ha at S.F.No.637/2B(Part) in Manjanaickenpatti village, Kadavur 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, as amended.
3. DEIAA EC. Lr. No. DEIAA-DIA/TN/MIN/15332/2018-KKR/EC.No.107/2018/Mines dated 14.06.2018
4. CCR obtained from IRO(SZ), MoEF&CC vide Lr. No.EP/12.1/2023-24/SEIAA/51/TN/881 dated 21.07.2023
5. AD/Mines has reported presence of existing pit with dimensions of 81m (L) x 72m (W) x 10m (D) at the project site.
6. Manual method of mining has been approved in the mining plan.
7. DFO, Karur vide letter dated 30.09.2023 has reported that Kadavur Slender Loris Wild Life Sanctuary is located at a distance of 12.8 km from the mine lease area.

Based on the presentation and documents furnished by the project proponent, SEAC directed the Project Proponent to furnish the following additional details/documents:

1. 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 indicating the ownership of the building, nature of construction, age of the building, number of residents, their profession and income, etc. On receipt of the aforesaid details/documents, the Committee will further deliberate and decide on future course of action.
2. The PP shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.


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3. The PP shall submit the letter obtained from the concerned AD (Mines) showing details on the date of lease executed, date of last working day, date of last transport permit issued, Mining Plan approved quantity, EC Approved Quantity and Achieved quantity (year wise).
4. Details of action taken on the non-compliances reported in the CCR Lr. No.EP/12.1/2023-24/SEIAA/51/TN/881 dated 21.07.2023.
5. Registered lease deed pertaining to the mine lease area shall be furnished.

On receipt of the details sought, the Committee will deliberate further and decide on future course of action. The PP furnished the details sought vide letter dated 05.10.2023 and hence the subject was taken up for discussion in this 419th meeting of SEAC held on 02.11.2023. The SEAC noted that the AD/Mines vide letter dated 15.09.2023 has furnished the EC approved and the actual mined out quantity of mineral, date of last transport permit issued among other things.

File No		10133 SIA/TN/MIN/433166/20 23 dt 14.06.2023	Category	B2
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	R.Azhagar, S/o. Rengasamy, D.No.1/135, Veeriyapatti, Manjanaickenpatti village, Kadavur Taluk, Karur District-621301.	
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	:	637/2B(Part)	
4.	Village in which situated	:	Manjanaickenpatti	
5.	Taluk in which situated	:	Kadavur	
6.	District in which situated	:	Karur	
7.	Extent of quarry (in ha.)	:	0.89.0 Ha	


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8.	Latitude & Longitude of all corners of the quarry site	:	10°46'59.16"N to 10°47'2.71"N 78°10'12.21"E to 78°10'15.12"E
9.	Topo Sheet No.	:	58J/01
10.	Type of mining	:	Opencast Manual method of mining
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone - 204201 m ³ Gravel - 924 m ³
	Minable Resources in m ³ (RoM)	:	Rough Stone - 41875 m ³ Gravel - 105 m ³
	Annual Peak Production in m ³	:	Rough Stone - 13775 m ³ Gravel - 105 m ³
	Maximum Depth in meters	:	33m BGL
13.	Depth of water table	:	55-60 m
14.	Man Power requirement per day:	:	13 Nos.
15.	Water requirement:	:	3.75 kLD
	1. Drinking & domestic purposes (in kLD)	:	0.75 kLD
	2. Dust suppression, Green Belt & Wet Drilling (in kLD)	:	1.0 kLD 1.0 kLD
16.	Power requirement	:	TNEB & DG set
17.	Precise area communication approved by Dept. of Geology & Mining	:	Rc.No.39/Mines/2023 Dated:03.05.2023.
18.	Mining Plan approved by Dept. of Geology & Mining	:	Rc.No.39/Mines/2023 Dated:25.05.2023.


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19.	500m Cluster Letter issued by Dept. of Geology & Mining	:	Rc.No.39/Mines/2023 Dated:08.06.2023.		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated 05.06.2023.		
21.	Project Cost (excluding EMP cost)	:	Rs.23,12,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total RoM in m ³	13775	105
			Annual Max RoM in m ³	2825	-
		:	Max Depth in m	33m BGL	
23.	Total EMP cost (in Rs. Lakh).	:	Rs.24.99 Lakh		
24.	CER cost (in Rs. Lakh).	:	5.0 Lakh 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 RoM production capacity not exceeding 2825 m³ of Rough stone by maintaining the ultimate depth of mining of 33m 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. The proponent shall provide the particulars for carrying out the plantation of 500 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.


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3. The PP shall not carry out the blasting operations as it was indicated as manual mining operation during the appraisal.
4. PP shall plan and allocate fund to ensure the occupational health & safety of all contract and casual workers. Details of exposure specific health status evaluation of workers shall be maintained.
5. For securing the health & safety of persons employed in the mine, the PP shall carry out the Periodical Medical Examination (PME) for the persons employed in the mine as per the Mines Rules 1955.
6. The PP shall construct the welfare amenities such as Rest shelter, Toilets, etc as per the design stipulated vide DGMS Circular No. 25/1972 under the Rule 62 of Mines Rules 1955, for the persons employed in the quarry before obtaining the CTO from the TNPCB.
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 following activities at Panchayat Union Middle School, Veeraiyapatti Village before obtaining CTO from TNPCB.

Description	CER Cost INR
Painting for Budlings	1,00,000/-
Plantation in free space inside school premises	30,000/-
Environmental Related Books	20,000/-
Toilet Construction & Maintenance	2,50,000/-
Stationary items for students	1,00,000/-
Total	Rs. 5,00,000/-


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Agenda No: 419-10

(File No: 10073/2023)

Proposed Lateritic soil lease over an extent of 1.58.0Ha at S.F.No.31/3,32/1 & 33/2, in Kondalangkuppam Village, Vanur Taluk, Vilupuram District, Tamil Nadu by Thiru. M. Rajesh, - For Environment Clearance. (SIA/TN/MIN/431227/2023 dt 28.05.2023)

The proposal was earlier placed in the 392nd meeting of SEAC held on 14.07.2023. The Project Proponent made a detailed power point presentation about the proposed project. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru.M.Rajesh has applied seeking Environment Clearance for the proposed Lateritic soil lease over an extent of 1.58.0 Ha at S.F.No.31/3,32/1, & 33/2 in Kondalangkuppam Village, Vanur Taluk, Vilupuram 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. The mine lease area is non-contiguous.

Based on the presentation and documents furnished by the project proponent, SEAC decided to seek the following additional details/documents from the PP:

- a. The Modified Mining Plan duly approved by the Competent Authority for the quantity demarcated in the restricted mine lease area of extent covering 1.22.0 Ha in the S.F. No. 31/3, 32/1.
- b. The Soil composition report obtained from anyone of these approved Laboratories in the prescribed format shall be furnished in accordance with the directions issued by the Director of Geology and Mining Lr. No. 7240/MM6/2019, dated. 30.07.2021.

Sl. No	Name of the Laboratory
1.	Department of Civil Engineering, Division of Soil mechanics and foundation Engineering, Anna University, Guindy, Chennai -25.
2.	Department of Civil Engineering, National Institute of Technology,


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	Trichy-620015.
3.	Govt College of Engineering, Karuppur, Salem – 636011.

On receipt of the details sought above, the SEAC will further deliberate and decide on future course of action.

The PP furnished the details sought vide letter dated 05.10.2023 and hence the subject was placed in this 419th meeting of the SEAC held on 01.11.2023.

File No	10073	Category	B2
	SIA/TN/MIN/431227/2023 dt 28.05.2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.M.Rajesh S/o. Murugan, No.158, V.Nerkunam Village, Vikravandi Taluk, Viluppuram District-605501
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Lateritic soil
3.	S.F Nos. of the quarry site with area break-up	:	S.F.No.31/3,32/1.
4.	Village in which situated	:	Kondalangkuppam
5.	Taluk in which situated	:	Vanur Taluk
6.	District in which situated	:	Viluppuram
7.	Extent of quarry (in ha.)	:	1.22.0 Ha (Restricted area)
8.	Latitude & Longitude of all corners of the quarry site	:	12°2'12.94"N to 12°2'24.05"N 79°40'32.17"E to 79°40'37.04"E
9.	Topo Sheet No.	:	57-P/12
10.	Type of mining	:	Opencast semi mechanized method of mining.
11.	Life of Project	:	2 years
	Lease Period	:	2 years

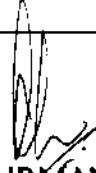

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	Mining Plan Period	:	2 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources in m ³ (RoM)	:	Lateritic soil- 31546m ³	-
	Minable Resources in m ³ (RoM)	:	Lateritic soil- 17398 m ³	Lateritic soil- 7956 m ³
	Annual Peak Production in m ³	:	Lateritic soil - 8600 m ³	Lateritic soil - 4680 m ³
	Maximum Depth in meters	:	2m BGL	-
13.	Depth of water table	:	20m-25m BGL	
14.	Man Power requirement per day:	:	6 Nos.	
15.	Water requirement:	:	2.0 kLD	
	1. Drinking & Unutilized water (in kLD)	:	1.0 kLD	
	2. Dust suppression ,	:	0.5 kLD	
	3. Green Belt	:	0.5 kLD	
16.	Power requirement	:	TNEB 4624 litres of HSD will be utilized	
17.	Precise area communication approved by the Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	:	Rc.No.A/G&M/351/2020	
		:	Dated:17.05.2023	
18.	Mining Plan approved by Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	:	Rc.No.A/G&M/351/2020	
		:	Dated:24.05.2023.	
19.	Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining 500m Cluster Letter	:	Rc.No.A/G&M/351/2020 Dated:24.05.2023	


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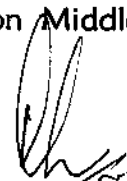
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated: 26.05.2023
21.	Project Cost (excluding EMP cost)	:	Rs. 16,26,500/-
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
		:	Max Total RoM in m ³
			7956 m ³
		:	Annual Max RoM in m ³
			4680 m ³
		:	Max Depth in m
			2m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.2.76 Lakh Recurring cost/Annum – Rs. 1.04 Lakh+ 5% inflation cost
24.	CER cost (in Rs. Lakh).	:	Rs. 2 Lakh 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 4680 m³ of Lateritic soil by maintaining the ultimate depth of mining of 2m BGL and for a period of two years only 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 PP shall not carry out the drilling and blasting activities in the quarry.
2. The proponent shall carryout plantation of 750 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
3. The PP shall install a Bio-toilet for the persons employed in the quarry before obtaining the CTO from the TNPCB.
4. As accepted by the Project Proponent the CER cost is Rs. 2.0 lakh and the amount shall be spent for the following activities at Panchayat Union Middle School, Kondalanguppam Village before obtaining CTO from TNPCB.


