

State Expert Appraisal Committee (SEAC)

Minutes of 421st meeting of the State Expert Appraisal Committee (SEAC) held on 08.11.2023 (Wednesday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Mining projects and Synthetic Organic Chemicals projects.

Confirmation of Earlier Minutes

The minutes of the 420th SEAC meeting held on 02.11.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 421 - 01

(File No: 9899/2023)

Existing Rough Stone quarry over an extent of 3.95.0 Ha in SF.No. 281/2 at Chettikurichi Village, Kayathar Taluk, Thoothukudi District, Tamil Nadu by Thiru. S. Maheswaran - Environmental Clearance for next scheme of mining.


(SIA/TN/MIN/421387/2023 Dt.09.03.2023)

The project proposal was earlier placed in the 378th meeting of SEAC held on 09.05.2023 and the SEAC furnished its recommendation for the grant of Environmental Environmental Clearance subject to the conditions stated therein. Subsequently the subject was placed in the 624th meeting of Authority held on 01.06.2023. The Authority directed the Project Proponent to furnish the following details/documents:

1. Latest copy of certified compliance report issued by the Competent Authority.
2. Impact of project activity on agriculture, biodiversity, flora and fauna, nearby water bodies and ground water.
3. KML file demarcating the boundary of mine lease area.

On receipt of the aforesaid details/documents the subject shall be referred back to SEAC. Hence the subject was taken up for discussion in the 404th meeting of SEAC held on 25.08.2023 and the PP along with the EIA coordinator made a presentation on the details sought. The SEAC noted that the PP has obtained compliance report for the existing quarry certified by the DEE, TNPCB.


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However, the SEAC had observed the MoEF & CC Circular No. J-11013/6/2010-1A.II (Part), Dated 07.09.2017. OM No. F. No. IA3-22/10/2022-1A.III [E 1772581], Dated: 08.06.2022, which states that

"....Now it has been decided that in order to get the certified compliance report on time, the Member Secretary of the sectoral Expert Appraisal Committee (EAC) shall make a request to the concerned Regional office of the Ministry..."


".....In case, the CCR is not issued within three months, the project proponent shall approach concerned Regional Offices of Central Pollution Control Board (CPCB) or MS of respective State Pollution Control Boards (SPCB) or State Pollution Control Committees (SPCCs) for the same....."

After detailed discussions, the SEAC have asked the PP to obtain the certified compliance report on the existing EC issued by the IRO, MoEF & CC, Chennai.

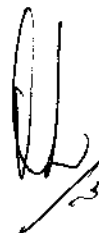
On receipt of the same, the SEAC will further deliberate and decide on future course of action.

Now the subject was placed in this 421st meeting of SEAC held on 07.11.2023. The PP informed the SEAC that the IRO, MoEF & CC Chennai has been requested vide letter dated 30.08.2023 for the CCR pertaining to the Environmental Clearance issued vide SEIAA Lr. No.SEIAA-TN/F.NO.2644/EC/1(a)/1592/2014 dated 11.02.2015.

However, the SEAC noted that the Member Secretary, TNPCB vide Lr.No. T1/TNPCB/F.020679/ROUGHSTONE/COMPLIANCE/ 2023 dated 05.10.2023 has forwarded the CCR pertaining to the Environmental Clearance issued to this quarry vide SEIAA Lr. No.SEIAA-TN/F.NO.2644/EC/1(a)/1592/2014 dated 11.02.2015 furnished by the DEE, TNPCB Thoothukudi District. Further, the SEAC noted that as this is not an expansion category, as there is undue delay in obtaining CCR from IRO of late and as the PP has submitted CCR obtained from TNPCB, SEAC decided to reiterate the recommendations of SEAC furnished vide the minutes of 378th meeting of SEAC held on 09.05.2023.


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Agenda No: 421 - 02

(File No: 7724/2022)

Proposed Rough Stone and Gravel Quarry Project over an extent of 1.03.5 Ha at S.F.No. 648 in Edirkottai Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Thiru.S.Jacob Rajamani - for Environmental Clearance. (SIA/TN/MIN/ 82045 /2020 Dated 09.08.2022)

The project proposal was earlier placed in the 349th meeting of SEAC held on 20.01.2023 and the SEAC furnished its recommendation for the grant of Environmental Clearance subject to the conditions stated therein.

Subsequently the subject was earlier placed in the 594th meeting of Authority held on 18.02.2023. The Authority noted that public complaints have been received against the proposed project after the appraisal of the subject by the SEAC. Hence SEIAA, after detailed discussions decided to call for the following particulars/clarifications:

1. In the KML file, two roads are seen running across and through the mine lease area. Hence the Member Secretary, SEIAA may obtain and furnish remarks on the public complaint from the District Collector, Virudhunagar.
2. The proponent shall furnish details of the roads mentioned in the public complaint and impact of mining on people and gazing animals.

As directed by the Authority, letter was addressed to the District Collector, Virudhunagar calling for remarks on the public complaint against the proposed quarry. Now the PP has furnished the AD/Mines letter dated 05.05.2023 addressed to the Member Secretary, SEIAA TN and hence the subject was placed in the 623rd meeting of Authority held on 30.05.2023. After detailed discussions, the Authority decided to refer back the subject to SEAC for reappraisal as the public complaint dated 03.02.2023 against the proposed quarry was received after the appraisal of the project proposal by SEAC in its 349th meeting of SEAC held on 20.01.2023.

Hence the subject was taken up for discussion in the 404th meeting of SEAC held on 25.08.2023. The SEAC carefully examined the reply furnished by the PP and the AD/Mines letter dated 05.05.2023 in this regard. After detailed discussions the SEAC decided to call for a detailed traffic study on the cart road which traverses through the proposed mine lease area. On receipt of the same, the SEAC will further deliberate and


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decide on future course of action.

The PP has now furnished the details sought by SEAC and hence the subject was placed in this 421st meeting of the SEAC held on 07.11.2023. The EIA coordinator made a presentation on the traffic study made on the cart road where a comprehensive field investigation report has been furnished by him and it has been observed from the report that

"....From the traffic survey and the discussion with the locals the following points emerge:

- ✓ *This cart track is a panchayat road.*
- ✓ *This cart track is of 2.5 to 3 m wide kutcha road, poorly maintained and used only by the surrounding crusher units and quarries.*
- ✓ *Either side of the cart track near the lease area is already fenced*
- ✓ *Traffic in this cart track is very less and the consolidated detail is given below:*

Transport Route From Ettakapatti Village to Lakshimpuram							
Details and no of vehicles passing through this route during the study period							
Buses	Trucks	Motor Vehicle	Tractor & Trailer	LCV	Car /Jeep	Auto	TOTAL No
0	4	12	10	0	2	0	28

- (i) *Only vehicles pertaining to the nearby quarries and crushers are using this route.*
- (ii) *This cart track not the main movement route of the Ettakapatti or lakshmipuram villagers.*
- (iii) *The Ettakapatti village on the north and Lakshmipuram village in the south is well connected by other main road namely Major district Road 683 connecting Sattur - Rajapalayam in the north of the lease area, pucca village road connecting lakshmipuram K. Lakshmipuram to Kangaraseval Main Road with the interconnecting road. Only these roads are used by the locals....."*

"....Besides, the following additional mitigative measures will be carried out during the course of mining operation apart from the measures give in the EIA/ EMP report:

- (i) *Baffle wall of 4ft high will be constructed along the cart track in the lease as a protective structure.*
- (ii) *Besides, safety zone between the road and the mine will be covered with tin sheet also....."*

Based on the above, the SEAC held detailed discussions and decided to reiterate the recommendations of SEAC furnished vide the minutes of 349th meeting of SEAC held on 20.01.2023.


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Agenda No: 421 - 03

(File No: 10163/2023)

Existing Rough stone and Gravel Quarry lease over an extent of 1.00.0 Ha at S.F.No.614/1B(Part) in Manjanaickenpatti village, Kadavur Taluk, Karur District, Tamil Nadu by Mr.T.Karthik - Environment Clearance for next scheme of mining. (SIA/TN/MIN/434182/2023 dt 22.06.2023)


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

1. The Project Proponent, Mr.T.Karthik has applied seeking Environment Clearance for the existing Rough stone and Gravel Quarry lease for next scheme of mining over an extent of 1.00.0 Ha at S.F.No.614/1B(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. SEIAA EC. Lr. No. SEIAA-TN/F.No. 4044/1(a)/EC No. 3859/2015 dated 31.05.2017 dated 31.05.2017
4. CCR obtained from IRO(SZ), MoEF&CC vide Lr. No.EP/12.1/2023-24/SEIAA/49/TN/879 dated 21.07.2023
5. DD/Mines has reported presence of existing pit with dimensions of 12m (L) x 10m (W) x 3m (D) at the project site.

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


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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.
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.

Now the PP has furnished the details sought by SEAC and hence the subject was placed in this 421st meeting of SEAC held on 07.11.2023. The Project Proponent made a detailed presentation on the proposal.

1. The SEAC noted that DD/Mines vide letter dated 26.09.2023 has reported that that no quarrying was carried out in the last 5 years in the mine lease area and no transport permit has been issued after execution of lease on 07.02.2018.
2. DFO vide letter dated 09.10.2023 has reported that the Kadavur Slender Loris Wild Life Sanctuary is located at a distance of 14.5 km from the mine lease area.

File No	10163	Category	B2
	SIA/TN/MIN/434182/2023 dt 22.06.2023		
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Mr.T. Karthik, S/o. Thangarasu, D.No.1/2-48A, Nathamedu, Athur Village, Manmangalam 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	:	614/1B(Part)


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4.	Village in which situated	:	Manjanaickenpatty	
5.	Taluk in which situated	:	Kadavur	
6.	District in which situated	:	Karur	
7.	Extent of quarry (in ha.)	:	1.00.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°47'42.08"N to 10°47'47.03"N 78°10'18.30"E to 78°10'21.48"E	
9.	Topo Sheet No.	:	58-J/01	
10.	Type of mining	:	Opencast Manual 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 - 250125 m ³ Gravel - 30015 m ³	-
	Minal Resources in m ³ (RoM)	:	Rough Stone - 42785 m ³ Gravel - 12837 m ³	-
	Annual Peak Production in m ³	:	Rough Stone - 3720 m ³	-
	Maximum Depth in meters	:	28m BGL	
13.	Depth of water table	:	55-60m	
14.	Man Power requirement per day:	:	13Nos.	
15.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression , Green Belt & Wet Drilling (in KLD)	:	3.75 kLD 1.75 kLD 1.0 kLD 1.0 kLD	
16.	Power requirement	:	TNEB & 17749 litres of HSD for DG Set	
17.	Precise area communication approved by the Dept. of Geology & Mining	:	Rc.No.620/ Mines/2022 Dated:03.05.2023	
18.	Mining Plan approved by Dept. of Geology & Mining	:	Rc.No.620/ Mines/2022 Dated:25.05.2023	
19.	500m Cluster Letter issued by the Dept. of Geology & Mining	:	Rc.No.620/ Mines/2022 Dated:08.06.2023	


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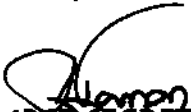

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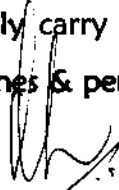
20.	VAO Certificate regarding Structures within 300m Radius		Letter Dated 13.06.2023
21.	Project Cost (excluding EMP cost)	:	Rs.23.93 Lakh
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Rough Stone Gravel
		:	Annual Max RoM in m ³
			3720 -
		:	Max Depth in m
			28m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.14.18 Lakh Recurring cost – Rs. 1.76 Lakh + 5% of inflation cost every year
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 3720 m³ of Rough stone by maintaining the ultimate depth of mining of 28m 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.
- 3) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds before obtaining the CTO from the TNPCB.

- 4) The PP shall not carry out the drilling and blasting operations at any point of time during the lease period and it shall be ensured during the field inspection & recorded in a bound paged book maintained for the purpose by the concerned AD (Mines) without deviation.
- 5) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6) Since the mining operations are planned to be carried out manually, the PP shall impart the Vocational Training on safety & health aspects for the persons employed in the mine at the Mine Vocational Training Centre (TNMSA), Trichy before executing the lease and a copy of successful completion certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Compliance without any deviation.
- i) The proponent shall conduct the Safety Audit following the DGMS Guidelines laid for the purposes vide DGMS (Tech) S&T Circular No. 5 of 2016, during the 3rd year of quarrying operation to detect any unsafe condition/practice prevalent in the mine to ensure the health and safety of the workers employed, 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) Due to the manual mining operation, the Proponent shall annually carry out an Occupational Health Survey (OHS) in accordance with the guidelines & period of


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examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations(NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation

- 8) As accepted by the Project Proponent the CER cost of Rs.5.0 lakh and the amount shall be spent for the following committed activities at Panchayat Union Middle School, Veeriyapatti before obtaining CTO from TNPCB.

Description	CER Cost INR
Painting for building	2,00,000/-
Compound wall	1,00,000/-
Environmental related library books and racks	30,000/-
Plantation in school Ground	30,000/-
Toilet Maintenance	1,40,000/-
Total	Rs. 5,00,000/-

Agenda No. 421 - 04:

(File No. 6444/2019)

Existing Pandapuli & Thenmalai limestone mining lease over an extent of 7.55.5 Ha at S.F.No. 25/1-4, 26/2A, 2B, 26/3, 27/1A6, 29/1, 135/1, 1156/1-3, 4A Pandapuli & Thenmalai Village, Sankarankovil Taluk, Tirunelveli District by M/s. Tamil Nadu Cements Corporation Ltd, Chennai under Activity 1(a) – Mining of major mineral – ToR to be issued under violation notification dated: 14.03.2017 & 14.03.2018 of MoEF & CC. (SIA/TN/MIN/67784/2017 Dated: 30.08.2017)

The proposal was placed in the 421st SEAC Meeting held on 07.11.2023. The project proponent gave detailed presentation. The salient features of the project as presented by the proponent are as follows:


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1. The Proponent M/s. Tamil Nadu Cements Corporation Ltd, Chennai has applied for ToR for the Existing Pandapuli & Thenmalai limestone mining lease over an extent of 7.55.5 Ha at S.F.No. 25/1-4, 26/2A, 2B, 26/3, 27/1A6, 29/1, 135/1, 1156/1-3, 4A Pandapuli & Thenmalai Village, Sankarankovil Taluk, Tirunelveli District, Tamil Nadu on 30.08.2017.
2. The Ministry of Environment, Forest and Climate Change (MoEF&CC) Notification S.O. 804 (E) dated 14.03.2017 has stated that the cases of violations will be dealt strictly as per the procedure specified in the following manner:

“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 Expert Appraisal Committee and Environmental Clearance will be granted at the Central Level”.
3. Accordingly it was informed that the application for seeking Environmental Clearance after starting activity without prior EC for Existing Pandapuli & Thenmalai limestone mining lease over an extent of 7.55.5 Ha at S.F.No. 25/1-4, 26/2A, 2B, 26/3, 27/1A6, 29/1, 135/1, 1156/1-3, 4A Pandapuli & Thenmalai Village, Sankarankovil Taluk, Tirunelveli District, could not be processed at SEIAA-TN and the proponent was requested to submit the proposal to MoEF&CC for Environmental Clearance stating the violations.
4. The MoEF&CC notification S.O.1030 (E) dated 08.03.2018 has stated that the cases of violations projects or activities covered under category A of the Schedule to the EIA Notification, 2006, including expansion and modernization of existing projects or activities and change in product mix, shall be appraised for grant of Environmental Clearance by the EAC in the Ministry and the Environmental Clearance shall be granted at Central level, and for category B projects, the

appraisal and approval thereof shall vest with the State or Union territory level Expert Appraisal Committees and State or Union territory Environment Impact Assessment Authorities in different States and Union territories, constituted under sub-section (3) of section 3 of the Environment (Protection) Act, 1986.

5. The MoEF&CC office memorandum No. F.No. Z-11013/22/2017-IA. II(M) dated: 15.03.2018 have issued the following guidelines regarding implementation of Notification S.O.1030 (E)

- i. The proposals received up to 13th September, 2017 on the Ministry's portal, shall be considered by the EAC or the SEAC / SEIAA in the respective States / UTs, as the case may be, in the order of their submission.
- ii. All the proposals of category 'B' projects / activities pertaining to different sectors, received within six months only i.e., up to 13th September, 2017 on the Ministry's portal, but yet not considered by the EAC in the Ministry, shall be transferred online to the SEAC / SEIAAs in the respective States / UTs.
- iii. The proposals submitted directly for considering of EC (in place of ToR), shall also be considered on the same lines, in order of their submission on the Ministry's portal.
- iv. All the projects of category 'B' pertaining of different sectors, although considered by the EAC in the Ministry and accorded ToR, shall be appraised for grant of EC by the SEAC / SEIAA in the respective States / UTs.
- v. All projects / activities of all sectors, shall be required to adhere to the directions of Hon'ble Madras High Court vide order dated 13th October, 2017 while upholding the Ministry's Notification dated 14th March, 2017.

6. The MoEF&CC office memorandum No. F.No. Z-11013/22/2017-IA. II(M) dated: 16.03.2018 has issued the following directions regarding compliance of directions of Hon'ble Madras High Court order dated 14th March, 2018 in WMP Nos.3361, 3362 & 3721 of 2018 in WP.No.11189 of 2017.

1. The project proponent, who have not submitted the proposals within six months window i.e up to 13th September, 2017 in pursuance of the


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ministry's notifications.O.804(E) dated 14.03.2017, are required to submit the proposals within 30 days, to the EAC for category A projects or the SEAC/SEIAA in the respective States/UTs for category B projects.


2. The project proponent, who have submitted the proposals on the Ministry's portal after 13th September, 2017 are also required to submit the proposals within 30 days, to the EAC for category A projects or the SEAC/SEIAA in the respective States/UTs for category B projects
7. In view of the above directions, the project proponent, who have submitted the proposals within the stipulated time on 12.04.2018 i.e up to 15th April, 2018 in pursuance of the MoEF&CC office memorandum No. F.No.Z-11013/22/2017-IA. II(M) dated: 16.03.2018, has submitted the details of the proposal to the O/o SEIAA-TN for obtaining specific Terms of Reference for Existing Pandapuli & Thenmalai limestone mining lease over an extent of 7.55.5 Ha at S.F.No. 25/1-4, 26/2A, 2B, 26/3, 27/1A6, 29/1, 135/1, 1156/1-3, 4A Pandapuli & Thenmalai Village, Sankarankovil Taluk, Tirunelveli District.
8. Earlier, the proposal was placed in the 128th SEAC Meeting held on 15.04.2019. The project proponent made a presentation about the project proposal and informed that:
 - (i) The Government of Tamil Nadu has granted Existing Pandapuli & Thenmalai limestone mining lease over an extent of 7.55.5 Ha at S.F.No. 25/1-4, 26/2A, 2B, 26/3, 27/1A6, 29/1, 135/1, 1156/1-3, 4A Pandapuli & Thenmalai Village, Sankarankovil Taluk, Tirunelveli District Tamil Nadu State vide G.O. No. 3(D) No.107/IND MMD-2 Dept dated: 11.07.1997 for a period of 5 years. The lease deed was executed on 11.01.1998.
 - (ii) As per the section 8A (5) of new MMDR Amendment Act 2015, the validity of this lease is deemed to be extended till 31.03.2030.
 - (iii) The mining plan was prepared and approved by IBM vide letter No.TN/TNL/MP/LST-1491-SZ Dated: 21.10.2003 for renewal of mining lease.
 - (iv) The first scheme of mining (2009-10 to 2013-14) was approved by IBM vide letter No.TN/TNL/LST/MS-842 MDS, Dated: 03.05.2013.

- (v) Latest scheme of mining plan (2014-15 to 2018-19) is being prepared and submitted to IBM vide letter No.TN/TNL/LST/M5-1136-MDS, Dated: 16.01.2015.
- (vi) Meanwhile, the MoEF& CC has directed that "the mine leases which continue to operate without obtaining EC after 15.01.2016 shall be considered as violation cases and the same shall be dealt with in accordance with the violation policy under Environmental Impact Assessment Notification, 2006 as amended" vide MoEF & CC letter No. Z-11013/24/2017-IA. II(M), dated. 03.04.2017. Hence, this is a violation project.
- (vii) Now, as per MoEF & CC notification dated: 14.03.2017, Form – I, ToR and feasibility report is submitted to MOEF & CC, Delhi for prescribing Proposed excavation in five years:
Lime stone – 15000 Tonnes
Rejects – 12361 Tonnes
Top Soil – 7563 Tonnes
- (viii) The area is marked in the Survey of India Topo sheet No. 58-G/11. The area lies in the Eastern Longitude of 77° 23' 74" - 77° 33' 1.28" and Northern Latitude of 09° 19' 23.75" - 09° 19' 44.18".
- (ix) The lease area does not include any forest land. No ecologically sensitive features like national parks, biospheres, sanctuaries, elephant corridors, Tiger reserves, flight paths of migrating fauna, etc occur in core & buffer areas of the project. The area does not come under CRZ category. There is no any litigation pending against the project or land. No state boundary or national boundaries falls.
- (x) The method of mining is fully Opencast Mechanized mining method.
- (xi) The total water requirement is about 6.5KLD, comprising 1 KLD for domestic purpose, 2.5 KLD for dust suppression and 3 KLD for green belt development. Total water required for the mine will be supply by tanker.
(Private contractor)

- (xii) The total cost of the project is Rs. 65 Lakhs. Mines office and other facilities already exist. Total manpower required will be 12 persons on direct basis.

The project attracts violation as per MoEF & CC gazette notification S.O No 804 (E) Dated 14.03.2017.

- i. The project proponent has submitted the documents regarding the particulars of the lease and mining working. It was observed that mine was in operation without obtaining Environmental Clearance. As the case above stands affirmative, the project is being granted Terms of Reference for undertaking Environmental Impact Assessment and preparation of EMP. The SEAC recommends the Terms of Reference for the project for 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, 1986, accredited by NABET or a laboratory of Council of Scientific and Industrial research Institutions working in the field of environment. Three months data relating to the ecological parameters is to be submitted with analysis.
- ii. The project proponent besides above has to also submit the Affidavit/ 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. The amounts so payable to the state government for the Lime stone would inter-alia, account for the mining operation in violation of the following: -
 - Without Environmental Clearance (EC) or in excess of quantity approved in EC.


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- Without consent to Operate (CTO) or in excess of quantity approved in CTO.
- Without mining plan/scheme of mining or in excess of quantity approved in mining plan/scheme of mining.
- Without forest clearance
- Any other violation.

The SEAC has noted that the project proponent has presented the details/value were mixed up with the details /value of some other quarries. Hence, the SEAC has decided the proponent is requested to re- present before the SEAC with the correct details in respect of the aforesaid quarry.

Now the proposal was again placed in 421st SEAC meeting held on 07.11.2023. Both the EIA coordinator and the project proponent were absent during the meeting. Hence the subject was not taken up for appraisal and committee decided that the project proponent shall furnish the reason for his absence.

Agenda No: 421-05

(File No.9519/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 3.76.0 Ha at S.F.Nos. 480/1A, 1B, 2, 3, 484/3, 490/1A, 1B, 2B, 491/1A, 3A, 3B, 3C & 4D of Pakkam Village, Madhuranthagam Taluk, Chengalpattu District, Tamil Nadu by Thiru. V. Chandran – For Environmental Clearance (SIA/TN/MIN/447354/2023 dated; 07.10.2023)

The proposal was placed in the 421st meeting of SEAC held on 08.11.2023. 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. V. Chandran has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry lease over an extent of 3.76.0 Ha at S.F.Nos. 480/1A, 1B, 2, 3, 484/3, 490/1A, 1B, 2B, 491/1A, 3A, 3B, 3C & 4D of Pakkam Village, Madhuranthagam Taluk, Chengalpattu 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.


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3. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9519/SEAC/ToR-1357/2023 dated.09.02.2023 with a condition that the proponent shall obtain NBWL Clearance since Vedanthangal Birds Sanctuary is situated near the project site.
4. However, the PP has furnished the reason for not obtaining NBWL clearance and submitted a letter from the PCCF vide Ref.No.WL5/3767/2023 dated:15.02.2023.
5. The Baseline Monitoring was done during the period Dec 2022 to Feb 2023.
6. The Public Hearing was held on 17.08.2023.
7. The EIA Report was submitted on 11.10.2023.
8. The other salient features of the proposal are as follows:

File No		9519/2023 447354/2023	Category	B1 1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. V. Chandran, S/o. V. Vengatesan, No.167, Thalpathi Nagar, Chinna Vinjiyampakkam, Singaperumal Koil, Chengelpet Taluk, Chengalpet District – 603204.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	480/1A, 1B, 2, 3, 484/3, 490/1A, 1B, 2B, 491/1A, 3A, 3B, 3C & 4D	
4.	Village in which situated	:	Pakkam	
5.	Taluk in which situated	:	Madhuranthagam	
6.	District in which situated	:	Chengalpattu	
7.	Extent of quarry (in ha.)	:	3.76.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°28'33.23"N to 12°28'43.08"N 79°50'52.12"E to 79°51'07.58"E	
9.	Topo Sheet No.	:	57 P/15	
10.	Type of mining	:	Opencast Mechanized Mining Method	
11.	Life of Project	:	10 years	
	Lease Period	:	10 years	
	Mining Plan Period	:	10 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- 15,04,000m ³	-
		:	Weathered rock- 75,200m ³	-
		:	Gravel - 37,600m ³	-
	Mina ble Resources m ³ (RoM)	:	Rough Stone- 8,81,720m ³	Rough Stone - 6,99,960m ³
		:	Weathered rock- 57,846m ³	-
		:	Gravel - 29,613m ³	-
	Annual Peak Production in m ³	:	Rough Stone- 1,21,410m ³	Rough Stone- 96,550m ³
		:	Weathered rock- 20,776m ³	-
		:	Gravel - 10,700m ³	-
	Maximum Depth in meters	:	43 m BGL	33 m BGL
13.	Depth of water table	:	55 - 60m	
14.	Man Power requirement per day:	:	50 Nos.	
15.	Water requirement: 1. Dust Suppression 2. Green belt Development 3. Domestic Use	:	3.0 KLD 1.0 KLD 1.0 KLD 1.0 KLD	
16.	Power requirement	:	6,16,356 Liters of HSD for the entire project life	
17.	Precise area communication approved by the Assistant Director, Dept. of Geology & Mining	:	Rc.No.227/Q2/2019, Dated:23.08.2021.	
18.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining	:	Rc.No.227/Q2/2019, Dated:14.09.2021.	
19.	500m cluster letter issued by the Assistant Director, Dept. of Geology & Mining	:	Rc.No.227/Q2/2019, Dated:14.09.2021	

20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 17.09.2021.
21.	Project Cost (excluding EMP cost)	:	Rs. 1,50,54,000/-
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Gravel - 29,613m ³
		:	Annual Max RoM in m ³
			Rough Stone- 96,550m ³ Weathered rock- 20,776m ³ Gravel - 10,700m ³
		:	Ultimate Depth in mtrs
			33m BGL
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 40,13,200/- Recurring Cost – Rs. 22,12,768/-
24.	CER cost (in Rs. Lakhs).	:	Rs. 10,00,000 /-

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 96,550m³ of Rough stone, 20,776m³ of weathered rock and 10,700m³ of gravel by restricting the ultimate depth of mining up to 33m below ground level and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF &CC, in addition to the following specific conditions:

- 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 install the garland drainage with siltation tank around the mine lease area leading to the Eri situated nearby with proper gradient shall be completed before execution of the mine lease.
- 3) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting

excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.