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Description	CER Cost INR
Plantation in School premises	10,000/-
Water Facility (Borewell, 1HP motor, 1000lts water tank, RO purifier, EB wiring and plumbing.	1,90,000/-
Total	Rs. 2,00,000/-


Agenda No: 419-11

(File No.9949/2023)

Proposed Rough Stone quarry lease over an extent of 1.64.0 Ha at S.F.Nos. 1254/7, 1276/1, 1276/2A, 1276/2B, 1276/3A, 1276/3B & 1277/2 of Katchaikatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu by Thiru. N. Viswanathan – For Environmental Clearance. (SIA/TN/MIN/420414/2023 dated 29.03.2023)

The proposal was placed in the 419th meeting of SEAC held on 01.11.2023. 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. Viswanathan has applied for Environmental Clearance for the Proposed Rough Stone quarry lease over an extent of 1.64.0 Ha at S.F.Nos. 1254/7, 1276/1, 1276/2A, 1276/2B, 1276/3A, 1276/3B & 1277/2 of Katchaikatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu.
2. Earlier, the proposal was appraised in the 387th SEAC meeting held on 28.06.2023. Based on the presentation, documents & KML details furnished by the project proponent, the Committee observed that the quarry of K.Ramesh (SEIAA Proposal number.8461) lies within a distance of 400m from the current proposed quarry. Further, in the 500m cluster letter dated.08.02.2021 issued by Joint Director/Assistant Director (i/c), Dept.of G&M in the case of K.Ramesh (SEIAA Proposal No.8461), it was mentioned that there were 2 existing quarries and 2 proposed quarries are located within the vicinity of the lease under appraisal. Besides, the area of the total cluster covering the above quarries exceeds 5Ha.


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However the Assistant Director, Dept. of G&M has not furnished the details of any existing or proposed quarries located within a radius of 500m radius from the quarry of Thiru.N.Vishwanathan (current proposal) in his cluster letter dated.21.01.2023.

Hence, the Committee decided that SEIAA may obtain clarification from AD Mines in this regard and hence decided to defer this proposal in this meeting.

3. Accordingly, MS-SEIAA addressed a letter dated. 21.08.2023 to the Assistant Director of Geology & Mining Department, Madurai District seeking clarification as indicated in the 387th SEAC meeting minutes.
4. Meanwhile, the proponent has submitted a request to withdraw the proposal.
5. The withdrawal request of the proponent was placed in the 654th SEIAA meeting held on 13.09.2023. The authority decided to forward the request of proponent to SEAC for seeking remarks.
6. In view of the above, the proposal is again placed in this 419th SEAC meeting held on 01.11.2023.

During the meeting, the proponent admitted that the applied area falls under 'B1' category since it is covered under cluster and hence stated that he would like to withdraw the current proposal submitted under 'B2' category. Further, he stated that he has already submitted a ToR application under 'B1' category (F.No.10306) for the same area and requested to process the ToR application.


The Committee, after detailed deliberations decided that the SEIAA may accept the withdrawal request of the proponent, after which the file submitted by the proponent under 'B1' category can be processed.

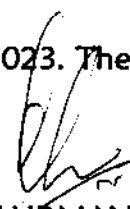
Agenda No: 419-12

(File No.9963/2023)

Existing Black Granite quarry lease over an extent of 1.80.0 Ha at S.F.No. 12/2 of Perumbakkam Village, Vanur Taluk, Villupuram District, Tamil Nadu by M/s. Satheesh Mines & Industries – For Environmental Clearance. (SIA/TN/MIN/422976/2023 dt.22.03.2023)

The proposal was placed in the 419th meeting of SEAC held on 01.11.2023. The details


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of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, M/s. Satheesh Mines & Industries has applied for Environmental Clearance for the Existing black granite quarry lease over an extent of 1.80.0 Ha at S.F.No. 12/2 of Perumbakkam Village, Vanur Taluk, Villupuram District, Tamilnadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the project proponent vide Lr.No.SEIAA-TN/F.No.2725/EC/1(a)/2472/2014 dated 15.09.2015 for a quantity of 540m³ of black granite granite up to a depth of 7m with a maximum validity of 5 years.
4. Now, the proponent has submitted an application seeking Environmental Clearance for the scheme of mining (2021-2026) for the production of 6089m³ of black granite. The lease is valid till 09.06.2036.
5. Earlier, the proposal was placed for appraisal in the 384th SEAC meeting held on 16.06.2023.

Based on the presentation and details furnished by the project proponent, it has been observed that the PP has filed the application on 22.03.2023 for the extension of the validity of the prior environmental clearance granted was terminated on 14.09.2021 including the Covid extension which is outside the validity period of subsisting prior EC and also the Scheme of Mining for the period of 2021-22 to 2025-26 was approved only on 20.02.2023 by the competent authority. Hence, the SEAC observed that the aforesaid application cannot be considered for the extension of the validity of EC vide MoEF & CC OM No. J-11011/15/2012-IA II (M), dated. 20.03.2015, and for the auto-extension of validity of EC granted earlier vide S.O. 1807(E), dated. 12.04.2022 which states that

".....on receipt of such application in the laid down proforma from the Project Proponent within the maximum validity period of Environmental Clearance of thirty years, and subsequently on receipt of such application in the laid down


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proforma from the Project Proponent within the validity period of the extended Environment Clearance..."

Hence, the SEAC decided to treat this application as fresh proposal. Further, the Committee decided to call for the following details from the project proponent to consider the proposal for appraisal:


- i) The project proponent shall submit a certified compliance report obtained from IRO of MoEF&CC for the EC obtained earlier dated.15.09.2015.
6. The proponent vide letter dated.13.09.2023 submitted a Certified Compliance Report EP/12.1/2023-24/SEIAA/76/TN/1052 dated.06.09.2023 from IRO, Chennai of MoEF&CC for the EC obtained earlier.
7. In view of the above, the proposal is again placed in this 419th SEAC meeting held on 01.11.2023.

Based on the presentation and documents furnished by the project proponent, the Committee noted that:

- i) Earlier EC dated.15.09.2015 was accorded for mining up to a maximum depth of 7m.
- ii) In the CCR dated.06.09.2023, furnished by the project proponent, under present status of the project, it is mentioned that 'Mining has been carried out up to a depth of 7 meter'.
- iii) However, in the approved scheme of mining plan submitted by the project in Pg.No. 6, Table No-VI, the existing pit dimensions are given as follows:

Pit	L(m)	W(m)	D(m)
I	85m	40m	0-8m (43-35m RL)
II	28m	27m	0-2m (43-41m RL)

From the above, the Committee noted that there is ambiguity regarding the existing pit depth in the project area. Hence, the Committee, after detailed deliberations, decided that the proponent shall furnish a clarification letter obtained from the concerned AD (Mines) regarding the actual pit depth in the project area with reference to Pg. No.6 of approved scheme of mining plan.


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Agenda No: 419-13

(File No: 8412/2023)

Proposed Rough Stone & Gravel quarry Lease over an extent of 4.27.4 Ha at S.F.Nos. 469/1B, 469/2B, 469/3B, 469/4B, 469/5B, 469/6B, 476/1, 476/2, 476/3 & 476/4 of A.P.Nadanoor Village, Alangulam Taluk, Tenkasi District, Tamil Nadu by Thiru. K. Rajkumar – For Environmental Clearance. (SIA/TN/MIN/417188/2023 dated.06.02.2023)

The proposal was placed in the 419th meeting of SEAC held on 01.11.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru. K. Rajkumar has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 4.27.4 Ha at S.F.Nos. 469/1B, 469/2B, 469/3B, 469/4B, 469/5B, 469/6B, 476/1, 476/2, 476/3 & 476/4 of A.P.Nadanoor Village, Alangulam Taluk, Tenkasi District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of item I(a) "Mining of Minerals Project' of the Schedule to the EIA Notification,2006.
3. ToR was issued to the proponent vide Lr.No.SEIAA-TN/F.No.8412/SEAC/ToR-964/2021 dated.30.04.2021.
4. Public hearing was conducted on 05.01.2023.
5. Earlier, the proposal was placed for appraisal in the 370th meeting of SEAC held on 25.04.2023.

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

- i) The proponent shall furnish the Action Plan for the issues as raised in the public hearing.
- ii) Considering that there is a school at a distance of 1.31 km from the site, the PP shall carry out the traffic study of the vehicles plying within the cluster area by involving a reputed agency such as Anna


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University-Chennai, IIT-Madras, NIT-Trichy, etc for evaluating the road safety, pollution load and prescribing mitigation measures.

6. On receipt of a reply from the proponent for the above queries, the proposal is again placed in this 419th SEAC meeting.
7. The proponent submitted an action plan for mitigating the issues raised in Public Hearing. Further, he submitted a report on Traffic & Environmental Study for cluster area around the proposed quarry conducted by Division of Transportation Engineering, Anna University.
8. The other salient features of the proposal are as follows:

File No	8412/2023	Category	B1
	417188/2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. K. Rajkumar, S/o. Kalanjiam, No.81/35, Selvi Nagar, Sindupoondurai, Tirunelveli District – 627 001.
2.	Type of quarrying (Ordinary Stone/Granite/Limestone)	:	Rough Stone & Gravel Quarry
3.	S.F Nos. of the quarry site with area break-up	:	469/1B, 469/2B, 469/3B, 469/4B, 469/5B, 469/6B, 476/1, 476/2, 476/3 & 476/4
4.	Village in which situated	:	A.P. Nadanoor village
5.	Taluk in which situated	:	Alangulam
6.	District in which situated	:	Thenkasi
7.	Extent of quarry (in ha.)	:	4.27.4 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	08°48'01.94"N to 08°48'09.37"N 77°26'04.45"E to 77°26'16.85"E
9.	Topo Sheet No.	:	58-H/05
10.	Type of mining	:	Opencast Mechanized Mining Method
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years


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	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
12.	Geological Resources m ³ (RoM)	:	Rough Stone- 17,09,600m ³	-
		:	Grave - 85,480m ³	-
	Minaable Resources m ³ (RoM)	:	Rough Stone- 7,08,400 m ³	Rough Stone- 6,77,435m ³
		:	Grave - 70,302 m ³	Grave - 70,302 m ³
	Annual Peak Production in m ³	:	Rough Stone - 1,43,695m ³	-
		:	Gravel – 25,536m ³	-
	Maximum Depth in meters	:	42m BGL	37m BGL
13.	Depth of water table	:	65-70m below ground level	
14.	Man Power requirement per day:	:	68 Nos.	
15.	Water requirement: 1. Dust Suppression 2.Green belt development 3.Domestic Purposes	:	5.0 KLD 2.0 KLD 1.0 KLD 2.0 KLD	
16.	Power requirement	:	800 liters of HSD/ day	
17.	Precise area communication approved by the Joint Director/ Assistant Director (i/c), Dept of G&M with date	:	Rc.No.M1/41113/2019, dated:12.10.2020.	
18.	Mining Plan approved by Joint Director/ Assistant Director(i/c), Dept. of G&M with date	:	Rc.No.M1/41113/2019, dated:07.11.2020.	


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19.	500m Cluster Letter issued by Joint Director/ Assistant Director(i/c), Dept. of G&M with date	:	Rc.No.M1/41113/2019, dated:07.11.2020.	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:13.02.2021	
21.	Project Cost (excluding EMP cost)	:	Rs. 99,76,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	Rough stone - 6,77,425m ³ Gravel - 70,302m ³
		:	Annual Max RoM in m ³	Rough stone - 1,43,695m ³ Gravel - 25,536m ³
		:	Max Depth in mtrs	37m BGL
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost - Rs. 44,23,980/- Recurring Cost - Rs. 32,55,049/-	
24.	CER cost (in Rs. Lakhs).	:	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 1,43,695m³ of Rough stone and 25,536m³ of gravel by restricting the ultimate depth of mining up to 37m below ground level and subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MoEF &CC, in addition to the following specific conditions:


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


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- 2) The proponent shall furnish an affidavit before obtaining EC from SEIAA stating that the quarried material will be transported only to the crusher located closest to the quarry which belongs to the PP and no long transportation is involved.
- 3) The quarries in the cluster shall form an association and shall employ the required number of Security Guards posted at crucial junctions including School premises and Hospital premises for regulating the traffic movement to ensure the safety of public in the area due to the movement of loaded trucks.
- 4) The PP shall ensure that the transport of materials shall not be carried out during school hours from 8AM-10AM and during 3PM -5PM (or as specified by the school administration).
- 5) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 6) Since the structures are situated within a radial distance of 650 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of


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the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.

- 8) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall within a period of six months from the commencement of mining operations, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 9) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs shall be spent for the activities as committed towards the Panchayat Union Primary School, Sivagnanapuram, Kadaiyam Union, Tenkasi District before obtaining CTO from TNPCB.

Agenda No: 419-14

(File No.5514/2023)

Existing Black Granite Quarry lease over an extent of 3.63.5 Ha at S.F.Nos. 22/2D2, 22/2E1, 22/2F, 22/2G, 22/2H, 22/2I, 22/2J, 22/2N3, 22/2O2, 22/2P, 22/2Q, 22/2R, & 22/2S of Padipallam Village and 189/1A, 189/1B, 189/1C, 189/1D, 189/1E, 189/1F, 189/1G, 189/1H, 189/1I & 189/1J of Thachampattu Village, Gingee Taluk, Villupuram District, Tamil Nadu by M/s. Imperial Granites Private Limited – For Environmental Clearance. (SIA/TN/MIN/57192/2016 dated.06.07.2016)

The proposal was placed in the 419th meeting of SEAC held on 01.11.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **M/s. Imperial Granites Private Limited** has applied for Environmental Clearance for the Existing Black Granite Quarry lease over an extent of 3.63.5 Ha at S.F.Nos. 22/2D2, 22/2E1, 22/2F, 22/2G, 22/2H, 22/2I,


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22/2J, 22/2N3, 22/2O2, 22/2P, 22/2Q, 22/2R, & 22/2S of Padipallam Village and 189/1A, 189/1B, 189/1C, 189/1D, 189/1E, 189/1F, 189/1G, 189/1H, 189/1I & 189/1J of Thachampattu Village, Gingee Taluk, Villupuram District, Tamil Nadu.

2. The project/activity is covered under Category "B" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, a letter dated. 28.10.2020 was addressed to the project proponent requesting to furnish some additional particulars including a copy of approved scheme of mining plan to further process the proposal.
4. The proponent vide letter dated.23.06.2023, submitted the scheme of mining plan for the period from 2023-24 to 2026-27 approved by the Commissioner, Dept. of Geology & Mining.
5. It has been noted that the PP have furnished the Pre-Feasibility Report (PFR) which was prepared in the year 2016 by a RQP.
6. Further, from the letter of Commissioner, Dept. of Geology & Mining dated. 24.05.2023, it is ascertained that the lessee has paid a dead rent of Rs.8,99,668/- for the non-operative periods of 2010-11, 2011-12, 2014-15 to 2022-23.
7. In view of the above, the proposal was placed in the 404th SEAC meeting held on 25.08.2023.

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) The proponent shall submit a revised Pre-Feasibility Report (PFR) afresh.
 - ii) The proponent shall submit the revised CER details as committed during the appraisal.
8. On receipt of the revised Pre-Feasibility Report from the proponent, the proposal is again placed in this 419th SEAC meeting.
 9. The other salient features of the proposal are as follows:


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File No	5514/2023		Category	B	
	57192/2023			1(a)	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	Tvl. Imperial Granites Pvt. Ltd, No. 76, Cathedral Road, Chennai – 600 086.		
2.	Type of quarrying (Stone/ Sand/Granite/Limestone)	:	Black Granite Quarry		
3.	S.F Nos. of the quarry site with area break-up	:	S.F.Nos. 22/2D2, 22/2E1, 22/2F, 22/2G, 22/2H, 22/2I, 22/2J, 22/2N3, 22/2O2, 22/2P, 22/2Q, 22/2R, & 22/2S of Padipallam Village and 189/1A, 189/1B, 189/1C, 189/1D, 189/1E, 189/1F, 189/1G, 189/1H, 189/1I & 189/1J of Thachampattu Village		
4.	Village in which situated	:	Padipallam & Thachampattu		
5.	Taluk in which situated	:	Gingee		
6.	District in which situated	:	Viluppuram		
7.	Extent of quarry (in ha.)	:	3.63.5 Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	12°10'03.8883"N to 12°10'14.1380"N 79°22'23.1164"E to 79°22'30.9398"E		
9.	Topo Sheet No.	:	57-P/8		
10.	Type of mining	:	Opencast Semi- Mechanized Mining		
11.	Life of Project	:	5 years		
	Lease Period	:	20 years (02.04.2007 – 01.04.2027)		
	Mining Plan Period	:	5 years		
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC	
	Geological Resources m ³ (RoM)	:	RoM - 2,92,600 m ³ which includes Granite Recovery (@10%) - 29,260m ³ & Granite waste – 2,63,340m ³		


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		: Top soil - 1,26,624m ³	-
		: Weathered granite – 64,452m ³	-
	Minable Resources m ³ (RoM)	RoM - 1,59,650m ³ which includes Granite : Recovery (@10%) - 15,965m ³ & Granite waste – 1,43,685m ³	-
		: Top soil - 38,528m ³	-
		: Weathered granite – 18,000m ³	-
	Annual Peak Production in m ³	RoM- 46,290m ³ which : includes granite recovery (@10%) of 4,629m ³ & granite waste of 41,661m ³	-
	Maximum Depth in meters	: 26m	21m
13.	Depth of water table	: 42-48m	
14.	Man Power requirement per day:	: 23 Nos.	
15.	Water requirement: 1. Drinking & Domestic Purpose 2. Dust Suppression 3. Greenbelt	: 2.4 KLD 0.7 KLD 0.9 KLD 0.8 KLD	
16.	Power requirement	: 2,55,440 liters of HSD	
17.	Lease sanctioned by Secretary to Govt., Industries Department	: G.O.(3D) No.48 dated.15.03.2007.	
18.	Mining Plan approved by Commissioner, Dept. of Geology & Mining with date	: Rc.No.3349/MM4/2023, dated:24.05.2023.	


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19.	500m cluster letter issued by Deputy Director, Department of G&M, with date	:	Rc.No.B/G&M/49/2023, dated:18.08.2023.	
20.	Existing pit letter issued by Deputy Director, Department of G&M, with date	:	Rc.No.B/G&M/49/2023, dated:18.08.2023.	
21.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:07.08.2023	
22.	Project Cost (excluding EMP cost)	:	Rs. 1,39,95,000/-	
23.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	RoM – 1,26,790m ³ which includes 12,679m ³ of granite recovery (@10%) & 1,14,111m ³ of granite waste
		:	Annual Max RoM in m ³	RoM- 46,290m ³ which includes granite recovery (@10%) of 4,629m ³ & granite waste of 41,661m ³
		:	Ultimate Depth in mtrs	21 BGL
24.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 38,33,950 /- Recurring Cost – Rs. 12,74,970 /-	
25.	CER cost (in Rs. Lakhs).	:	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 of not exceeding an annual peak production of RoM- 46,290m³ which includes granite recovery (@10%) of 4,629m³ & granite waste of 41,661m³ by maintaining the ultimate depth of mining up to 21m below ground



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

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 ensure the safety provisions as stipulated in the DGMS Circular No:02, dated. 29.11.2019 while using the Diamond Wire Saw machines in the proposed quarry operation.
3. To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.
4. The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.
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 during the 4th 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


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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. As accepted by the Project Proponent the CER cost of Rs.11.20 lakh and the amount shall be spent for the following committed activities at PUMS (UDISE Code: 33070203301), Gingee Block, Villupuram District through the District administration before obtaining CTO from TNPCB.