- 4) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 5) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters initially for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations subsequently with proper validation of the design through trial blasts in the proposed quarry after obtaining the prior permission from the DMS / Chennai Region, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6) 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.
- 7) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing

quarry wall during the 4th year or the depth of quarry touches 30 m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 8) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of one year from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 9) The PP shall install an embankment with having bottom width of not less than 1.5 m and height of not less than 2 m along the Eri for preventing the inadvertent entry of water to the quarry, before the execution of the lease.
- 10) The PP shall take necessary steps to amalgamate both contiguous leases/pits after the lease execution by obtaining the necessary permission from the DMS/Chennai and the AD (Mines).
- 11) As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and it shall be spent for the activities as committed towards the Panchayat Union Primary School, Pakkam Village, Madhuranthakam Taluk, Chengalpattu District before obtaining CTO from TNPCB.
- 12) In addition to the above, proponent shall remit Rs.5 lakhs for the conservation measures towards Vedanthangal Birds Sanctuary in consultation with the concerned DFO and the same shall be included in EMP.

Agenda No: 421-06

(File No.8685/2023)

Revised application for the Proposed Rough Stone Quarry Lease over an extent of 3.38.9 Ha at S.F.Nos. 236/1A, 236/1B, 236/1C, 236/1D, 236/1E, 236/2, 236/3, 236/4, 236/5, 236/6, 236/7, 236/9, 19/3(Part), 235/9B & 235/11 of Panampatti Village, Illuppur Taluk, Pudukkottai District, Tamil Nadu by Tvl. Om Shri Vari Stones Pvt. Ltd. - For Environmental Clearance. (SIA/TN/MIN/440270/2023 dated:14.08.2023)

The proposal was placed in this 421st Meeting of SEAC held on 08.11.2023. 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, Tvl. Om Shri Vari Stones Pvt. Ltd has applied for Environmental Clearance for the Proposed Rough Stone Quarry Lease over a revised extent of 3.38.9 Ha at S.F.Nos. 236/1A, 236/1B, 236/1C, 236/1D, 236/1E, 236/2, 236/3, 236/4, 236/5, 236/6, 236/7, 236/9, 19/3(Part), 235/9B & 235/11 of Panampatti Village, Illuppur Taluk, Pudukkottai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.8685/SEAC/ToR-1044/2022 dtaed.31.01.2022.
4. Public Hearing was conducted on 08.06.2023.
5. Earlier, the proposal was placed for appraisal in 411th SEAC meeting held on 27.09.2023.

From the KML file uploaded by the proponent in the PARIVESH Portal, it was ascertained that a portion of the applied area was mined out recently.

The Proponent claimed that having their office at Chennai, they were unable to visit their site frequently. In this situation the adjacent quarry lease holder Thiru. M. Ramesh having lease over an extent of 2.86.0 Ha in S.F. No 11/1 & 11/2B (Lease period 09.03.2017 to 08.03.2022) situated adjacent to their site on the Southern side encroached in their quarry site.

Accordingly, the proponent has submitted a revised mining plan for an area of 3.38.9 Ha.


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

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

6. On receipt of a clarification provided by the competent authority and the corresponding reply submitted by the proponent, the proposal was again placed in this 421st SEAC meeting.

7. The reply given by the proponent is as follows:

S.No	Query	Reply				
1	Whether there was any encroachment into the proposed quarry site by the neighboring quarry operation and if so	<p>The project area is encroached by the adjacent Lease holder Thiru. M. Ramesh S/o. Muthukaruppan.</p> <p>Proponent obtained Letter from the AD (Mines) regarding the penalty letter for the encroachment to the Existing quarry owner (M.Ramesh) vide Letter No 33/2021 Dated 25.10.2023</p> <p>REMARKS:</p> <p>Proponent Revised the mining plan after leaving the S.F. No 236/10, 11, 12, 13, 14 & 19/3 (P) (Broken up area) and got approval vide Rc. No. 33/2021 (G&M) Dated 21.09.2023.</p>				
2	Whether any penalty was levied for illegal mining and if not whether any penalty has been	<p>Penalty imposed on the Lessee Thiru. M. Ramesh S/o. Muthukaruppan Details are as follows:</p> <table><tr><th>Details</th><th>Description</th></tr><tr><td>Penalty amount for Rough stone</td><td>4,34,25,600/-</td></tr></table>	Details	Description	Penalty amount for Rough stone	4,34,25,600/-
Details	Description					
Penalty amount for Rough stone	4,34,25,600/-					

imposed on the pp	Penalty amount for Gravel	51,52,872/-
	Total Penalty amount	4,85,78,472/-

Reference: RDO letter proceedings No
1/7727/2023 Dated 16.10.2023

8. The other salient features of the proposal are as follows:

File No		8685/2023 440270/2023	Category	B1 1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Tvl. Om Shri Vari Stones Pvt.Ltd., No.24/2 (11/2), Raja Street Extension, Mandaveli, Chennai – 600 028.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	236/1A, 236/1B, 236/1C, 236/1D, 236/1E, 236/2, 236/3, 236/4, 236/5, 236/6, 236/7, 236/9, 19/3(Part), 235/9B & 235/11	
4.	Village in which situated	:	Panampatti	
5.	Taluk in which situated	:	Illuppur	
6.	District in which situated	:	Pudukkottai	
7.	Extent of quarry (in ha.)	:	3.38.9 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°25'29.4962"N to 10°25'36.3073"N 78°46'07.2733"E to 78°46'18.0794"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	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone- 10,16,700m ³	-
		:	Weathered rock- 67,780m ³	-
		:	Top soil – 1,01,670m ³	-

	Minable Resources m ³ (RoM)	: Rough Stone- 3,59,525m ³	Rough Stone- 3,56,225m ³
		: Weathered rock- 49,570m ³	-
		: Top soil – 74,355m ³	-
	Annual Peak Production in m ³	: Rough Stone- 78,915m ³	-
		: Weathered rock- 19,092m ³	-
		: Top soil – 28,638m ³	-
	Maximum Depth in meters	: 35m BGL	-
13.	Depth of water table	: 65 – 70 m	
14.	Man Power requirement per day:	: 46 Nos.	
15.	Water requirement: 1. Dust Suppression 2. Green belt Development 3. Domestic Use	: 5.0 KLD 2.5 KLD 1.0 KLD 1.5 KLD	
16.	Power requirement	: 4,06,386 litres of HSD for the entire project life	
17.	Precise area communication approved by the Deputy Director, Dept. of Geology & Mining.	: Rc.No.33/2021(G&M), Dated:23.02.2021.	
18.	Revised Mining Plan approved by Assistant Director, Dept. of Geology & Mining.	: Rc.No.32/2021(G&M), Dated:21.09.2023.	
19.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining.	: Rc.No.32/2021(G&M), Dated:28.04.2021.	
20.	VAO Certificate Regarding Structures within 300m Radius	: VAO letter dated. 21.04.2021.	
21.	Project Cost (excluding EMP cost)	: Rs. 75,30,000/-	
22.	EC Recommendation	: Validity	30 years subject to the following upper limits.
		: Rough Stone-	


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		Annual Max RoM in m ³	78.915m ³ Weathered rock- 19.092m ³ Top soil – 28.638m ³
		Ultimate Depth in mtrs	35m BGL
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 45,21,030 /- Recurring Cost – Rs. 24,44,913/-
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 78,915m³ of Rough stone, 19,092m³ of weathered rock and 28,638m³ of top soil by restricting the ultimate depth of mining up to 35m below ground level and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF &CC, in addition to the following specific conditions:

- 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) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 3) The PP shall install the garland drainage with siltation tank around the mine lease area leading to the Eri situated nearby with proper gradient shall be completed before execution of the mine lease.
- 4) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.

- 5) The PP shall 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 500 m, the PP shall carry out the scientific studies within a period of one year from the commencement of quarrying operations, to design the controlled blast parameters initially for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations subsequently with proper validation of the design through trial blasts in the proposed quarry after obtaining the prior permission from the DMS / Chennai Region, 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) 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 the depth of quarry touches 30 m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of one year from the date of lease execution, by involving any one of the reputed

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

- 9) The PP shall take necessary steps to amalgamate both contiguous leases/pits after the lease execution by obtaining the necessary permission from the DMS/Chennai and the AD (Mines).
- 10) As accepted by the Project Proponent the CER cost is Rs. 10 Lakhs and it shall be spent for the activities including the construction of an auditorium & smart class as committed towards the Government Higher Secondary School, Marudhanthalai, Pudukkottai District before obtaining CTO from TNPCB.

Agenda No: 421- 07

(File No: 9253/2022)

Proposed Rough Stone quarry lease over an extent of 2.40.0Ha at SF.No. 232/2 (PART) of Mugalur Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. R.V Enterprises - For Environmental Clearance. (SIA/TN/MIN/448334/2023, Dated:10.10.2023)

The proposal was placed in 421st meeting of SEAC held on 08.11.2023. 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, M/s. R.V Enterprises has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 2.40.0Ha at SF.No. 232/2 (PART) of Mugalur Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR Issued Vide - Lr.No.SEIAA-TN/F.No.9253/ToR-1202/2022, Dated:14.07.2022.


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4. Public hearing conducted on Dated:08.08.2023.

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

1. The PP shall furnish scientific study on the effects of mining activities on agricultural activities - including carrot cultivation - around 1km of the proposed area by involving the Department of Environment, Tamil Nadu Agricultural University, Coimbatore.
2. The PP shall furnish a special report on details of houses within a radius of 500 m and the damages – if any - caused by blasting activity.
3. The PP shall submit a comprehensive report on impacts due to the mining operation carried out by the cluster of mines on the surrounding environmental settings as raised during the Public Hearing and stipulate the proper remedial actions with EMP budget allocation correspondingly.
4. The PP shall carry out the scientific studies to assess the hydrogeological condition of the site and to submit a hydrogeological report indicating the impacts due to quarrying operation on the groundwater and the required Groundwater Management Programme, 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.
5. The PP shall submit the controlled blast design for the proposed quarrying operation and the mitigation measures to eliminate the flyrock and to control the blast-induced ground / air vibrations (Noise).

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


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Agenda No: 421- 08

(File No: 9499/2022)

Proposed Rough Stone quarry lease over an extent of 2.00.0Ha at SF.No. 86(PART-3) of Venkatesapuram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. S.R. Enterprises - For Environmental Clearance. (SIA/TN/MIN/444263/2023, Dated:14.09.2023)

The proposal was placed in 421st meeting of SEAC held on 08.11.2023. 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, M/s.S.R.Enterprises has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 2.00.0Ha at SF.No. 86(PART-3) of Venkatesapuram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The PP furnished "Existing Pit Dimension Letter" vide Roc.No.546/2022/Mines dated 24.06.2022 obtained from the Competent Authority stating that, as per available records the pit is age old pit quarried unlawfully and the necessary action has already been initiated against Thiru. Gopal for the aforementioned illicit quarrying carried out in Govt land SF.No.86(Part-3) of Venkatesapuram Village.

File No	9499/2022		Category	B1
	SIA/TN/MIN/444263/2023, Dated:14.09.2023			
Sl.No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s. S.R.Enterprises D.No: 25, Shanthi Nagar, West 2nd Cross, Hosur Taluk, Krishnagiri - 635 109	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone quarry	
3.	S.F Nos. of the quarry site with area break-up	:	86(PART-3)	
4.	Village in which situated	:	Venkatesapuram	


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5.	Taluk in which situated	:	Shoolagiri
6.	District in which situated	:	Krishnagiri
7.	Extent of quarry (in ha.)	:	2.00.00Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°45' 19.41"N to 12°45'14.07"N 77°56'40.17"E to 77°56'34.69"E
9.	Topo Sheet No.	:	57-H/14
10.	Type of mining	:	Opencast semi mechanized mining
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
			Rough Stone Topsoil (Gravel)
	Geological Resources m ³	:	6,91,920m ³ 40,176m ³
	Minable Resources m ³	:	4,06,265m ³ 38,740m ³
	Annual Peak Production in m ³	:	1,12,935m ³ 38,740m ³
	Ultimate Depth in meters	:	42m (10m AGL + 32m BGL)
13.	Depth of water table	:	95m BGL
14.	Man Power requirement per day	:	18 Employees
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD
16.	Power requirement	:	TNEB 4,41,848 liters of HSD for the Entire Period of life
17.	Precise area communication approved by the District Collector, Department of G&M.	:	Rc.No. 546/2022/Mines, dated:04.05.2022.
18.	Mining Plan approved by Deputy director, Department of G&M.	:	Rc.No. 546/2022/Mines, dated:29.06.2022.
19.	500m Cluster Letter approved by Deputy director, Department of G&M,	:	Roc.No. 546/2022/Mines, dated:29.06.2022.
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 02.09.2022.
21.	Project Cost (excluding EMP cost)	:	Rs. 3,55,90,000/-
22.	EC Recommendation	:	Validity 30 years subject to the following upper limits. Rough Stone Topsoil (Gravel)



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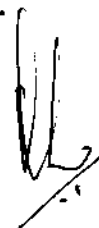
		:	Max Total in m ³	4.06.265m ³	38,740m ³
		:	Annual Max in m ³	1,12,935m ³	38,740m ³
		:	Ultimate Depth in mtrs	42m (10m AGL + 32m BGL)	
23.	EMP cost (in Rs. Lakh).	:	Rs.64,23,074		
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs		
25.	EIA report submitted on	:	Dated:14.09.2023		
26.	ToR details	:	Lr.No:SEIAA-TN/E.No.9499/ToR-1309/2022,Dated:07.12.2022.		
27.	Public hearing details	:	Public hearing conducted on Dated:12.07.2023.		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 1,12,935m³ of Rough stone & 38,740m³ of Topsoil (Gravel) by maintaining the ultimate depth of mining up to 42m (10m AGL + 32m BGL) and subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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 mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
3. The PP shall adhere to the special mitigation measures as the proposed quarry is located within 1 km from the reserve forests as stipulated in the Annexure.



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4. The PP shall not employ any external agency for carrying out the blasting operation in the quarries and he shall also install the temporary (or) permanent magazine approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
5. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in a cluster environment, in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
6. Since the structures/habitations are situated within a radial distance of 500 m in a cluster environment, the PP shall carry out the scientific studies within a period of one year from the commencement of quarrying operations, to design the controlled blast parameters initially for reducing the blast-induced ground/air-vibrations and eliminating the fly rock from the blasting operations subsequently with proper validation of the design through trial blasts in the proposed quarry after obtaining the prior permission from the DMS / Chennai Region, 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. As a part of monitoring the implementation of eco-friendly blasting operation in a cluster environment, the PP shall regularly monitor the blast-induced ground vibrations by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m and 500 m near the permanent structures 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 /


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Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.

8. The PP shall carry out the quarrying operation from top to downwards through formation of benches with safety bunds by maintaining the haul road of permitted gradient under the supervision of statutory competent persons.
9. However, for the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry walls in a hilly terrain within a period of six months from the commencement of mining operations for evaluating the slope stabilization & protective measures while designing the proposed benches, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government High School, Venkatesapuram Village before obtaining CTO from TNPCB.

Agenda No: 421- 09

(File No: 9506/2022)

Proposed Rough Stone quarry lease over an extent of 2.50.00Ha at SF.No. 86(PART-1) of Venkatesapuram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu Thiru.

A. Brian Balachander - For Environmental Clearance. (SIA/TN/MIN/443517/2023, Dated:08.09.2023)

The proposal was placed in 421st meeting of SEAC held on 08.11.2023. 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.A.Brian Balachander has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 2.50.00Ha at SF.No. 86(PART-1) of Venkatesapuram Village, Shoolagiri Taluk, Krishnagiri


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District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

File No	9506/2022		Category	B1												
	SIA/TN/MIN/443517/2023, Dated:08.09.2023															
Sl.No	Salient Features of the Proposal															
1.	Name of the Owner/Firm	:	Thiru.A.Brian Balachander S/o. Antony Richard Bhaskar D.No.2/29, 1st Main Road, Padi,Tiruvallur Chennai 600 050.													
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone quarry													
3.	S.F Nos. of the quarry site with area break-up	:	86(PART-1)													
4.	Village in which situated	:	Venkatesapuram													
5.	Taluk in which situated	:	Shoolagiri													
6.	District in which situated	:	Krishnagiri													
7.	Extent of quarry (in ha.)	:	2.50.00Ha													
8.	Latitude & Longitude of all corners of the quarry site	:	12°45' 20.45"N to 12°45'19.85"N 77°56'43.17"E to 77°56'37.03"E													
9.	Topo Sheet No.	:	57-H/14													
10.	Type of mining	:	Opencast semi mechanized mining													
11.	Life of Project	:	5 years													
	Lease Period	:	5 years													
	Mining Plan Period	:	5 years													
12.	Mining Plan Details	:	<table border="1"> <tr> <th colspan="2">Rough Stone</th> <th colspan="2">Topsoil (Gravel)</th> </tr> <tr> <th>As per approved Mining Plan</th> <th>Modified Mining Plan as suggested by SEAC</th> <th>As per approved Mining Plan</th> <th>As per Modified Mining Plan</th> </tr> <tr> <td>6,36,755m³</td> <td></td> <td>16,356 m³</td> <td></td> </tr> </table>		Rough Stone		Topsoil (Gravel)		As per approved Mining Plan	Modified Mining Plan as suggested by SEAC	As per approved Mining Plan	As per Modified Mining Plan	6,36,755m ³		16,356 m ³	
	Rough Stone		Topsoil (Gravel)													
As per approved Mining Plan	Modified Mining Plan as suggested by SEAC	As per approved Mining Plan	As per Modified Mining Plan													
6,36,755m ³		16,356 m ³														
	Geological Resources m ³	:	<table border="1"> <tr> <th colspan="2">Rough Stone</th> <th colspan="2">Topsoil (Gravel)</th> </tr> <tr> <th>As per approved Mining Plan</th> <th>Modified Mining Plan as suggested by SEAC</th> <th>As per approved Mining Plan</th> <th>As per Modified Mining Plan</th> </tr> <tr> <td>6,36,755m³</td> <td></td> <td>16,356 m³</td> <td></td> </tr> </table>		Rough Stone		Topsoil (Gravel)		As per approved Mining Plan	Modified Mining Plan as suggested by SEAC	As per approved Mining Plan	As per Modified Mining Plan	6,36,755m ³		16,356 m ³	
Rough Stone		Topsoil (Gravel)														
As per approved Mining Plan	Modified Mining Plan as suggested by SEAC	As per approved Mining Plan	As per Modified Mining Plan													
6,36,755m ³		16,356 m ³														

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	Minable Resources m ³	:	2,48,290m ³	2,23,340 m ³	9,600 m ³	9,600 m ³
	Annual Peak Production in m ³	:	62,515m ³	62,515 m ³	9,600 m ³	9,600 m ³
	Ultimate Depth in meters	:	42m (12m AGL + 30m BGL)			
13.	Depth of water table	:	95m BGL			
14.	Man Power requirement per day	:	18 Employees			
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD			
16.	Power requirement	:	TNEB 2,94,366 liters of HSD for the Entire Period of life			
17.	Precise area communication approved by the District Collector, Department of G&M.	:	Rc.No. 544/2022/Mines, dated:04.05.2022.			
18.	Mining Plan approved by Deputy director, Department of G&M.	:	Rc.No.544/2022/Mines, dated:20.06.2022.			
19.	500m Cluster Letter approved by Deputy director, Department of G&M,	:	Roc.No.544/2022/Mines, dated:20.06.2022.			
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Furnished Dated: Nil.			
21.	Project Cost (excluding EMP cost)	:	Rs.4,13,00,000/-			
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.		
				Rough Stone	Top soil (Gravel)	
		:	Max Total in m ³	2,48,290 m ³	9,600m ³	
		:	Annual Max in m ³	62,515m ³	9,600m ³	
		:	Ultimate Depth in mtrs	42m (12m AGL + 30m BGL)		
23.	EMP cost (in Rs. Lakh).	:	Rs.67,52,927			
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs			

25.	EIA report submitted on	:	Dated:08.09.2023
26.	ToR details	:	Lr.No:SEIAATN/F.No.9506/ToR-1310/2022,Dated:07.12.2022.
27.	Public hearing details	:	Public hearing conducted on Dated:28.06.2023.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 62,515m³ of Rough stone & 9,600m³ of Topsoil (Gravel) by maintaining the ultimate depth of mining up to 42m (12m AGL + 30m BGL) and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall produce the Modified Mining Plan for the revised Mineable quantity of Rough stone of 2,23,340 m³ and the Topsoil (Gravel) of 9,600 m³ for the plan period of 5 years along with the corresponding Plan and Sections to facilitate the safety berm of 10 m at the ultimate pit level in the top bench for ensuring safety aspects where the highwall of more than 5 m exists and it shall be duly approved by the concerned AD (Mines) at the time of lease execution.
3. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
4. The PP shall adhere to the special mitigation measures as the proposed quarry is located within 1 km from the reserve forests as stipulated in the Annexure.
5. The PP shall not employ any external agency for carrying out the blasting operation in the quarries and he shall also install the temporary (or) permanent

magazine 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. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in a cluster environment, in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
7. 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 initially for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations, and subsequently with proper validation of the design through trial blasts in the proposed quarry after obtaining the prior permission from the DMS / Chennai Region in accordance with DGMS Circular No. 7 of 1997, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
8. As a part of monitoring the implementation of eco-friendly blasting operation in a cluster environment, the PP shall regularly monitor the blast-induced ground vibrations by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m and 500 m near the permanent structures 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.

9. The PP shall carry out the quarrying operation from top to downwards through formation of benches with safety bunds by maintaining the haul road of permitted gradient under the supervision of statutory competent persons.
10. However, for the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry walls in a hilly terrain within a period of six months from the commencement of mining operations for evaluating the slope stabilization & protective measures while designing the proposed benches, 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.
11. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government High School, Venkatesapuram Village before obtaining CTO from TNPCB.

Agenda No: 421 - 10

File.No.9738/2023

Proposed Expansion of TATA Electronics Private Limited (Manufacturing & Assembly of metal case for mobile phones - 3 Lakh No's/Day) with total built-up area of 5,57,470 Sq. m located at SF. Nos: 312/1E, 312/2A, 324/1A, 324/2D, 324/2B, 324/2C, 312/2D2, 323/3, 326/1A, 327/1C, 326/1C, 311/1B, 311/1C, 312/1C, 312/2D1, 313/3F, 312/1A, 312/1B, 312/1d, 313/4A, 322/2B, 313/1E, 313/3C, 313/3D, 313/1C, 313/3B, 313/1C, 322/3A, 322/3C, 313/1A, 313/3A, 313/1B, 313/3E, 313/1F, 322/1A, 322/1B, 322/2A, 313/3G, 313/4B, 322/1D, 320/1, 320/3C, 321/1C, 320/3A, 321/1A, 322/2E, 324/2C, 320/3B, 321/1B, 320/A, 321/3, 323/1, 322/2C, 322/2D, 322/3B, 322/3E, 322/3F, 324/2A, 322/3G, 324/2B, 323/2, 324/3, 325/1A, 325/1B, 325/2, 313/1D, 326/1B, 327/1F, 326/1D, 326/1E, 327/1E, 309/2D, 316/1D, 314/3A3, 314/1B, 314/1A, 314/3A1, 315/5, 308/1A, 308/1C, 319/1B, 308/1B, 308/2, 309/1A, 309/1B, 309/2B, 309/2A, 311/1E, 314/3A2, 309/2C, 311/1D, 309/2E, 310/1A, 310/1B, 310/1C, 310/2, 311/1A,


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311/1F, 311/3B, 311/3A, 311/3C, 314/3B, 317/1D, 317/1E, 315/3, 315/1A, 315/1D, 315/4A, 315/4B, 316/1E, 316/2B, 316/2C, 316/2D, 316/31, 316/3B, 316/3C, 316/3F, 317/1C, 317/2A1, 317/2A3, 317/2B, 319/1A, 315/1B, 315/1C, 316/1A, 316/1B, 316/2A, 316/3G, 318/1A, 318/1B, 318/1C, 318/2, 318/3A, 318/3B, 315/1E, 315/4C, 316/1F, 316/3D, 317/1B, 315/4D, 316/1C, 317/1A, 317/2A2, 317/2A4, 317/2A5, 314/1B1, 13/4A1(P), 13/5A1, 13/5A2(P), 14/1A, 14/1B, 14/1C(P), 14/2A, 14/2B, 14/2C, 14/2D, 14/3A, 14/3B, 14/3C(P), 14/3D(P), 15/1A(P), 16/7A(P), 16/7B(P), 16/8(P), 17/2, 17/3A(P), 17/3B, 18/1, 18/2B, 20, 324/1B, 326/2, 327/1A, 327/1B, 327/1D, 328/2, 332/4, 21/1A, 21/1B, 21/1C, 21/1D, 21/1E, 21/1F, 21/1G1, 21/2A, 327/3, 332/2, 328/3, 328/1, 328/4, 15/6B, 13/1B, 15/5, 15/6A1, 311/2, 313/2, 314/2, 315/2, 319/2, 320/2, 321/2, 326/3, 327/2, 328/5, 332/1, 332/5 of Thimjepalli Village, 143/2A, 143/1A, 143/1B, 143/1C, 148/4A, 148/4B, 141/6, 141/4C, 141/5C, 143/2B, 143/3, 144/1, 147/1B, 147/1A, 148/3, 134/1A, 134/1B, 134/2, 135/1, 135/2, 136/1C, 136/3B, 136/3C, 136/3D, 136/4A, 136/4B, 136/4C, 141/1B, 141/1C, 141/1D, 141/4A, 141/4B, 141/5A, 141/5B, 142/1A, 142/1B, 142/1C, 142/2, 142/3, 142/4, 141/7, 148/1, 148/3A, 161/1A, 161/1B, 161/1C, 161/3, 161/4A, 161/4B, 161/5A(P), 161/5B, 161/6A, 161/6B, 161/7, 161/8, 162/1, 162/2, 170/1A, 170/1B, 171/2A1, 171/2A2, 171/2A3, 171/2A4, 171/2A5, 172/1A, 172/1B, 171/1A, 172/1C, 172/1E, 172/3, 172/5A, 173/1, 173/3, 174/1A(P), 174/1B, 174/1C, 174/1D, 174/1E, 174/1F, 174/1G, 174/2(P), 174/3, 175/1, 180/2A, 180/2B, 180/3, 181/2A, 181/2B, 183/1, 183/2, 183/3, 183/4, 100/1B, 100/1C, 100/2A1B, 100/2A2A, 98/3, 98/4, 99/2, 112/2A, 112/2B, 112/3A, 112/3B, 113/1, 113/2, 113/3, 113/4, 114/2, 114/3A, 114/3B, 137/2A, 137/2B, 137/3, 137/4A, 137/4B, 138/1, 138/2, 138/4A, 138/4B, 138/5, 138/6, 139/2, 139/3, 139/5, 139/6, 139/9, 140/2, 140/4, 144/3, 144/4, 146/2A, 146/2B, 146/3, 146/4, 150/6A, 150/6B, 151/1, 152/1, 152/2, 152/4, 155/1, 155/2, 155/3, 156/1, 156/2, 157/1, 157/2, 157/3A, 157/3B, 157/3C, 157/3D, 157/3E, 158/2B2, 138/1, 137/7, 140/3, 180/4, 137/5, 139/10, 137/6, 140/7, 139/7, 172/1D, 172/2(P), 172/4A2(P), 172/4A1, 172/5B, 172/4A3, 172/6, 172/2(P), 172/4A2(P), 172/4B, 136/2, 141/2, 146/1, 144/2, 147/2, 148/2, 150/2, 137/1, 138/3, 140/1, 149/1, 151/2, 151/3, 152/3, 172/7, 174/4, 174/5, 175/2, 180/5, 181/1, 139/1, 150/4, 150/5, 140/5, 136/1A, 136/1B, 140/6, 141/3, 141/1A, 136/3A, 139/4, 139/8, 149/2, 149/3, 150/1, 149/4A, 149/4B, 150/3 of Udedurgam Village, 1241/1B, 1241/1C, 1241/2B1, 1241/2B2, 1242/2B(P), 1242/3A2(P), 1238/1B2, 1238/1D, 1238/3A, 1238/3B, 1238/3C,