Sl. No.	Description	Cost breakup
1	Renovation of Existing Toilet and its Maintenance	Rs. 2,50,000/-
2	Providing Computers, Smart Class room, Projector, Steel Bureau, LED lights, Ceiling Fans, UPS unit, Audio speaker set, Mic, Amplifier, Library steel rack and Painting works to the school	Rs. 7,50,000/-
3	Providing Environmental related books and Study materials for JEE/NEET exams to the school	Rs. 50,000/-
4	Carrying out plantation in the School Boundary @ 100 Nos	Rs. 30,000/-
TOTAL		Rs. 10,80,000/-

Agenda No: 419-15

(File No.9350/2022)

Proposed Rough Stone & gravel quarry Lease over an extent of 1.69.0 Ha at S.F.Nos. 64/1B (Part) & 64/2B (Part) in Kodavadi Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru. V. Harikrishnan – For Environmental Clearance. (SIA/TN/MIN/279384/2022 dated. 23.06.2022)

The proposal was placed in the 419th meeting of SEAC held on 01.11.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


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The SEAC noted the following:

1. The project proponent, Thiru. V. Hari Krishnan has applied for Environmental Clearance for the Proposed Rough Stone & gravel quarry Lease over an extent of 1.69.0 Ha at S.F.Nos. 64/1B (Part) & 64/2B (Part) in Kodavadi Village, Kinathukadavu 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. Earlier, the proposal was placed in the 356th meeting of SEAC held on 17.02.2023. During the presentation, SEAC noted that from the KML, it is construed that a portion of the applied lease area has been quarried after 2018 without valid Environmental Clearance. Therefore, the SEAC decided that
 - i) The AD/Mines shall inspect the quarry site and provide his comments on the existing site condition and pit details.
 - ii) The PP shall enumerate the structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, etc.
4. Accordingly, the AD Mines has inspected the quarry lease applied area and recommended to the Sub Collector, Pollachi to initiate further action on the proponent for quarrying without Environmental Clearance. Accordingly, the Sub Collector, Pollachi has levied a penalty for a sum of Rs.11,33,254/- to the lessee.

Based on the above details, it was ascertained that the proponent has carried out mining activity without obtaining EC.

As per MoEF & CC Notification S.O. 804 (E) dated 14.03.2017,

"In case the project or activities requiring prior Environmental Clearance under EIA Notification 2006 from the concerned Regulatory Authority are brought for Environmental Clearance after starting the construction work, or have undertaken expansion, modernization and change in product-mix without prior EC, these projects shall be treated as cases of violations and in such cases, even Category B projects which are granted Environmental Clearance by the SEIAA constituted under sub-section(3)


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section 3 of the Environment (Protection) Act 1986 shall be appraised for grant of Environmental Clearance only by the concerned Expert Appraisal Committee and Environmental Clearance will be granted accordingly".

Therefore, in view of the above & based on the presentation and documents furnished by the project proponent, SEAC decided to grant of **Terms of Reference (TOR) under Violation category**, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and ToR given in Annexure-I, the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants. **Terms of Reference issued are subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.**

i. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 for the project in case of assessment of Ecological damage, remediation plan and natural & community resource augmentation plan to be prepared as an independent chapter in the Environment Impact assessment report by the Accredited consultant and also with collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural & community resource augmentation plan to be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1996, accredited by NABET or a Laboratory of council of Scientific and industrial research institutions working in the field of environment..

ii. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.

3. The project proponent besides above must submit the No Objection certificate (NOC) in compliance of the orders of the Hon'ble Supreme court to approach State Mines and Geology Department for certification regarding payment of


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100% cost of illegally mined minerals to the State Government in terms of the Section 21(5) of the MMDR Act, 1957.

4. The PP shall furnish letter from AD, mines including the following details.
 - a) Existing pit dimension through precise mine surveying (DGPS).
 - b) Details of illegal/illicit mining carried out in the proposed quarry site
 - c) Quantity of material mined out outside the mine lease area
 - d) Condition of Safety zone/benches as on date.
 - e) Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
5. The SEAC also recommends that SEIAA may look into any other legal and regulatory issues that are applicable before issuing the post mining EC.

Agenda No: 419-16

(File No.9505/2022)

Proposed construction of Residential Building at S.Nos. 10/5, 10/6, 10/7, 10/8, 10/11A, 11/7A, 11/8A1A, 11/8B, 11/8C1A, 11/8C1B, 11/8C2, 11/8C3, 11/8C4, 11/9A, 11/10B1B, 11/10B2, 12/1A, 12/1B of Neelankarai Village & S.No. 23/24 of Seevaram Village of Sholinganallur Taluk, Chennai District, Tamil Nadu by M/s. Casagrاند Builder Pvt. Ltd - For Environmental Clearance. (SIA/TN/INFRA2/402702/2022, dated 13.10.2022)

The proposal was placed in the 419th meeting of SEAC held on 01.11.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Casagrاند Builder Pvt. Ltd has applied for Environmental Clearance for the Proposed construction of Residential Building at S.Nos. 10/5, 10/6, 10/7, 10/8, 10/11A, 11/7A, 11/8A1A, 11/8B, 11/8C1A, 11/8C1B, 11/8C2, 11/8C3, 11/8C4, 11/9A, 11/10B1B, 11/10B2, 12/1A, 12/1B of Neelankarai Village & S.No. 23/24 of Seevaram Village of Sholinganallur Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B" of item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.
3. The proposed project site partly falls under CRZ II Zone.


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4. The proposal is awaiting DCZMA recommendations towards obtaining CRZ Clearance.
5. Earlier, the proposal was placed in the 344th SEAC meeting during which the proponent was absent. Hence, the subject was not taken up for discussion.
6. Subsequently, the proponent has submitted a revised application by including S.Nos.10/1 in the proposal.

In view of the above, the proposal is again placed in this 419th SEAC meeting held on 01.11.2023.

The Committee, after deliberations, decided to defer the proposal and take it up for appraisal after obtaining the following from the project proponent:

- i) The recommendations of SCZMA since the proposal also attracts CRZ Clearance.
- ii) The reason for addition of S.No.10/1 and the details of change in plot area/built-up area due to the addition of S.No.10/1 in the proposal along with the supporting documents.

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

Agenda No: 419-17
(File No.9751/2022)

Proposed Rough Stone & Gravel quarry Lease over an extent of 2.05.00 Ha at S.F.No. 403 in Palamadai Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by Thiru. A. Sundara Rajan – For Environmental Clearance. (SIA/TN/MIN/414700/2023 dated.20.01.2023)

The proposal was placed in the 419th meeting of SEAC held on 01.11.2023. 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. A. Sundara Rajan** has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 2.05.00 Ha at S.F.No. 403 in Palamadai Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu.


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2. The project/activity is covered under Category "B2" of item 1(a) "Mining of Minerals Project' of the Schedule to the EIA Notification,2006.

During the meeting, the Committee noted that the project proponent is absent and is not available for attending the meeting. Hence the subject was not taken up for discussion.

Agenda No: 419-18


(File No.9998/2023)

Existing multi-colour granite quarry lease over an extent of 1.84.50 Ha at S.F.Nos. 128/1, 129/1(P), 129/2(P), 129/3(P), 136/1(P) & 136/2 of Puthur Village, Rajapalayam Taluk, Virudhunagar District, Tamil Nadu by Thiru.M.K.Arasappan – For Environmental Clearance. (SIA/TN/MIN/425828/202 dt.12.04.2023)

The proposal was placed in the 419th meeting of SEAC held on 01.11.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.M.K.Arasappan has applied for Environmental Clearance for the Existing multi-colour granite quarry lease over an extent of 1.84.50 Ha at S.F.Nos. 128/1, 129/1(P), 129/2(P), 129/3(P), 136/1(P) & 136/2 of Puthur Village, Rajapalayam Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the project proponent vide Lr.No.SEIAA-TN/F.No.3051/EC/1(a)/1712/2014 dated 04.03.2015 for a quantity of 19,008m³ of rough stone& 9504m³ of gravel.
4. Now, the proponent has submitted an application seeking Environmental Clearance for quarrying multi-colour granite in the same survey number of the previous EC granted for the quarrying of rough stone during the year of 2015 to 2018. The production as per the approved mining plan is 50,000m³ of RoM which includes 15,000m³ of multi-colour granite and 35,000m³ of granite waste & also 4736m³ of weathered rock & 3920m³ of top soil.


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5. Earlier, the proposal was placed in the 384th SEAC meeting held on 16.06.2023. 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) The project proponent shall submit a certified compliance report obtained from IRO of MoEF&CC for the EC obtained earlier dated.04.03.2015.
 - ii) The PP shall submit the revised EMP.
 - iii) The PP shall submit the mining methodology of converting the rough stone quarry into the Granite quarry where the safety precautions to be maintained for ensuring the slope stability, accessibility, and extraction of blocks.
6. The proponent vide letter dated.31.07.2023 submitted a Certified Compliance Report EP/12.1/2023-24/SEIAA/48/TN/877 dated.21.07.2023 from IRO, Chennai of MoEF&CC for the EC obtained earlier and also replies for the other queries raised in the 384th SEAC meeting.
7. In view of the above, the proposal is again placed in this 419th SEAC meeting held on 01.11.2023.
8. From the Certified Compliance Report dated.21.07.2023, the Committee noted that the proponent has mined upto a depth of 7.5m against the EC approved depth of 6m.