242/3A2(P), 124/3B2, 1246/6B, 1248/2 of Ayyaranpalli Village. Denkanikottai Taluk, Krishnagiri District, Tamil Nadu M/s. TATA Electronics Private Limited- For Environmental Clearance. (SIA/TN/INFRA2/444004/2023, Dated: 12.09.2023)

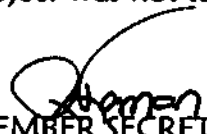
Earlier the proposal was placed in the 418th SEAC meeting held on 19.10.2023. The details of the project furnished by the proponent are available in the website. (parivesh.nic.in). The SEAC noted the following:


1. The Project Proponent, M/s. TATA Electronics Private Limited has applied for Environmental Clearance for the Proposed Expansion of TATA Electronics Private Limited (Manufacturing & Assembly of metal case for mobile phones - 3 Lakh No's/Day) with total built-up area of 5,57,470 Sq. m located at SF. Nos: 312/1E, 312/2A, 324/1A, 324/2D, 324/2B, 324/2C, 312/2D2, 323/3, 326/1A, 327/1C, 326/1C, 311/1B, 311/1C, 312/1C, 312/2D1, 313/3F, 312/1A, 312/1B, 312/1d, 313/4A, 322/2B, 313/1E, 313/3C, 313/3D, 313/1C, 313/3B, 313/1C, 322/3A, 322/3C, 313/1A, 313/3A, 313/1B, 313/3E, 313/1F, 322/1A, 322/1B, 322/2A, 313/3G, 313/4B, 322/1D, 320/1, 320/3C, 321/1C, 320/3A, 321/1A, 322/2E, 324/2C, 320/3B, 321/1B, 320/A, 321/3, 323/1, 322/2C, 322/2D, 322/3B, 322/3E, 322/3F, 324/2A, 322/3G, 324/2B, 323/2, 324/3, 325/1A, 325/1B, 325/2, 313/1D, 326/1B, 327/1F, 326/1D, 326/1E, 327/1E, 309/2D, 316/1D, 314/3A3, 314/1B, 314/1A, 314/3A1, 315/5, 308/1A, 308/1C, 319/1B, 308/1B, 308/2, 309/1A, 309/1B, 309/2B, 309/2A, 311/1E, 314/3A2, 309/2C, 311/1D, 309/2E, 310/1A, 310/1B, 310/1C, 310/2, 311/1A, 311/1F, 311/3B, 311/3A, 311/3C, 314/3B, 317/1D, 317/1E, 315/3, 315/1A, 315/1D, 315/4A, 315/4B, 316/1E, 316/2B, 316/2C, 316/2D, 316/31, 316/3B, 316/3C, 316/3F, 317/1C, 317/2A1, 317/2A3, 317/2B, 319/1A, 315/1B, 315/1C, 316/1A, 316/1B, 316/2A, 316/3G, 318/1A, 318/1B, 318/1C, 318/2, 318/3A, 318/3B, 315/1E, 315/4C, 316/1F, 316/3D, 317/1B, 315/4D, 316/1C, 317/1A, 317/2A2, 317/2A4, 317/2A5, 314/1B1, 13/4A1(P), 13/5A1, 13/5A2(P), 14/1A, 14/1B, 141/1C(P), 14/2A, 14/2B, 14/2C, 14/2D, 14/3A, 14/3B, 14/3C(P), 14/3D(P), 15/1A(P), 16/7A(P), 16/7B(P), 16/8(P), 17/2, 17/3A(P), 17/3B, 18/1, 18/2B, 20, 324/1B, 326/2, 327/1A, 327/1B, 327/1D, 328/2, 332/4, 21/1A, 21/1B, 21/1C, 21/1D, 21/1E, 21/1F, 21/1G1, 21/2A, 327/3, 332/2, 328/3, 328/1, 328/4, 15/6B, 13/1B, 15/5, 15/6A1, 311/2, 313/2, 314/2, 315/2, 319/2, 320/2, 321/2, 326/3,

327/2, 328/5, 332/1, 332/5 of Thimjepalli Village, 143/2A, 143/1A, 143/1B, 143/1C, 148/4A, 148/4B, 141/6, 141/4C, 141/5C, 143/2B, 143/3, 144/1, 147/1B, 147/1A, 148/3, 134/1A, 134/1B, 134/2, 135/1, 135/2, 136/1C, 136/3B, 136/3C, 136/3D, 136/4A, 136/4B, 136/4C, 141/1B, 141/1C, 141/1D, 141/4A, 141/4B, 141/5A, 141/5B, 142/1A, 142/1B, 142/1C, 142/2, 142/3, 142/4, 141/7, 148/1, 148/3A, 161/1A, 161/1B, 161/1C, 161/3, 161/4A, 161/4B, 161/5A(P), 161/5B, 161/6A, 161/6B, 161/7, 161/8, 162/1, 162/2, 170/1A, 170/1B, 171/2A1, 171/2A2, 171/2A3, 171/2A4, 171/2A5, 172/1A, 172/1B, 171/1A, 172/1C, 172/1E, 172/3, 172/5A, 173/1, 173/3, 174/1A(P), 174/1B, 174/1C, 174/1D, 174/1E, 174/1F, 174/1G, 174/2(P), 174/3, 175/1, 180/2A, 180/2B, 180/3, 181/2A, 181/2B, 183/1, 183/2, 183/3, 183/4, 100/1B, 100/1C, 100/2A1B, 100/2A2A, 98/3, 98/4, 99/2, 112/2A, 112/2B, 112/3A, 112/3B, 113/1, 113/2, 113/3, 113/4, 114/2, 114/3A, 114/3B, 137/2A, 137/2B, 137/3, 137/4A, 137/4B, 138/1, 138/2, 138/4A, 138/4B, 138/5, 138/6, 139/2, 139/3, 139/5, 139/6, 139/9, 140/2, 140/4, 144/3, 144/4, 146/2A, 146/2B, 146/3, 146/4, 150/6A, 150/6B, 151/1, 152/1, 152/2, 152/4, 155/1, 155/2, 155/3, 156/1, 156/2, 157/1, 157/2, 157/3A, 157/3B, 157/3C, 157/3D, 157/3E, 158/2B2, 138/1, 137/7, 140/3, 180/4, 137/5, 139/10, 137/6, 140/7, 139/7, 172/1D, 172/2(P), 172/4A2(P), 172/4A1, 172/5B, 172/4A3, 172/6, 172/2(P), 172/4A2(P), 172/4B, 136/2, 141/2, 146/1, 144/2, 147/2, 148/2, 150/2, 137/1, 138/3, 140/1, 149/1, 151/2, 151/3, 152/3, 172/7, 174/4, 174/5, 175/2, 180/5, 181/1, 139/1, 150/4, 150/5, 140/5, 136/1A, 136/1B, 140/6, 141/3, 141/1A, 136/3A, 139/4, 139/8, 149/2, 149/3, 150/1, 149/4A, 149/4B, 150/3 of Udedurgam Village, 1241/1B, 1241/1C, 1241/2B1, 1241/2B2, 1242/2B(P), 1242/3A2(P), 1238/1B2, 1238/1D, 1238/3A, 1238/3B, 1238/3C, 242/3A2(P), 124/3B2, 1246/6B, 1248/2 of Ayyaranpalli Village. Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.

2. The project activity is covered under Category "B1" of Item 8(b) "Township & Area Development projects" of the Schedule to the EIA Notification, 2006.
3. ToR Issued vide Lr.No.SEIAA-TN/F.No.9738/SEAC/8(b)/ToR-1376/2023 dated:23.02.2023.

The SEAC noted that the EIA Co-ordinator has not attended the meeting. Hence the subject was not taken up for discussion and the committee has deferred the proposal.


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Now the proposal was placed in 421st SEAC meeting held on 08.11.2023. The PP requested to defer the proposal. Hence the Committee decided to defer the proposal.

Agenda No: 421-11

(File No: 9051/2022)

Proposed Rough Stone and Gravel quarry lease area over an extent of 2.60.5 Ha at S.F.Nos. 1120/2 & 1121/2 of Bilichi Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu by Tvl. Sri Rajalakshmi Samappa Building Materials Company - For Environmental Clearance. (SIA/TN/MIN/447082/2023, Dated: 05.10.2023)

The proposal was placed for appraisal in this 421st meeting of SEAC held on 08.11.2023. 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, Tvl. Sri Rajalakshmi Samappa Building Materials Company has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 2.60.5 Ha at S.F.Nos. 1120/2 & 1121/2 of Bilichi Village, Coimbatore North Taluk, Coimbatore District.
2. The project/activity is covered under category "B" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the precise area communication letter, the lease period is 5 years and mine plan period is 5 years. As per the approved mine plan, the annual peak production shall not exceed 51,280 m³ of Rough Stone (4th year) and 15,360 m³ of Gravel (2nd year) for an ultimate depth of 37m (2m Gravel + 35m Rough Stone) BGL.
4. ToR along with Public Hearing issued vide Lr No.SEIAA-TN/F.No.9051/SEAC/ToR-1167/2022 Dated: 06.06.2022
5. Public hearing conducted on 01.08.2023
6. EIA Report submitted on 11.10.2023
7. The salient features of the proposal are as follows:

File No	9051 / 2022	Category	B / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Tvl. Sri Rajalakshmi Samappa Building Materials Company.


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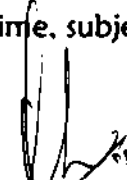
			No. 677/1A, Vellamadai, Coimbatore District - 641 110.			
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel			
3	S.F Nos. of the quarry site with area break-up	:	1120/2 & 1121/2			
4	Village in which situated	:	Bilichi			
5	Taluk in which situated	:	Coimbatore North			
6	District in which situated	:	Coimbatore			
7	Extent of quarry (in ha.)	:	2.60.5 Ha			
8	Latitude & Longitude of all corners of the quarry site	:	11°11'51.42"N to 11°12'01.24"N 76°59'38.35"E to 76°59'41.55"E			
9	Topo Sheet No.	:	58 – A/16			
10	Type of mining	:	Opencast Mechanized Mining			
11	Life of Project	:	10 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	Gravel	Rough Stone	Gravel
		9,15,950 m ³	51,136 m ³	-	-	
	Minalable Resources m ³ (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
		3,22,380 m ³	40,936 m ³	-	-	
	Annual Peak Production in m ³	:	Rough Stone	Gravel	Rough Stone	Gravel
		51,280 m ³	15,360 m ³	-	-	
Ultimate Depth in meters	:	37m (2m Gravel + 35m Rough Stone) BGL		32m (2m Gravel + 30m Rough Stone) BGL		
13	Depth of water table	:	59m-64m bgl			
14	Man Power requirement per day:	:	29 Nos.			
15	Water requirement:	:	3.0 KLD			
	1. Drinking water	:	0.6 KLD			
	2. Utilized water	:	-			

	3. Dust suppression 4. Green belt		2.0 KLD 0.4 KLD
16	Power requirement	:	2.09.396 Liters of HSD
17	Precise area communication approved by the Assistant Director, Department of G&M	:	Na.Ka.No.875/Kanimam/2021, Dated:02.12.2021
18	Mining Plan approved by the Assistant Director, Department of G&M	:	Rc.No.875/Mines/2021, Dated: 31.12.2021
19	Department of G&M. Assistant Director 500m Cluster Letter	:	Rc.No.875/Mines/2021, Dated: 31.12.2021
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 05.01.2022
21	Project Cost (excluding EMP cost)	:	Rs. 79.18.000/-
22	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Rough Stone Gravel
		:	Annual Max RoM in m ³ 51,280 m ³ 15,360 m ³
		:	Ultimate Depth in mtrs 32m (2m Gravel + 30m Rough Stone) BGL
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 27,71,350/- Recurring Cost – Rs. 15,00,130/-
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 51,280 m³ of Rough Stone and 15,360 m³ of Gravel by maintaining the ultimate depth of mining upto 32m (2m Gravel + 30m Rough Stone) BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

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


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maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.

2. The PP shall furnish the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, to the concerned AD (Mines) at the time of lease execution.
3. The PP shall not employ any external agency for carrying out the blasting operation in the proposed quarry and he shall also install the temporary (or) permanent magazine 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.
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 initially for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations, and subsequently with proper validation of the design through trial blasts in the proposed quarry after obtaining the prior permission from the DMS / Chennai Region in accordance with DGMS Circular No. 7 of 1997, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
5. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall 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 study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

6. Considering the cluster of quarries are located, the PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
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 the Panchayat Union Middle School, Onnipalayam, Periyannayakanpalayam Union, Coimbatore District, before obtaining CTO from TNPCB.

Agenda No: 421-12

(File No: 9261/2022)

Proposed Rough Stone quarry lease area over an extent of 2.50.0 Ha (Government Poramboke land) at S.F.No. 603/1 (Part-A) of Panchakshipuram Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by M/s. S.S.V Blue Metals - For Environmental Clearance. (SIA/TN/MIN/447176/2023, Dated: 09.10.2023)

The proposal was placed for appraisal in this 421st meeting of SEAC held on 08.11.2023. 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. S.S.V Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone quarry lease area over an extent of 2.50.0 Ha (Government Poramboke land) at S.F.No. 603/1 (Part-A) of Panchakshipuram Village, Hosur Taluk, Krishnagiri District.
2. The project/activity is covered under category "B" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the precise area communication letter, the lease period is 5 years and mine plan period is 5 years. As per the approved mine plan, the annual peak production shall not exceed 1,84,060 m³ of Rough Stone for an ultimate depth


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of 91m (5m AGL + 86m BGL).

4. ToR along with Public Hearing issued vide Lr No. SEIAA-TN/F.No.9261/ToR-1204/2022 Dated: 14.07.2022.
5. Public hearing conducted on 24.07.2023
6. EIA Report submitted on 13.10.2023.
7. During the appraisal, the PP has furnished an affidavit stating that the college premise situated at a distance of 430 m from the mine lease boundary is not functioning presently.
8. The salient features of the proposal are as follows:

File No	9261 / 2022	Category	B / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	M/s. S.S.V Blue Metals, Prop: Thiru. R. Rajasekaran, S/o. Ramasubbu, No.89, Thally Hudco, Hosur Taluk, Krishnagiri District - 635 109.	
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	Rough Stone	
3	S.F Nos. of the quarry site with area break-up	603/1 (Part-A)	
4	Village in which situated	Panchakshipuram	
5	Taluk in which situated	Hosur	
6	District in which situated	Krishnagiri	
7	Extent of quarry (in ha.)	2.50.0 Ha	
8	Latitude & Longitude of all corners of the quarry site	12°35'48.48"N to 12°35'56.64"N 77°47'21.61"E to 77°47'28.27"E	
9	Topo Sheet No.	57 - H/14	
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	As modified by SEAC
	Geological Resources m ³ (RoM)	Rough Stone	Rough Stone



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			24,17,380 m ³	9,68,265 m ³
	Minable Resources m ³ (RoM)	:	Rough Stone 7,57,730 m ³	Rough Stone 3,75,930 m ³
	Annual Peak Production in m ³	:	Rough Stone 1,84,060 m ³	Rough Stone 1,09,940 m ³
	Ultimate Depth in meters	:	91m (5m AGL + 86m BGL)	46m (5m AGL + 41m BGL)
13	Depth of water table	:	102m below ground level	
14	Man Power requirement per day:	:	18 Nos.	
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	2.0 KLD 1.0 KLD - 0.5 KLD 0.5 KLD	
16	Power requirement	:	6,07,548 Liters of HSD	
17	Precise area communication approved by the District Collector	:	Na.Ka.No.182/2018/Kanimam, Dated:09.03.2018	
18	Mining Plan approved by the Deputy Director, Department of G&M	:	Roc.182/2018/Mines, Dated: 20.08.2018	
19	Department of G&M, Assistant Director (Additional Charge) 500m Cluster Letter	:	Roc.No.182/2018/Mines, Dated:03.08.2021	
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter furnished	
21	Project Cost (excluding EMP cost)	:	Rs. 1,09,40,000/-	
22	EC Recommendation	:	Validity	30 years subject to the following upper limits. Rough Stone
		:	Max Total RoM in m ³	3,75,930 m ³
		:	Annual Max RoM in m ³	1,09,940 m ³
		:	Max Depth in mtrs	46m (5m AGL + 41m BGL)
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 21,17,000/- Recurring Cost – Rs. 7,99,525/-	
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 1,09,940 m³ of Rough Stone by maintaining the ultimate depth of mining upto 46m (5m AGL + 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 mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
3. 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.
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 quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF,


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

5. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
6. As a part of monitoring the implementation of eco-friendly blasting operation in a cluster environment, the PPs shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m and 500m 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.
7. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 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 study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
8. As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the activities as committed towards the Government Higher Secondary School, Machinayakanapalli, Krishnagiri District, before obtaining CTO from TNPCB.

Agenda No: 421-13

(File No: 9479/2022)

Proposed Rough Stone quarry lease area over an extent of 4.50.0 Ha (Government Poramboke land) at S.F.No. 88/1 (Part-3) of B.S.Thimmasandram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. A. Kumar - For Environmental Clearance. (SIA/TN/MIN/444180/2023, Dated: 13.09.2023)

The proposal was placed for appraisal in this 421st meeting of SEAC held on 08.11.2023. 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. Kumar has applied for Environmental Clearance for the Proposed Rough Stone quarry lease area over an extent of 4.50.0 Ha (Government Poramboke land) at S.F.No. 88/1 (Part-3) of B.S.Thimmasandram Village, Shoolagiri Taluk, Krishnagiri District.
2. The project/activity is covered under category "B" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the precise area communication letter, the lease period is 10 years and mine plan period is 10 years. As per the approved mine plan, the annual peak production shall not exceed 1,89,511 m³ of Rough Stone for an ultimate depth of 64m (16m AGL + 48m BGL).
4. ToR along with Public Hearing issued vide Lr No. SEIAA-TN/F.No.9479/SEAC/ToR-1307/2022 Dated:07.12.2022
5. Public hearing conducted on 28.06.2023
6. EIA Report submitted on 14.09.2023
7. The salient features of the proposal are as follows:

File No	9479 / 2022	Category	B / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru. A. Kumar, S/o. Arumugam, D.No.38, Athaliyur Village, Mottur Post, Uthangarai Taluk, Krishnagiri District - 635 207.


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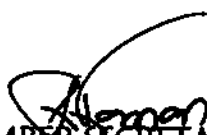

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2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone	
3	S.F Nos. of the quarry site with area break-up	:	88/1 (Part-3)	
4	Village in which situated	:	B.S.Thimmasandram	
5	Taluk in which situated	:	Shoolagiri	
6	District in which situated	:	Krishnagiri	
7	Extent of quarry (in ha.)	:	4.50.0 Ha	
8	Latitude & Longitude of all corners of the quarry site	:	12°50'37.4400"N to 12°50'26.1157"N 77°57'29.9901"E to 77°57'26.6052"E	
9	Topo Sheet No.	:	57 – H/13	
10	Type of mining	:	Opencast Mechanized Mining	
11	Life of Project	:	10 years	
	Lease Period	:	10 years	
	Mining Plan Period	:	10 years	
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m³ (RoM)	:	Rough Stone 27,53,268 m³	Rough Stone 24,02,660 m³
	Minable Resources m³ (RoM)	:	Rough Stone 13,48,816 m³	Rough Stone 10,38,650 m³
	Annual Peak Production in m³	:	Rough Stone 1,89,511 m³	Rough Stone 1,98,575 m³
	Ultimate Depth in meters	:	64m (16m AGL + 48m BGL)	56m (16m AGL + 40m BGL)
13	Depth of water table	:	70m below ground level	
14	Man Power requirement per day:	:	18 Nos.	
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.9 KLD 0.9 KLD - 0.5 KLD 0.5 KLD	
16	Power requirement	:	1085006 Liters of HSD	
17	Precise area communication approved by the District Collector	:	Na.Ka.En.547/2022/Kanimam, Dated:04.05.2022	
18	Mining Plan approved by the Deputy Director, Department of G&M	:	Rc.No.547/2022/Mines, Dated:04.07.2022	

19	Department of G&M, Deputy Director 500m Cluster Letter	:	Roc.No.547/2022/Mines, Dated:04.07.2022
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 20.08.2022
21	Project Cost (excluding EMP cost)	:	Rs. 3,38,80,000/-
22	EC Recommendation	:	Validity
		:	30 years subject to the following upper limits.
		:	Rough Stone
		:	Annual Max RoM in m ³
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 28,82,000/- Recurring Cost – Rs. 10,19,500/-
24	CER cost (in Rs. Lakh).	:	Rs. 10,00,000/-

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 1,98,575 m³ of Rough Stone by maintaining the ultimate depth of mining upto 56m (16m AGL + 40m BGL) and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

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 mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.


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3. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary (or) permanent magazine 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.
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 cumulative blasting operations carried out in a cluster environment in accordance with the DGMS Circular No. 7 of 1997, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
5. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
6. However, 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 in a hilly terrain within a period of six months from the commencement of mining operations for evaluating the slope stabilization & protective measures while designing the proposed benches, 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. Considering the cluster of quarries are located, the PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
8. The PP shall carry out the quarrying operation from top to downwards through formation of benches with safety bunds by maintaining the haul road of permitted gradient under the supervision of statutory competent persons.
9. As accepted by the Project Proponent the CER cost of Rs. 10 lakhs and the amount shall be spent for the activities as committed towards the Government High School, Kattinaickendoddi Village, Krishnagiri District, before obtaining CTO from TNPCB.

Agenda No. 421 – 14.


(File No: 10173/2023)

Existing Rough stone & Gravel quarry lease over an extent of 1.86.5Ha in S.F.No:387/A (Part), Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu by Mr.K.Pooventhiran- For Environmental Clearance. (SIA/TN/MIN/434743/2023 Dt. 27.06.2022)

Earlier, the proposal was placed in this 402nd meeting of SEAC held on 17.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. Earlier, the PP has obtained EC from SEIAA vide Lr. No. SEIAA/TN/F.No.5714/1(a)/ EC.No. 3837/2016 Dt:24.10.2016 for existing Rough stone & gravel quarry lease over an extent of 3.90.0 Ha at S.F.No:387/A & 388/1of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu for production of 262865 cu.m of Rough stone and 27796 cu.m of Topsoil and upto depth of 22m under B2 category (<25 Ha).
2. Existing Pit dimension letter by DD/ Dept. G&M vide R.C.No.629/Mines/2022


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Dt: 16.08.2023 states pit 1 no. with dimension (102m L X 70m W X 19m D).

3. Permit letter by DD/ Dept. G&M vide R.C.No.573/Mines/2022 Dt: 16.08.2023 states permit issued quantity as on date is 1500 cu.m of rough stone & remaining 2,61,365 cu.m of Rough stone.
4. CCR obtained from MoEF&CC, IRZ, SZ vide EP/12.1/2022-23/SEIAA/89/TN/1115 Dt: 03.10.2023.
5. Now, the project proponent, Mr.K.Pooventhiran has applied for Environmental Clearance for the Existing Rough stone & Gravel quarry lease over an extent of 1.86.5Ha in S.F.No:387/A (Part), Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu.
6. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006 as per 500m radius Cluster letter by DD, Dept. of G&M vide Ir. R.C.No.573/Mines/2022 Dt: 20.06.2023 (1.86.5 ha ~ B2 category).
7. The precise area communication was issued for the period of 5 Years vide Ir. R.C.No.573/Mines/2022 Dt: 10.05.2023. The approved mining plan for the period 5Years vide Ir. R.C.No.573/Mines/2022 Dt: 16.06.2023 and the production should not exceed 165581cu.m of rough stone. The annual peak production is 36458 cu.m of rough stone. The depth of mining upto 50m BGL.

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

- i. The project proponent shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures for the non-compliance stated therein.
- ii. The PP and AD/DD, Department of G&M Shall furnish reasons/justification for area reduction from 3.90.0 ha to 1.86.5 ha.
- iii. The project proponent shall obtain and furnish existing pit dimension letter from AD/DD, Department of G&M for earlier mining leases.
- iv. The AD (Mines) shall certify whether any violation has occurred in the proposed mine lease under the provisions of MMDR Act, 1957 after having a through field investigation.


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Subsequently, the proposal was placed in 653rd authority meeting held on 11.09.2023. The authority noted that the subject was appraised in the 402th SEAC meeting held on 17.08.2023. SEAC decided call for additional details stated therein. In view of the above, the authority noted the 402th SEAC meeting held on 17.08.2023.

The project proponent furnished held on 04.10.2023. In this connection, again the proposal was placed in 421st SEAC meeting held on 08.11.2023.

Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Mr.K.Pooventhiran, K. Pooventhiran, S/o. Kandasamy, Door.No.46/6, Kalipalayam, Kuppam, Pugalur Taluk, Karur District – 639111.
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	:	387/A (Part)
4.	Village in which situated	:	Kuppam
5.	Taluk in which situated	:	Pugalur
6.	District in which situated	:	Karur
7.	Extent of quarry (in ha.)	:	1.86.50Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°59'13.46"N to 10°59'19.12"N 77°57'2.94"E to 77°57'7.64"E
9.	Topo Sheet No.	:	58-F/01
10.	Type of mining	:	Opencast- Mechanized Mining
11.	Life of Project	:	5 Years
	Lease Period	:	5 Years
	Mining Plan Period	:	5 Years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³ (RoM)	:	Rough Stone in m ³ Gravel in m ³ 704564m ³ 10500m ³
	Mineable Resources m ³ (RoM)	:	Rough Stone Gravel 165581m ³ 7072m ³
	Annual Peak Production in m ³	:	Rough Stone Gravel 36458m ³ 7072m ³
	Maximum Depth in meters	:	50m (BGL)
		:	


13.	Depth of water table	:	70m- 75m		
14.	Man Power requirement per day:	:	19 Nos		
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	5.0 KLD 2.0 KLD 1.5 KLD 1.5 KLD		
16.	Power requirement	:			
17.	Precise area communication approved by District Collector: Department of G&M.	:	Rc.No.573/Mines/2022 Dated: 10.05.2023		
18.	Mining Plan approved by Deputy Director, Department of G&M.	:	Rc.No.573/Mines/2022 Dated:16.06.2023		
19.	Department of G&M, Deputy Director 500m Cluster Letter	:	Rc.No.573/Mines/2022 Dated:20.06.2023		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Dt: 26.06.2023		
21.	Project Cost (excluding EMP cost):	:	Rs. 96,26,200/-		
22.	EC Recommendation	:	As per approved mining plan		
		:		Rough Stone	Gravel
		:	Max Total RoM in m ³	165581m ³	7072m ³
		:	Annual Max RoM in m ³	36458m ³	7072m ³
		:	Max Depth in mtrs	50m (BGL)	
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 33.44 Lakhs Recurring Cost - Rs.16.36 Lakhs @ 5% inflation for every Year till life of the mine.		
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs for Panchayat Union Middle School, Karudayampalayam Village, Pugalur Taluk, Karur District.		