As per MoEF & CC Notification S.O. 804 (E) dated 14.03.2017,

"In case the project or activities requiring prior Environmental Clearance under EIA Notification 2006 from the concerned Regulatory Authority are brought for Environmental Clearance after starting the construction work, or have undertaken expansion, modernization and change in product-mix without prior EC, these projects shall be treated as cases of violations and in such cases, even Category B projects which are granted Environmental Clearance by the SEIAA constituted under sub-section(3) section 3 of the Environment (Protection) Act 1986 shall be appraised for grant of Environmental Clearance only by the concerned Expert Appraisal Committee and Environmental Clearance will be granted accordingly".

In the present case, the proponent has exceeded the depth beyond the limit specified in



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the prior EC issued and has therefore violated the provisions of EC dated.04.03.2015. Therefore, in view of the above & based on the presentation and documents furnished by the project proponent, SEAC decided to grant of **Terms of Reference (TOR) under Violation category**, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and ToR given in Annexure-I, the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants. **Terms of Reference issued are subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.**

- i) The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 for the project in case of assessment of Ecological damage, remediation plan and natural & community resource augmentation plan to be prepared as an independent chapter in the Environment Impact assessment report by the Accredited consultant and also with collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural & community resource augmentation plan to be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1996, accredited by NABET or a Laboratory of council of Scientific and industrial research institutions working in the field of environment..
- ii) As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
- iii) The project proponent besides above must submit the No Objection certificate (NOC) in compliance of the orders of the Hon'ble Supreme court to approach State Mines and Geology Department for certification regarding payment of 100% cost of illegally mined minerals to the State Government in terms of the Section 21(5) of the MMDR Act, 1957.
- iv) The PP shall furnish letter from AD, mines including the following details,


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- a) Existing pit dimension through precise mine surveying (DGPS).
 - b) Details of illegal/illicit mining carried out in the proposed quarry site
 - c) Quantity of material mined out outside the mine lease area
 - d) Condition of Safety zone/benches as on date.
 - e) Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
- v) The SEAC also recommends that SEIAA may look into any other legal and regulatory issues that are applicable before issuing the post mining EC.

Agenda No: 419-19

(File No: 9964/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 4.83.50 at SF.No. 270/13, 270/14A, 270/14B, 270/3, 271/1B(P), 271/1C, 271/1D, 271/1E, 271/2(P), 271/3(P), 271/4(P), 271/5, 271/6, 271/7, 272/1, 276/1A, 276/1B and 276/2 of Kattankulam Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by M/s. Sri Thaiyalnayagi Earth Movers Private Limited - for Environmental Clearance. (SIA/TN/MIN/424245/2023, Dated:03.04.2023)

Earlier the proposal was placed in 387th meeting of SEAC held on 28.06.2023. The details of the minutes are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Sri Thaiyalnayagi Earth Movers Private Limited has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 4.83.50Ha at SF.No. 270/13, 270/14A, 270/14B, 270/3, 271/1B(P), 271/1C, 271/1D, 271/1E, 271/2(P), 271/3(P), 271/4(P), 271/5, 271/6, 271/7, 272/1, 276/1A, 276/1B and 276/2 of Kattankulam Village, Uthiramerur Taluk, Kancheepuram 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 PP stated that the proposal is located at 4.35km north of Karikili Bird Sanctuary. It is located outside the Eco sensitive zone vide letter Ref. No. WL5/3767/2023 dated 15.02.2023 issued by PCCF and CWLW & Ref.No. WL5/17723/2022 dated


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26.10.22 and as such NBWL is not applicable.

The proposal was placed in the 649th Authority meeting held on 23.08.2023.

The authority noted that this proposal was earlier placed for appraisal in 637th Authority meeting held on 11.07.2023 and noted that SEAC recommended the proposal for the grant of Environmental Clearance in 387th meeting of SEAC held on 28.06.2023 subject to the certain conditions. The Authority in its 637th meeting raised ADS. The PP has submitted reply for SEIAA ADS.

After detailed discussions, SEIAA observed that, this PP & EIA Co-ordinator have manipulated the records letter of AD mines which has given details of existing and proposed quarry. In the signed PPT presented before SEAC committee they have removed the details of the existing quarry, thereby falsifying records and data provided before the Committee and Authority and applied as "B2" category instead of "B1" category. This may please be examined and action may be initiated and suggested.

In view of these, the authority decided to refer back the proposal to SEAC for re-appraisal/ seeking clarifications on the above said points.

Now the proposal was placed in 419th meeting of SEAC held on 01.11.2023. 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: 419 - 20

(File No: 4941/2016)

Proposed Grey granite quarry over an extent of 2.02.5 Ha in SF.No. 416/2A & 417/2B at Veppalampatty Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu by M/s. Sri Balaji Land Promoters Pvt. Ltd - For Environmental Clearance Extension. (SIA/TN/MIN/295179/2022, Dt.12.12.2022)

Earlier the proposal was placed in the 379th SEAC Meeting held on 12.05.2023. The details of the minutes are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Sri Balaji Land Promoters Pvt. Ltd has applied for Environmental Clearance Extension for the Proposed Grey granite quarry over


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an extent of 2.02.5 Ha in SF.No. 416/2A & 417/2B at Veppalampatty Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. EC Issued vide Lr. No. SEIAA-TN/F.No.4941/EC/1(a)/2816/2015, dated: 08.02.2016 valid up to 07.02.22 including COVID Extension.
4. EC extension application applied on 12.12.2022.

The proposal was placed in the 646th Authority meeting held on 09.08.2023. The authority noted that this proposal was placed for appraisal in 395th meeting of SEAC held on 27.07.2023 and the committee noted that the PP/EIA consultant has given "request for withdraw" in online portal. But PP in his letter stated that "We have not applied for withdraw the proposal from the portal and we still processing the proposal for extension of validity of EC". Meanwhile it was noted that the PP has filed a fresh application '10119'. Hence the SEAC decided that EDS may be raised on the fresh application asking explanation to the PP for filing two applications and requesting to process the two files simultaneously. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA-TN to obtain the following details and place before the Authority for further course of action.

1. The PP shall furnish certified compliance report.
2. The PP shall furnish letter from AD, Mines detailing the following.
 - a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b. Quantity of minerals mined out.
 - c. Highest production achieved in any one year
 - d. Detail of approved depth of mining.
 - e. Actual depth of the mining achieved earlier.
3. The PP shall furnish an explanation for filing two applications (Extension Application – 4941 and Fresh Application - 10119) and requesting to process the two files simultaneously.

After detailed discussions, the authority raised ADS. The PP has now submitted reply


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for SEIAA ADS. The reply was placed in 654th authority meeting held on 13.09.2023.

In view of the above, the authority after detailed discussions decided to refer back the file to SEAC and SEAC is requested to appraise the project based on the above views. Now the proposal was placed in 419th meeting of SEAC held on 01.11.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEIAA. The PP states that,

"We wish to bring to your kind notice and record that we have applied for extension of validity of Environmental Clearance vide file number-4941 and the same does not qualify for Extension of Validity of Environmental Clearance as per MOEF & CC EIA Notification & its amendments.

Therefore, we made a withdrawal application request for file number 4941 and submitted withdrawal vide online Parivesh portal. And later by ways of hard copy we submitted and covering letter stating that we are not withdrawing the application erroneously.

Now, we wish to bring to your kind notice and record that we request for withdrawal our application file number 4941 submitted for extension of validity of environmental clearance and process our other application submitted for Environmental Clearance vide file number 10119.

We are very sorry for the ambiguity raised due to our mistake and seek sincere apologies for our mistake and request your good office to do the needful and thanking you for anticipation in this regard".

Based on the above clarification, the Committee decided to recommend to SEIAA to accept the withdrawal request made by the PP to file no.4941.

Agenda No: 419 - 21

(File No: 6299/2017)

Proposed Hotel and Restaurant Building Project located at Survey Nos. 205/1B8, 205/1C2, 205/2B, 205/3A2, & 205/3C of Vandalur (Madhura Otteri) Village, Chengalpattu Taluk, Kancheepuram District, Tamil Nadu by Mr.P.Rajendran - Amendment In Environmental Clearance. (SIA/TN/MIS/304188/2023, Dated.14.09.2023)

The proposal was placed in 419th SEAC Meeting held on 01.11.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:


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1. The Project Proponent, Mr. P. Rajendran has applied for Amendment In Environmental Clearance for the Proposed Hotel and Restaurant Building Project located at Survey Nos. 205/1B8, 205/1C2, 205/2B, 205/3A2, & 205/3C of Vandalur (Madhura Otteri) Village, Chengalpattu Taluk, Kancheepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) " Building & construction project" of the Schedule to the EIA Notification, 2006.
3. EC issued vide Letter No. SEIAA-TN/F.6299/EC/8(a)/4322/2020 dated:14.08.2020.
4. The PP furnished compliance report from MoEF&CC-IRO, Chennai dated 06.09.2023.