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 36458 m³ of Rough Stone & 7072 m³ of Gravel and the ultimate depth of mining upto 50m 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:


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- 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 mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 3) 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.
- 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 quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.


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- 6) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3rd year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 8) Considering the cluster of quarries are located, the PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 9) As accepted by the Project Proponent the CER cost of Rs.5 lakhs and the amount shall be spent for the Panchayat Union Primary School, Kadamparayanpatti Village, Pugalur Taluk, Karur District, including auditorium for Rs. 4 Lakhs before obtaining CTO from TNPCB.

Agenda No: 421 - 15

File No: 5993/2015

Proposal seeking Environmental Clearance for the proposed Construction of 3 Groynes (G1-800 m, G2-500 m & G3 (Training Wall) at Keelavaippar Village, Vilathikulam Taluk, Thoothukkudi District by the project proponent Executive Engineer, PWD/WRD Special Project Division - Environmental Clearance. (SIA/TN/MIS/31159/2015 Dt: 19.09.2015)

The SEAC noted the following:


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1. The project proponent Executive Engineer, PWD/WRD Special Project Division has applied for proposal seeking Environmental Clearance on 27.02.2016 for the proposed Construction of 3 Groynes (G1-800 m, G2-500 m & G3 (Training Wall) at Keelavaippar Village, Vilathikulam Taluk, Thoothukkudi District.
2. This proposed project falls under regulation of permissible activities in CRZ area – 4 (i) (f) - construction and operation for ports and harbours, jetties, wharves, quays, slipways, ship construction yards, breakwaters, groynes, erosion control measures.
3. Earlier, the proposal was placed in the 106th meeting held on 04.04.2018. Based on the presentation made by the proponent and the documents furnished, the SEAC decided to recommend the proposal for the grant of EC & CRZ Clearance to SEIAA subject to the certain specific conditions in addition to the normal conditions stated therein.
4. Subsequently, the proposal was placed in the 327th SEIAA meeting held on 30.07.2018 and the Authority decided to defer the proposal for further discussion. In continuation, the proposal was placed in the 328th SEIAA meeting held on 01.08.2018 and the Authority decided to defer the proposal that the Hon'ble National Green Tribunal principal bench, New Delhi, O.A.No.430 of 2018 dated 23.07.2018 stated that the process of approving the parameters of hazard line was to be finalized within 3months based on which Coastal Zone Management Plans (CZMPs) were to be finalized. All the development activities will be governed by such plans and no Environmental Clearance for any development activity in the regulated area should be granted to defeat such exercise. Timeline was laid down for submission of CZMPs i.e. April 30, 2018. The MoEF &CC has finalised the approval for the hazard line by 31.07.2018. The State Government through the Department of Environment has already submitted the report to MoEF & CC, GOI. Hence SEIAA decided to defer the proposal until such time the integrated report is approved by GOI.
5. The proposal was again placed in the 335th SEIAA meeting held on 31.12.2018 and the Authority decided to obtain the necessary clarification from District Level Coastal Zone Management Authority, Thoothukudi District regarding the current

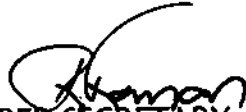
ground status of the project, whether any works executed/commenced by the PWD for the aforesaid project and also the Authority decided that further course of action on this application will be considered only after the receipt of reply received from District Level Coastal Zone Management Authority, Thoothukudi District.

6. The subject was again placed in the 648th Authority meeting held on 22.08.2023. The Authority noted that the Chairman (DLCZMA) / District Collector has furnished reply dt: 28.07.2023 received Dt: 04.08.2023 for the additional particulars sought 328th & 335th in the Authority meeting held on 01.08.2018 & 31.12.2018 stating that the works related to the some Groynes were completed and some were commenced but yet to completed. In view of the above and the MoEF&CC OM Dt: 26.04.2022, the Authority after detailed discussions, decided to refer back the proposal to SEAC.
7. Consequently, the subject was placed in the 417th SEAC meeting held on 18.10.2023. The project proponent was be absent and SEAC noted that the PP has submitted request to withdraw the application. The Committee, therefore, decided to defer this proposal and to take up in the any one of the forthcoming meetings.

This subject was again placed in the 421st SEAC meeting held on 08.11.2023. SEAC noted that during presentation the proponent has informed that the project proponent (Executive Engineer, Water Resource Department, Government of Tamil Nadu) has submitted request for withdrawal of the online proposal seeking Environmental Clearance from PARIVESH web portal vide Lr. No: AE (T)/ C40 (SPD) / 2023 / Date: 07.09.2023, since this project attracted only CRZ clearance and not Environmental Clearance. Besides, the TNSCZMA has already accorded CRZ Clearance for this proposed construction of 3 Groynes (G1 – 800 m, G2 – 500 m & G3 (Training wall – 100 m) at Keelavaippar village in Vilathikulam Taluk, Thoothukudi district vide Proc.No. P1/ 2031 / 2014 / dt.01.06.2015 as per CRZ Notification 2011.

However, the Committee noted the following

- I. Provisions contained in the CRZ Notification 2011, as follows,


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a. As per CRZ Notification, 2011 S.O. No. 19 (E) Dated: 06.01.2011, under para 4.2 – Procedure for clearance of permissible activities – which interalia states as follows

“(ii) The concerned CZMA shall examine the above documents in accordance with the approved CZMP and in compliance with CRZ notification and make recommendations within a period of sixty days from date of receipt of complete application. -

(a) MoEF or State Environmental Impact Assessment Authority (hereinafter referred to as the SEIAA) as the case may be for the project attracting EIA notification, 2006;

(b) MoEF for the projects not covered in the EIA notification, 2006 but attracting para 4(ii) of the CRZ notification;

(iii) MoEF or SEIAA shall consider such projects for clearance based on the recommendations of the concerned CZMA within a period of sixty days.

b. Subsequently, in para 4.2 - Procedure for clearance of permissible activities, an amendment was made vide Notification S.O. 3085 (E) Dated: 24.11.2014 which interalia states as follows

(3) In paragraph 4.2, in sub-paragraph (ii), after clause (b), the following clause shall be inserted, namely; -

“(c) SEIAA, for the projects specified under paragraph 4(i) (except with respect to item (d) thereof relating to building projects with less than 20,000 sq. mts of built-up area) and for the projects not attracting EIA notification, 2006”

c. Further, MoEF&CC had clarified on the implementation of projects falling in CRZ area as per para 6(i) of the CRZ Notification issued vide GSR 37 (E), dated: 18.01.2019 vide Office Memorandum - F.No. 12-7/2018-IA.III Dated: 07.06.2019 which interalia states as follows

“2. In this regard, I am directed to clarify that until the CZMPs of the coastal districts of States/ Union territories prepared and approved under the provisions of the CRZ Notification, 2011 are updated/revised under the provisions of the new CRZ Notification, 2019 issued vide GSR 37 (E), dated

18.01.2019, the provisions of this new notification shall not apply and the provisions of CRZ Notification, 2011 shall continue to be followed for appraisal and CRZ clearances of developments projects in the CRZ areas.”

- d. Besides, MoEF&CC vide O.M Dt: 26.04.2022 has notified Procedure for Clearance of Permissible Activities as per the CRZ Notification, 2011 stating that the concerned State/Union Territory Coastal Zone Management Authority (CZMA) shall examine the application submitted in Parivesh.nic.in and make recommendations as per the provisions of CRZ Notification, 2011 to the concerned authority (MoEF&CC/SEIAA) as stated therein. This proposed project attracts S.No. 5 of this O.M Dt: 26.04.2022 as follows

S. No.	Scenario as per the CRZ Notification, 2011	Clearance	Approving Authority	Procedure
5	Any project located in CRZ area that are specified under paragraph 4(i) of the CRZ Notification [except for item 4(i)(d)] and not attracting the EIA Notification, 2006	Standalone CRZ	SEIAA	Application at CZMA by the PP; ↓ Recommendation of CZMA; ↓ Application in the concerned SEIAA; ↓ Recommendation of SEAC for CRZ; ↓ Clearance by SEIAA (CRZ)

II. Judgement issued by Hon'ble National Green Tribunal Special Bench in the matter of OA No. 04/2013 with Appeal No. 18/2017 Dated: 11.04.2022

Under Para 83, which interalia states as follows


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".... We have given due consideration to the issue of protection of the beaches from human induced erosion caused by hard structures. It is a fact that these hard structures may prevent erosion at the said stretch temporarily but the adverse impact of such measures are felt upstream or downstream where erosion starts. Thereby such hard measures only transfer the problem of shoreline change until and unless a holistic study is undertaken keeping in view that sediment cells and appropriate scientific measures taking into consideration both soft and hard. The problem exhaustively highlighted by the applicant, noted above raises substantial question of environment. We are satisfied that the same needs to be addressed by all coastal States/UTs for protection of beaches from human induced erosion caused by hard structures.


...Pending preparation/updation of such SMPs by the Coastal States/UTs, no further hard structures for erosion control be raised or constructed."


Based on the above, Committee is of the opinion that

- (i) It is evident that the proposal doesn't require Environmental Clearance.
- (ii) However, as per CRZ Notification, 2011 as amended, the proposed activity attracts the provisions of para 4.2 where the project proponent must have obtained CRZ clearance from SEIAA based on the recommendations of TNCZMA.
- (iii) Further, as per the District Collector reply dt: 28.07.2023 received by O/o SEIAA Dt: 04.08.2023 for the additional particulars sought in the 328th & 335th authority meeting held on 01.08.2018 & 31.12.2018, which states that the works related to some Groynes were completed and some were commenced but yet to be completed.

In the light of the above, Committee decided to call for the following additional details.

1. As per CRZ Notification, 2011 as amended, the proposed activity attracts the provisions of para 4.2 where the project proponent must have obtained CRZ clearance from SEIAA based on the recommendations of TNCZMA. The PP


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should submit a written justification for their intention to withdraw their common application for EC and CRZ clearance.

2. The proponent shall also clarify as to whether the Coastal Zone Management Plan (CZMP) as mentioned in the order dated: 23.07.2018 has been prepared and approved for the area in question. If so, the details for the same shall be furnished.
3. If the Coastal Zone Management Plan has not been approved covering the project area, whether the provisions of CRZ Notification, 2019 can be applied to the proposed project, with reference to MoEF &CC's OM 07.06.2019.
4. PP shall clearly indicate the timeline of construction of groynes, like date of starting, completion of construction, etc.
5. PP should examine the legal implications of the Hon'ble National Green Tribunal Special Bench Order Dated: 11.04.2022 referred to above in para II.

Upon receipt of the above, further deliberation shall 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: 421-16


(File No: 8024/2020)

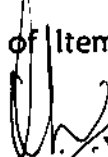
Proposed Multi Colour Granite Quarry over an Extent of 2.98.0 Ha at S.F.No. 568/1, 575/2 (P) & 621/2(P) of Subramaniapuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by M/s. Pokarna Limited -For Environmental Clearance under Violation. (SIA/TN/MIN/447017/2023, Dt: 06.10.2023).

The proposal was placed in the 321st meeting of SEAC held on 08.11.2023. 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, M/s. Pokarna Limited has applied for Environmental Clearance under violation for the Proposed Multi Colour Granite Quarry over an Extent of 2.98.0 Ha at S.F.No. 568/1, 575/2 (P) & 621/2(P) of Subramaniapuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" of Item 1(a)


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

3. The quarry lease was granted vide G.O.3(D) No. 12, Industries (MMB.2) Department Dated 25.01.2007 for a period of Twenty years. The quarry lease deed was executed on 07.03.2007 and the lease period is valid upto 06.03.2027.
4. Subsequently, Environmental clearance was obtained from SEIAA, Tamil Nadu vide Lr.No.SEIAA-TN/F.No.5160/EC/1(a)/3648/2016 dated 08.08.2016 for the Multi Colour Granite Quarry over an Extent of 2.98.0 Ha at S.F.No. 568/1, 575/2 (P) & 621/2(P) of Subramaniapuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu for the quantity of 2200 cu.m of Multi Colour Granite upto a depth of 32m for the period of 2 years.
5. Further, Environmental clearance was obtained from DEIAA, vide Lr.No.DEIAA/VNR/103/EC.No.41/2018 dated 08.12.2018 for the Multi Colour Granite Quarry over an Extent of 2.98.0 Ha at S.F.No. 568/1, 575/2 (P) & 621/2(P) of Subramaniapuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu for the quantity of 713 cu.m of Multi Colour Granite upto a depth of 32m for the period of 1 year.
6. The PP has obtained Certified Compliance Report vide Lr.No. E.P/12.1/2022-23/SEIAA/242/TN/154 dated: 30.02.2023.
7. ToR was granted vide letter. No. SEIAA-TN/F.No.8024/SEAC/ToR-1538/2023, dated: 21.08.2023.
8. EIA Report Submitted on 13.10.2023.

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

1. The PP shall revise Chapter 13 in the EIA report dealing with Environmental Compensation for the Violation Projects as per the CPCB guidelines.
2. The PP shall submit a revised EMP as indicated by the Committee.

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


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Agenda No. 421-17

(File No. 9442/2022)

Proposed Rough stone quarry over an extent of 1.60.0 Ha at S.F.No. 72(part) and 87/1(part) of Doripalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. S. Mahesh Kumar for Environmental Clearance. (SIA/TN/MIN/442954/2023, Dated:04.09.2023).