S. No	EC Obtained		EC Obtained	EC Amendment Sought
	Proposed Activity		Construction of Hotel and Restaurant Building Project	Construction of Hotel and Convention Centre
	Project Components	Buildings	Block A – G + 3 F, Block B – G + 1 to 3 F+ Service F + 4 to 9 F+ Service F Service Block – B + G + 2 F Combined Triple Basement floors (for Block A & B)	Tower A – G + 9 F Tower B – G + 3 F Tower C – G + 1 F Combined Double Basement Floors (for Towers A, B & C)
		End use	<ul style="list-style-type: none"> • Hotel Rooms • Restaurants • Banquet Halls • Gym & amenities 	<ul style="list-style-type: none"> • Hotel Rooms • Restaurant & Café • Banquet Halls • Gym, Game zone, Theatre & amenities. • Marriage Halls

			(Convention Centre)
Total Built up area	31,222 Sq.m		30,714 Sq.m
Expected No. of Occupancy	4,256 Nos		3,538 Nos
Total Fresh Water Requirement	210 KLD		132 KLD
Sewage Generation	277 KLD		167 KLD
Wastewater Treatment	STP of 300 KLD Capacity		STP of 175 KLD Capacity & ETP of 10 KLD Capacity
Treated Sewage generation	264 KLD		159 KLD
Total Solid Waste generation	1,361 Kg/day		1,158 Kg/day
Power Requirement	3, 000 kVA		1,600 kVA
Power Back up (DG sets)	2 Nos. of 500 kVA, 1 No. of 750 kVA & 1 Nos. of 1,250 kVA		2 Nos. of 810 kVA

Based on the presentation SEAC decided to recommend the amendments to the of Environmental Clearance as requested by the PP, as above, subject to all the other conditions stipulated in EC vide Letter No.SEIAA-TN/F.6299/EC/8(a)/4322/2020 dated:14.08.2020 remains unaltered.

Agenda No: 419-22

(File No: 9957/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.00.0Ha at SF.No. 116/1 (part) of Pachudayampatty Village, Sendamangalam Taluk, Namakkal District, Tamil Nadu by Thiru. N.Tirupathiswamy - for Environmental Clearance. (SIA/TN/MIN/424136/2023, Dated:01.04.2023).

Earlier the proposal was placed in 387th meeting of SEAC held on 28.06.2023. The


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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.Tirupathiswamy has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 1.00.0Ha at SF.No. 116/1 (part) of Pachudayampatty Village, Sendamangalam Taluk, Namakkal 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.

Based on the presentation and document furnished by the project proponent, SEAC decided to seek the following details from the project proponent.

1. The PP shall furnish revised VAO letter.
2. The PP shall furnish registered consent.
3. Details of existing pit.
4. The PP shall revise CER.
5. The proponent shall enumerate on the details of the structures located within 100m, 200m, 300m radius from the proposed mine lease area indicating the type of structure/building, usage/purposes of such building – commercial/industrial/residential/farm house/Govt. building such as Sub-station, occupants of such buildings/structures, ownership of the buildings/structures- whether it belongs to the PP (or) not, etc.

Now the proposal was placed in 419th meeting of SEAC held on 01.11.2023.

S. NO	SEAC QUERY	REPLY by PP
1.	The PP shall furnish revised VAO Letter.	The Revised VAO Letter Submitted
2.	The PP shall furnish registered consent	The registered Consent Document Submitted


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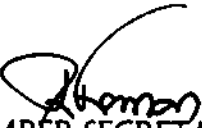

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3.	Details of existing pit.	The Pit details given in approved Mining Plan were submitted.														
4.	The PP shall revise CER.	The CER Cost Revised.														
5.	The proponent shall enumerate on the details of the structures of the structures located within 100m, 200m, 300m radius from the proposed mine lease area indicating the type of Structure/ building, usage/ purposes of such building- commercial/ industrial/ residential/ farm house/ Govt. building such as sub-station, occupants of such building/ structures, ownership of the building/ structures whether it belongs to the PP not, etc.	The 300m Radius surface features from the lease area were Submitted <table border="1"> <thead> <tr> <th>Distance</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>50m- NW</td> <td>Oil Mill Shed</td> </tr> <tr> <td>100m- NW</td> <td>Shed-1</td> </tr> <tr> <td>150m- N</td> <td>Shed- 2</td> </tr> <tr> <td>200m- N</td> <td>Small Rough Stone Factory- 1, Temple-1</td> </tr> <tr> <td>250m- N</td> <td>Farm House- 1, Shed- 2</td> </tr> <tr> <td>300m- NW</td> <td>House-1, Shed-1</td> </tr> </tbody> </table>	Distance	Details	50m- NW	Oil Mill Shed	100m- NW	Shed-1	150m- N	Shed- 2	200m- N	Small Rough Stone Factory- 1, Temple-1	250m- N	Farm House- 1, Shed- 2	300m- NW	House-1, Shed-1
Distance	Details															
50m- NW	Oil Mill Shed															
100m- NW	Shed-1															
150m- N	Shed- 2															
200m- N	Small Rough Stone Factory- 1, Temple-1															
250m- N	Farm House- 1, Shed- 2															
300m- NW	House-1, Shed-1															

The SEAC has noted that The Tamil Nadu Minor Mineral Concession Rules, 1959 indicates that

"...36 (1-A) (a) No lease shall be granted for quarrying stone within 300 metres (three hundred metres) from any inhabited site:...."

Therefore, based on the presentation made by the proponent, SEAC noted that there are too many physical structures and a public road located within 300m radius of the project site. Hence the Committee decided not to recommend the proposal.


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Agenda No:419-23

(File No. 9113/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.39.0 Ha at S.F.Nos. 14/1&15/2 Azhagiypakkam Village, Marakkanam Taluk, Viluppuram District by Thiru. R.Rasu - For Terms of Reference. (SIA/TN/MIN/73833/2022, dated 21.03.2022)


Earlier the proposal was placed in 284th Meeting of SEAC held on 10.06.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

- 1. The Project Proponent, Thiru. R.Rasu has applied for Terms of Reference for the proposed Rough Stone quarry lease over an extent of 1.39.0 Ha at S.F.Nos.14/1&15/2 Azhagiypakkam Village, Marakkanam Taluk, Viluppuram District, Tamil Nadu.**
- 2. The project /activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.**
- 3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 121070m³ of Rough Stone, 9024 m³ of Weathered Rock and 19332m³ of Gravel. The annual peak production 24310 m³ of Rough Stone (4th year), 4996m³ of Weathered Rock (1st year) and 10620m³ of Gravel (1st year). The ultimate depth - 33 m BGL.**

Based on the presentation made by the proponent and considering safety point of view, SEAC recommended to remove the last bench in XY-CD section. Accordingly grant of Terms of Reference (TOR) with Public Hearing is issued for the production of 11,19,220m³ of rough stone, 9024m³ of Weathered Rock and 19332m³ of Gravel in 5 years with ultimate depth 33m, subject to the certain conditions.

Subsequently, the proposal was placed in the 529th Authority meeting held on dated 05.07.2022. The Authority after detailed discussion decided to call for the following details from the project proponent.

- i. Details of water bodies in the 2km radius of the proposed mining site.**
- ii. NOC from DFO in regard to impact of mining on nearby R.F (Sewer R.F @ 2.5 km & straying wild animals.**


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The PP has not replied to the above queries and the PP has requested to close the ToR proposal vide letter dated 11.05.2023.

The proposal was placed in the 619th Authority meeting held on Dated:18.05.2023.

The Authority noted that the PP has requested to withdraw his file stating that he has obtained revised 500m radius cluster letter in this regard vide dated 27.09.2022. After detailed discussion, the Authority decided that the file shall be sent to SEAC to obtain opinion from SEAC whether the project comes under B1 or B2 and also SEAC may furnish its recommendation for the withdraw request from PP.

The proposal was then placed in the 404th SEAC Meeting held on 25.08.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEIAA. As per the revised 500m radius letter obtained from Deputy director dated:27.09.2022, the proposed quarry comes under B2 category. Based on the revised 500meter radius, PP has submitted new application for Environmental clearance vide Online Proposal No. SIA/TN/MIN/413235/2023 dated:12.01.2023 & File No.9762.The file was placed in 620th SEIAA meeting and the Authority decided to refer the matter to SEAC for its remarks.

Based on the presentation made by the proponent, SEAC decided to call for the following details from the project proponent.

- (i) The PP shall obtain a revised cluster letter comprehensively indicating the name of lessee operating within a distance of 500 m (with each other), area of extent (Ha), Survey Numbers, Status of the lease (existing/ expired/ abandoned/ proposed/ Discontinued/ Not executed), 'Period of its operation' after the lease was executed (dates with year).

Now the proposal was placed in 419th meeting of SEAC held on 01.11.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC. The PP has obtained revised 500m radius letter vide Rc.No.B/G&M/420/2018 dated 12/09/23. Based on the clarification the Committee decided to recommend to SEIAA to accept the withdrawal request made by the PP for file no.9113.


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Agenda No: 419-24

(File No: 10118/2023)

Proposed Earth quarry lease over an extent of 0.71.5Ha at SF.No. 263/1A 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).

Earlier the proposal was placed in 401st 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 0.71.5Ha at SF.No. 263/1A of Keelaperumpallam Village, Tharangambadi Taluk, Mayiladuthurai 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.

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.

Now the proposal was placed in 419th meeting of SEAC held on 01.11.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

S. NO	SEAC QUERY	REPLY
1.	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.	The PP has obtained revised Mining plan vide RC.No.37/Mines/2022 dated 20.10.2023 over an extent of 0.71.5Ha at SF.No. 263/1A.


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File No	10118/2023	Category	B2
	SIA/TN/MIN/432468/2023, Dated:07.06.2023		
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Tmt. E. Vasantha, W/o. Elangovan, No.34, VGP Srinivasa Nagar, North 1st Main Road, Rajakilapakkam, Selaiyur, Chengalpattu Taluk, Kancheepuram District-600073
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Earth quarry
3.	S.F Nos. of the quarry site with area break-up	:	263/1A & 264/1
4.	Village in which situated	:	Keelaperumpallam
5.	Taluk in which situated	:	Tharangambadi
6.	District in which situated	:	Mayiladuthurai
7.	Extent of quarry (in ha.)	:	1.20.00Ha
8.	Latitude & Longitude of all corners of the quarry site	:	11°07'07.78"N to 11°07'13.00"N 79°49'17.91"E to 79°49'28.38"E
9.	Topo Sheet No.	:	58 -M/16
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 ³	:	60,000m ³
	Minable Resources m ³	:	11,198m ³
	Annual Peak Production in m ³	:	11,198m ³
	Maximum Depth in meters	:	2.0m BGL
13.	Depth of water table	:	55m in summer season - 60m in rainy season


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14.	Man Power requirement per day:	:	12 Employees
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.5 KLD 0.05 KLD 0.05 KLD 0.5 KLD 0.5 KLD
16.	Power requirement	:	TNEB -
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Rc. No. 37/Mines/2022 Dated: 18.10.2023
18.	Mining Plan approved by Assistant Director, Department of G&M.	:	Rc. No. 37/Mines/2022 Dated: 10.04.2023
19.	500m Cluster Letter approved by the Assistant Director(i/c), Department of G&M.	:	Rc. No. 37/Mines/2022 Dated: 10.04.2023
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:28.04.2023
21.	Project Cost (excluding EMP cost)	:	Rs. 9,13,180/-
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits. Rough stone
		:	Max Total in m ³
			6,560m ³
:	Annual Max in m ³		6,560m ³
:	Max Depth in (m)		2.0m BGL
23.	EMP cost (in Rs. Lakh).	:	Rs.1.95Lakhs
24.	CER cost (in Rs. Lakh).	:	Rs. 2,00,000/-

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for Annual Peak excavation quantity of not exceeding 6,560m³ with maintaining an ultimate pit depth of 2m BGL subject for a maximum period of one year from the date


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of lease execution 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 PP shall complete the quarrying operations within a period of 1 year from the date of execution of the lease.
2. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
3. The PP shall install a bio-toilet within the mine lease area before obtaining the CTO from the TNPCB.
4. The PP shall carry out the required number of plantation as committed in the EMP without deviation.
5. The PP shall not carry out drilling & blasting operations in the proposed quarry.
6. As accepted by the Project proponent the CER cost is Rs.2 Lakhs and the amount shall be spent for the committed activities to Government Higher Secondary School, Keelaperumpallam Village before obtaining CTO from TNPCB.

Agenda No: 419-25

(File No: 8294/2021)

Proposed Rough Stone quarry & Gravel Quarry lease over an extent of 1.68.0 Ha at S.F.Nos. 80/3, 80/4, 80/5, 80/6, 80/17 & 80/19 of Melur Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by M/s. Sai Hridham infraa (P) Ltd - For Environmental Clearance. (SIA/TN/MIN/405697/2022, dated: 07.11.2022)

Earlier the proposal was placed for appraisal in this 337th meeting of SEAC held on 13.12.2022. The details of the project furnished by the proponent are given in the website(www.parivesh.nic.in). The SEAC noted the following:

1. The project proponent, M/s. Sai Hridham Infraa (P) Ltd has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 1.68.0Ha at S.F.Nos. 80/3, 80/4, 80/5, 80/6, 80/17 & 80/19 of Melur Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.


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Based on the presentation and documents furnished by the project proponent, SEAC on viewing google map it is observed that the southern side of the existing pit -i.e., safety berm, has been extracted for a width of about 5m. Hence SEAC decided to obtain the following from the PP:

- (i) A letter from the concerned AD (Geology & Mining) stating whether the PP has violated or not.
- (ii) If no violation has been observed with the PP, the necessary corrections shall be incorporated in the 'Production & Development' plan & section which was submitted as a part of the approved Mining Plan with the consent of the competent authority to indicate the existence of safety berm and it shall be submitted.

Now the proposal was placed in 419th meeting of SEAC held on 01.11.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

S. NO	SEAC QUERY	REPLY
1.	A letter from the concerned AD (Geology & Mining) stating whether the PP has violated or not.	<ul style="list-style-type: none"> ▪ Proponent Approaches Department of Geology and mining, Pudukottai regarding the details of the excavation quantity on 15.06.2023. ▪ The project area was inspected by Assistant Director (Geology & Mining) & Revenue Inspector(Mines) on dated: 11.07.2023. ▪ It is estimated about 28,800m³ of Rough stone has been excavated in the project site and the present pit dimension is 80m (L) x 18m (B) x 20m (D).


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		<ul style="list-style-type: none"> Assistant Director sent Letter to RDO vide 276/2020(G&M), dated:09.10.2023 to carry out enquiry regarding the excavation within the project site. As per the letter Dated 09.10.2023 RDO called for the enquiry on 02.11.2023 4.PM to the Previous Land owners ie., Thiru. Arunachalam S/o. Ganapathi Tmt. Kala W/o. Arumugam Thiru. Magalingam S/o. Ganapathi
2.	If no violation has been observed with the PP, the necessary corrections shall be incorporated in the Production & Development plan & section which was submitted as a part of the approved Mining Plan with the consent of the competent authority to indicate the existence of safety berm and it shall be submitted.	<ul style="list-style-type: none"> The revised mining plan is prepared and got approved from the Assistant Director, Dept of Geology and Mining, Pudukkottai District vide Letter No. Rc. No. 276/2020(G&M), dated:14.09.2023.

File No	8294/2021		Category	B1
	SIA/TN/MIN/405697/2022, Dated: 07.11.2022			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Tvl.Sai Hridham Infraa (P) ltd No.208/6Muthudaiyanpatti	


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		Melur Village Sathiyamangalam Post Pudukkottai District-622501			
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel		
3.	S.F Nos. of the quarry site with area break-up	:	80/3, 80/4, 80/5, 80/6, 80/17 & 80/19		
4.	Village in which situated	:	Melur		
5.	Taluk in which situated	:	Kulathur		
6.	District in which situated	:	Pudukkottai		
7.	Extent of quarry (in ha.)	:	1.68.0Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	10°26' 55.62"N to 10°27'00.28"N 78°46'22.24"E to 78°46'29.02"E		
9.	Topo Sheet No.	:	58-J/15		
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		
			Rough Stone	Weathered Rock	Gravel
	Geological Resources m ³	:	5,67,525m ³	26,220m ³	52,440 m ³
	Mineable Resources m ³	:	1,53,150m ³	16,632m ³	39,900 m ³
	Annual Peak Production in m ³	:	36,050m ³	6,552m ³	17,100 m ³
	Ultimate Depth in meters	:	46m BGL		
13.	Depth of water table	:	68m in summer season - 63m in Rainy season		
14.	Man Power requirement per day:	:	19 Employees		
15.	Water requirement:		3.88 KLD		
	1. Drinking water & Utilized water	:	0.70 KLD		
	2. Dust suppression	:	2.7 KLD		
	3. Green belt	:	0.48 KLD		


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16.	Power requirement	TNEB : 1,03,708 liters of HSD for the entire period of life			
17.	Precise area communication approved by the Deputy Director, Department of G&M.	Rc.No. 276/2020 (G&M), : dated:17.11.2020			
18.	Mining Plan approved by Deputy director, Department of G&M.	Rc.No. 276/2020 (G&M), : dated:04.01.2021			
19.	500m Cluster Letter approved by Deputy Director, Department of G&M,	Rc.No. 276/2020(G&M), : dated:06.01.2021.			
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated: 15.12.2020			
21.	Project Cost (excluding EMP cost)	: Rs.29,98,000/-			
22.	EC Recommendation	: Validity	30 years subject to the following upper limits.		
			Rough Stone	Weather ed Rock	Gravel
		: Max Total in m ³	1,51,000 m ³	16,632 m ³	39,900 m ³
		: Annual Max in m ³	36,050 m ³	6,552 m ³	17,100 m ³
	: Ultimate Depth in mtrs	41m BGL			
23.	EMP cost (in Rs. Lakh).	: Rs.107 Lakhs			
24.	CER cost (in Rs. Lakh).	: Rs.5 Lakhs			
25.	EIA report submitted on	: Dated:11.11.2022			
26.	ToR details	: Lr.No:SEIAA-TN/F.No.8294/SEAC/ToR-960/2021,Dated: 30.04.2021.			
27.	Public hearing details	: Public hearing conducted on Dated:04.05.2022.			



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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 36,050m³ of Rough stone & 17,100m³ of Gravel by maintaining the ultimate depth of mining up to 41m 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 not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the 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. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
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 walls within a period of one year from the commencement of mining operations for evaluating the slope stabilization & protective measures at the ultimate pit limits, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be 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. 5 Lakhs and the amount shall be spent for the activities as committed towards Government Primary School, Nakkeervayal Village before obtaining CTO from TNPCB.

Agenda No: 419 – TA 01.

(File No: 10281/2023)

Proposed Rough stone quarry lease over an extent of 2.00.0Ha (Govt. Poramboke Land - Tender Quarry) in S.F. No:481/2 (Part-1), Musuvanoothu Village, Nilakottai Taluk, Dindigul District, Tamil Nadu by Mr.M.Bose - For Environmental Clearance. (SIA/TN/MIN/434052/2023 Dt.15.07.2023)

The proposal was placed for appraisal in 419th meeting of SEAC held on 01.11.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:



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1. The project proponent, Mr.M.Bose has applied for Environmental Clearance for the Rough stone quarry lease over an extent of 2.00.0Ha in S.F.No:481/2 (Part-1), Musuvanoothu Village, Nilakottai Taluk, Dindigul District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 5 Years. The approved mining plan is for the period of five years & production should not exceed 233885 m3 of Rough Stone & 21830 m3 of Topsoil. The annual peak production is 53000 m3 of Rough Stone (5th Year). The depth of mining is 65m (60m AGL & 5m BGL).
4. Earlier the proposal was placed in 413th SEAC meeting held on 05.10.2023. Based on the presentation and documents furnished by the project proponent, SEAC noticed that the proposed lease area consists of dense flora and fauna and is close to reserve forest. Hence, the Committee decided to constitute a sub-committee to make on-site inspection to assess the environmental aspects the proposed project.

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Letter No. SEAC- TN/10281/Site Inspection/2023 dated:5.10.2023. Based on Minutes of the 413th SEAC Meeting, held on 05.10.2023, to inspect and study the field condition for the proposal seeking EC for the proposed Rough stone quarry lease over an extent of 2.00.0Ha (Govt. Poramboke Land - Tender Quarry) in S.F. No:481/2 (Part-1), Musuvanoothu Village, Nilakottai Taluk, Dindigul District, Tamil Nadu. The Committee comprised of Shri. D. Narasimhan, Member, SEAC.

The Sub Committee report was placed in 419th SEAC meeting held on 01.11.2023 and note that Proponent agreed that the lease area consists of dense flora and fauna in the granted lease area. The same was inferred in 610th SEIAA minutes for the File no: 9284. So the Dept of Geology and Mining gave alternate site for mining. The PP submitted a fresh application to "The Authority" and the previous application no: 9284 was withdrawn by the proponent.


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The Project Proponent, Thiru. M. Bose has applied for Environmental Clearance for the proposed Rough stone Quarry for an extent of Two Ha in SF No S. F. No: 481/2 (Part-1) Government Land at Musuvanoothu Village, Nilakottai Taluk, Dindigul District.

- The Entire lease area is apportioned from Government Reserve Land, which is an isolated hillock with a thorny vegetation.
- The project area is covered under under "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification.2006.
- This is an alternate site given for Mining to the Proponent by the Department of Geology and Mining as the previous site allotted to Proponent had a rich and dense Flora.
- Based on the Presentation, SEAC decided to make an onsite inspection by the sub-committee constituted by the SEAC to assess the present status of the Vegetation of proposed project and bio-diversity.

INSPECTION PROCEEDINGS


A subcommittee comprising Dr. D. NARASIMHAN, Member, SEAC – TN was constituted by SEAC to inspect and study the field condition of the proposal seeking EC for the proposed rough stone, and gravel quarry on 14.10.2023 vide Letter No. SEAC-TN/10281/Site Inspection/2023 dated:5.10.2023

OBSERVATIONS OF THE SUB-COMMITTEE

- This is an alternate site allotted for Mining and applied for a fresh lease to the extent of ONE Ha in the Government Revenue land. An adjacent area of the hillock is allotted to a different proponent for mining in which the mining has commenced
- The Mining Plan approves a total Production of 23885 m³ with a peak production of 5300 m³ for 60m above ground level and 5 m below ground level.
- The project site is located between 10°7'23.44"N - 10° 7'28.60"N and 77°49'36.51"E - 77°49'43.78"E. The site is surrounded by dry agricultural lands (Punjai) devoid of crops.
- There are no structures within 500 m radius.


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- Vegetation of the site belongs to Southern Tropical Thorn Forest, a type common in the lower elevation of hills and hillocks from Madurai onwards.
- Local enquiries have revealed that the site was areal- seeded primarily with seeds of *Vachellia planifrons* (*Udai Maram*), a native thorny tree of Southern Tamil Nadu. This species is predominant in Southern Tamil Nadu as well as extensively planted on Dry hills and sandy places.
- There are adjacent hills which are also with similar vegetation.
- Apart from *V. planifrons*, the following thorny trees were noted in the Field:

Commiphora berryi (Mullu Kiluvai)

Dalbergia horrida

Vachellia leucophloea (Vel Veylam)

Wrightia tinctoria (Veppalai)

Dichrostachys cinerea (Vidadhalan)

These species make up the vegetation of the site.

RECOMMENDATIONS OF THE SUB COMMITTEE

1. The Subcommittee observed that the aforesaid site has been opened up already and hence the quarrying operation in the proposed site will not affect any new environmental settings.
2. Since vegetation is common all over the Dry Regions of Southern TN, mining in this area will not lead to any major species loss.
3. It is also recommended to carry out the quarrying operations from top to downwards in the hillock by keeping the benches of adequate dimension intact such that the stability of slope is ensured at all the time.
4. It has been observed that since this proposed quarrying necessitates safe operation, the PP shall appoint mandatorily the statutory Mines Manager possessing I Class or II Class certificate of competency issued under MMR'1961 and the other competent persons such as Mine Foreman/Mine Mate, Blaster under the provisions of Mines Act, 1952.
5. It is recommended that the proponent shall leave at least 2 m width of the green cover of the existing vegetation intact as part of Green Belt.


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Where gaps exist, can be filled with planting of the same species as they seem to be the most suitable species for the proposed area.

6. Since the mining site is at the lower half of the hillock, a garland drainage is to be provided for the safe draining of the rain water.
7. A fence surrounding the mine needs to be erected.

The subcommittee opines the proposal for the grant of Environmental Clearance for proposed quarry covering the lease of Two Ha in SF No S. F. No: 481/2 (Part-I) Government Land at Musuvanoothu Village, Nilakottai Taluk, Dindigul District, Tamil Nadu, may be considered for Environmental clearance.

SEAC RECOMMENDATIONS

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 53,000 m³ of Rough stone by maintaining the ultimate depth of mining up to 65m (60m AGL + 5m 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 not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
3. Since few structures and R.F are situated at a distance of 200m, & 150 m respectively, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations after obtaining the prior permission from the DMS, Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting


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operations carried out in the 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. Since the R.F is located at a distance of 150m, the PP shall implement the Special Mitigation Measures for the quarries located adjacent to the Reserve Forests as indicated in the Annexure-I without deviation.

5. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.

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 during the 3rd year from the commencement of mining operations for evaluating the slope stabilization & protective measures at the ultimate pit limits, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be 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. 5 Lakhs and the amount shall be spent for the activities as committed towards CER for Govt Kallar Middle School – Musuvanoothu 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.


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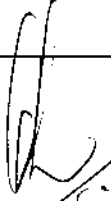

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GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

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.


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

IRC Guidelines with respect to complying with traffic congestion and density.

14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are 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


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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.


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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.


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- 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.



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- 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.


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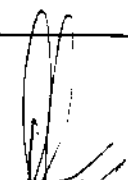
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SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WINDMILLS

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.
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.
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.
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.
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.
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.


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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.


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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.
 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


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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.


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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


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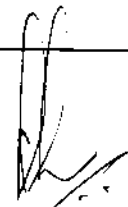
design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

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.


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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.


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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.


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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.


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Appendix - I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	வில்வம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாளை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Parai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொண்டை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொண்டை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	பூசா மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூளி
18	<i>Creteva adansoni</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காலை
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amplissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றாப்பூசா
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயிலி
27	<i>Lannea coromandelica</i>	Odhiam	ஒடியம்
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	பின்பட்டை, பிசிப்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பழை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழாமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	ஈசைமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malipoovarasu	மலை பூஞ்சை
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்டாங்கு
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	மணிப்புகன் சோபுகாய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தாங்கு கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்திரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தா வேம்பு
58	<i>Thespesia populnea</i>	Purvarasu	பூஞ்சை
59	<i>Walsuratrifoliata</i>	valsura	வால்சூரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பூசி


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Appendix -III

Display Board

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

சுரங்கம்

சுரங்கங்களில் குவார்டி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்ட வழங்குபெட்டியை SEAW, தேலிபெட்டியை, சுற்றுச்சூழல் அனுமதி தேதி வரை செயல்படுத்தக்கூடாது உருது

பாணம் பகுதி வளர்ச்சி செயல்பாடுக்கான அங்கத்திட்டம்	குவார்டியின் எல்லைமீறாத சுற்றுமேல் அமைக்க வேண்டும்
	அங்கப்பகுதியின் ஆழம் தரப்பட்டிருந்து பின்பு பின்பு இருக்க வேண்டும். அதில் பாச ஏற்படாதவாறு அங்கப் பாசத்தை வெற்றிக்க வேண்டும்.
நட்பெட்டி புறங்குக்களில் செயல்பாடுகள் எடுக்கக்கூடாது:	வாகனங்கள் செல்லும் பாதையில் பாச ஏற்படாத அளவிற்கு தனித்தனியே முதுகாய்களில் வாகனங்கள் செல்லும் அளவுக்கு கட்டுவதற்கு கட்டுவதற்கு வேண்டும்.
	இருக்கின்ற அளவுகளை நேரிடாமல் கட்டுவதற்கு கட்டுவதற்கு கட்டுவதற்கு வேண்டும்.
அங்கத்தின் மேல், கைப்பிடிப்பு திட்டத்தின் ஏற்படாதவாறு மற்றும் அதன் புறங்குக்களில் பாசப்படி நடவடிக்கைகளை உடனடியாக செயல்படுத்தப்பட வேண்டும்.	
அங்கத்தின் இருப்பு ஏற்படும் இடத்தில் அளவு 05 மீட்டர்கள் (5M) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.	
அங்க எட்டி விசை மீட்டர் சுற்றுச்சூழல் உட்கட்டி பாசத்திற்கு தகுந்த முதுகாய்கள் அளவிற்கு வளக்கட்டுவதற்கு கட்டுவதற்கு கட்டுவதற்கு வேண்டும்.	
சுரங்கம் அல்லது பகுதியில் வளக்கட்டுவதற்கு கட்டுவதற்கு கட்டுவதற்கு வேண்டும்.	
அங்கப்பகுதியில் அளவிற்கு உட்கட்டி பாசத்திற்கு மற்றும் கட்டுவதற்கு கட்டுவதற்கு வேண்டும்.	
நிபந்தனைகளை பின்பற்றும் கட்டுவதற்கு கட்டுவதற்கு கட்டுவதற்கு வேண்டும்.	
அங்கத்தின்கீழே கைப்பிடிப்பு கட்டுவதற்கு கட்டுவதற்கு கட்டுவதற்கு வேண்டும்.	
பாசப்பகுதியில் மற்றும் சுற்றுச்சூழல் பாசத்திற்கு கட்டுவதற்கு கட்டுவதற்கு வேண்டும்.	
அங்கப்பகுதியின் முதுகாய்களில் கட்டுவதற்கு கட்டுவதற்கு கட்டுவதற்கு வேண்டும்.	
அங்க நடவடிக்கைகளை முதுகாய்களில் கட்டுவதற்கு கட்டுவதற்கு கட்டுவதற்கு வேண்டும்.	
அங்க நடவடிக்கைகளை முதுகாய்களில் கட்டுவதற்கு கட்டுவதற்கு கட்டுவதற்கு வேண்டும்.	
முதுகாய்களை நிபந்தனைகளை அளவிற்கு கட்டுவதற்கு கட்டுவதற்கு கட்டுவதற்கு வேண்டும்.	


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