The proposal was placed in the 421st meeting of SEAC held on 08.11.2023. 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. S. Mahesh Kumar has applied for Environmental Clearance for the Proposed Rough stone quarry over an extent of 1.60.0 Ha at S.F.No. 72(part) and 87/1(part) of Doripalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years and the mining plan is for the period of 10 years. For the first 5 years, the total excavation for carrying out the development & production operations should not exceed 200256 cu.m. of Rough Stone & 22200 cu.m of Topsoil. The annual peak production is maintained at 57624 cu.m. of Rough Stone (5th Year). The ultimate depth -51 m (5m AGL + 46m BGL).
4. ToR was granted vide letter. No. SEIAA-TN/ F.No. 9442/SEAC/ToR-1291/2022, dated 28.10.2022 stipulates that

Under the Reg. 106 (2) (a) of MMR 1961 states that ".....The height of any bench shall not exceed six metres and the breadth thereof shall not be less than the height...."

In the Mining Plan submitted during the appraisal, it was shown as the bench height is 7m in the Year wise production with a bench height of 5 m. Hence, the PP shall revise the Mining Plan for a bench geometry of 5 m height with a width of not less than 5 m and accordingly the volume shall be computed. The PP shall


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submit the revised Mining Plan approved by the concerned AD (Geology & Mines) during the EIA appraisal.

5. Minutes of Public Hearing Conducted on 28.06.2023.

6. EIA Report Submitted on 05.09.2023.

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

1. The PP shall submit the revised Mining Plan duly approved by the concerned AD (Geology & Mines).

On receipt of the above details, the SEAC would further deliberate on this project and decide the further course of action. 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. 422-18

(File No.8584/2023)

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

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

1. The Proponent, Tvl. Om Shri Vari Stones Pvt Ltd., has applied for Environmental Clearance for the Proposed Rough Stone Quarry lease over an extent of 4.77.0Ha at S.F.Nos:20/1, 20/2, 270/2, 270/3, 270/4, 257/9, 257/8A & 257/10A of Panampatti Village, Illuppur Taluk, Pudukkottai District, Tamil Nadu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is 5 years. The mining plan is for the period of 5 years & production should not exceed 5,04,840 m³ of Rough Stone. The ultimate depth 45m.


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4. Precise area communication letter has been granted and the mining plan prepared and got approved by Department of Geology and Mining vide Rc.No.33/2021 (G&M), Dated: 17.03.2021 for the extent of 4.77.0 Ha
5. The Proponent applied for ToR to get Environmental Clearance in SEIAA on 06.05.2021 and ToR was granted over an extent of 4.77.0 Ha vide letter. No. SEIAA-TN/ F.No. 8584/SEAC/ToR-1028/2021, dated: 25.06.2021.
6. As per the ToR issued, the depth was restricted to 40m from 45m.
7. Minutes of Public Hearing Conducted on 08.06.2023.
8. EIA Report Submitted on 16.08.2023.
9. As per the Kml file uploaded by the PP in the online EC application, it is ascertained that the Topographical plan, google imaginary of the proposed site is varying from the documents submitted by the PP during ToR application.
10. Further, it is noted that the eastern portion of the Proposed site has been quarried after ToR issued.
11. The salient features of the proposed quarry as follows.

File No	8584	Category	1(a) – B1
	Online Proposal: SIA/TN/MIN/440374/2023 dated: 14.08.2023		EC
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Tvl. Om Shri Vari Stones Pvt., Ltd., No. 24/2 (11/2), Raja Street Ext., Mandaveli, Chennai – 600028.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone Quarry
3.	S.F Nos. of the quarry site with area break-up	:	20/1, 270/2, 270/3, 270/4, 257/9, 257/8A & 257/10A
4.	Village in which situated	:	Panampatti
5.	Taluk in which situated	:	Illuppur


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6.	District in which situated	:	Pudukkottai	
7.	Extent of quarry (in ha.)	:	4.20.0Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°25'24.89" N to 10°25'32.50"N 78°46'00.14"E to 78°46'09.85"E	
9.	Topo Sheet No.	:	58- J/15	
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- 19,08,000 m ³	Rough Stone- 19,08,000 m ³
	Minalable Resources m ³ (RoM)	:	Rough Stone - 4,59,305m ³	Rough Stone - 4,59,305m ³
	Annual Peak Production in m3	:	Rough Stone – 1,09,580 m ³	Rough Stone – 1,09,580 m ³
	Maximum Depth in meters	:	40m BGL	
13.	Depth of water table	:	65-50m below ground level	
14.	Man Power requirement per day:	:	55 Nos.	
15.	Water requirement: 1. Domestic & Drinking water 2. Dust suppression 3. Green belt		10.5 KLD 3.0 KLD 4.0 KLD 3.5 KLD	
16.	Power requirement		4,95,252 Liters of HSD	
17.	Precise area communication approved by the Assistant Director, Department of Geology and Mining	:	Rc.No.33/2021 (G&M), dated: 23.02.2021.	
18.	Mining Plan approved by Assistant Director, Department of Geology and Mining.	:	Rc.No.33/2021 (G&M), dated: 21.09.2023.	
19.	Assistant Director and Department of Geology and Mining 500m Cluster Letter		Rc.No.33/2021 (G&M), dated: 17.03.2021.	
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated: 10.04.2021	
21.	Project Cost (excluding EMP cost)	:	Rs. 106.64 Lakhs	

22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:		Rough Stone
		:	Max Total RoM in m ³	4,59,305 m ³
		:	Annual Max RoM in m ³	1,09,580 m ³
		:	Max Depth in mtrs	40m
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.4518000/- recurring cost – Rs. 2679443 /-	
24.	CER cost (in Rs. Lakh).	:	Rs. 10,00,000 /- as accepted by the PP	
25.	Tor Issued		Lr.No.SEIAA-TN/F.No. 8584/SEAC/ToR-1028/2021, dated: 25.06.2021.	
26.	Public Hearing		08.06.2023	
27.	EIA Report Submitted		16.08.2023	

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

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

On the receipt of aforesaid details, the proposal was again placed in the 421st Meeting of SEAC held on 08.11.2023. The Project proponent made a presentation along with the clarifications for the above shortcomings observed by the SEAC.

S. NO	SEAC QUERY	REPLY
1	whether there was any encroachment into the proposed quarry site by	The project area is encroached by the adjacent Lease holder Thiru. M. Ramesh S/o. Muthukaruppan.


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	the neighbouring quarry operation and if so	<p>Proponent obtained Letter from the AD (Mines) regarding the penalty letter for the encroachment to the Existing quarry owner (M.Ramesh) vide Letter No 33/2021 Dated 25.10.2023</p> <table><tr><th>Details</th><th>Description</th></tr><tr><td>Encroachment S.F. No</td><td>20/2</td></tr><tr><td>Extent</td><td>0.57.0 Ha</td></tr><tr><td>Excavated Depth</td><td>10.6m bgl</td></tr><tr><td>Quantity</td><td>80,048m³ of Rough stone</td></tr></table> <p>REMARKS:</p> <p>Proponent Revised the mining plan after leaving the S.F. No 20/2 (Broken up area) and got approval vide Rc. No. 33/2021 (G&M) Dated 21.09.2023.</p>	Details	Description	Encroachment S.F. No	20/2	Extent	0.57.0 Ha	Excavated Depth	10.6m bgl	Quantity	80,048m ³ of Rough stone
Details	Description											
Encroachment S.F. No	20/2											
Extent	0.57.0 Ha											
Excavated Depth	10.6m bgl											
Quantity	80,048m ³ of Rough stone											
2	whether any penalty was levied for illegal mining and if not whether any penalty has been imposed on the PP	<p>Penalty imposed on the Lessee Thiru. M. Ramesh S/o. Muthukaruppan Details are as follows</p> <table><tr><th>Details</th><th>Description</th></tr><tr><td>Penalty amount for Rough stone</td><td>4,34,25,600/-</td></tr><tr><td>Penalty amount for Gravel</td><td>51,52,872/-</td></tr><tr><td>Total Penalty amount</td><td>4,85,78,472/-</td></tr></table> <p>Reference: RDO letter proceedings No 1/7727/2023 Dated 16.10.2023</p>	Details	Description	Penalty amount for Rough stone	4,34,25,600/-	Penalty amount for Gravel	51,52,872/-	Total Penalty amount	4,85,78,472/-		
Details	Description											
Penalty amount for Rough stone	4,34,25,600/-											
Penalty amount for Gravel	51,52,872/-											
Total Penalty amount	4,85,78,472/-											

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 1,09,580 m³ of rough stone by maintaining the ultimate depth of mining upto 40m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


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- 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) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 3) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The PP shall install the garland drainage with siltation tank around the mine lease area leading to the Eri situated nearby with proper gradient shall be completed before execution of the mine lease.
- 5) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 6) 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.
- 7) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of one year from the commencement of quarrying operations, to design the controlled blast parameters initially for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations subsequently with proper validation of the design through trial blasts in the proposed quarry after

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

- 8) 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 the depth of quarry touches 30 m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 10) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of one year from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 11) As accepted by the Project Proponent the CER cost of Rs. 10 Lakhs and the amount shall be spent for the activities as committed towards Government Higher Secondary School, Marudhanthalai Village before obtaining CTO from TNPCB.

Agenda No: 421-19

(File No: 9416/2023)

Proposed Captive Resin plant with a Production Capacity of 21250 kg/day for Manufacturing of Plywood & Block Boards of 4329 MT/month at S.No. 139/2A2, 139/2B, 139/3, 140/1A2, 140/1B, 140/2, 140/3, 140/4, 140/5, 140/6, 140/7, 140/8, 146/1, 146/3B & 146/4 of Panchalam Village, Tindivanam Taluk, Villupuram District Tamil Nadu by M/s. HG Industries Limited (HGIL) - For Environmental Clearance. (SIA/TN/IND3/425579/2023 Dt. 10/04/2023).

The proposal was earlier placed in the 385th SEAC meeting held on 22.06.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

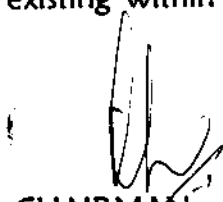
1. The Project Proponent, M/s. HG Industries Limited (HGIL) (Formerly Himalaya Granites Limited) has applied for Environmental Clearance for the Proposed Captive Resin plant with a Production Capacity of 21250 kg/day for Manufacturing of Plywood & Block Boards of 4329 MT/month at S.No. 139/2A2, 139/2B, 139/3, 140/1A2, 140/1B, 140/2, 140/3, 140/4, 140/5, 140/6, 140/7, 140/8, 146/1, 146/3B & 146/4 Panchalam Village, Tindivanam Taluk, Villupuram District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 5(f) "synthetic organic chemicals" of the Schedule to the EIA Notification, 2006.
3. ToR issued vide Letter No.SEIAA-TN/F.No.9416/2022/5(f)/ToR-1270/2022 Dated:08.10.2022.
4. Public Hearing conducted on 28.02.2023
5. EIA report submitted on 11.04.2023.

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

- i. The PP shall obtain permanent fresh water supply commitment letter from the Competent authority/Municipality/Panchayat instead of relying on tankers/Ground water.
- ii. The PP shall furnish the details of STP and ETP already existing within the premises.


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- iii. The proponent shall provide details of Solid waste disposal facility such as organic waste convertor within project site.
- iv. The PP shall revise the list of plants proposed for greenbelt as suggested by the Committee and the proponent shall complete the plantation as a part of Greenbelt development.

Based on the Proponent's reply, the proposal was again placed in the 406th SEAC meeting held on 01.09.2023. Based on the presentation made and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the specific conditions stated therein, in addition to normal conditions stipulated by MOEF & CC.

Subsequently, the subject was placed in the 657th meeting of Authority held on 25.09.2023.

After detailed discussions, the Authority noted the following.

1. Notification issued by MoEF&CC from time to time

As per EIA Notification 2006 S.O. 1533 (E) Dated: 14.09.2006, under 3(a) in the schedule,

(1)	(2)	(3)	(4)	(5)
"5(f)	Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)	Located outside the notified industrial area/estate	Located in a notified industrial area/estate	"General as well as specific condition shall apply."

2. As per Notification S.O. 1599 (E) Dated: 25.06.2014, S.O. 1223 (E) Dated: 27.03.2020, S.O. 3636 (E) Dated: 15.10.2020 for item 5(f) and the entries relating thereto, the following item and entries shall be substituted, namely; -

(1)	(2)	(3)	(4)	(5)
"5(f)	Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates)	Located outside the notified industrial area/estate except	(i) Located in a notified industrial area/estate.	"General as well as specific condition shall apply." Small units; with water consumption <25 m ³ /day, fuel consumption <25 TPD and not covered in the category of MAH units as

	excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)	small units as defined in column (5)	(ii) Small units as defined in column (5)	per the Management, Storage and Import of Hazardous Chemical Rules, 1989. All proposals for projects or activities in respect of Active Pharmaceutical Ingredients (API), received up to the 30th March 2021, shall be appraised, as Category 'B2' projects, provided that any subsequent amendment or expansion or change in product mix, after the 30th March 2021, shall be considered as per the provisions in force at that time."
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3. The proponent had obtained CTE from TNPCB vide 2101240864569 Dated: 25.10.2021 and CTO from TNPCB vide consent order No.2304253037518 Dated: 29.05.2023 for the Manufacturing of Flush Door, Plywood and Block Boards with production quantity of 23 Tons/month, 3660 Tons/month and 22 Tons/month respectively at S.F.No. 139/2A2, 139/2B, 139/3, 140/1A2, 140/1B, 140/2, 140/3, 140/4, 140/5, 140/6, 140/7, 140/8, 146/1, 146/3B & 146/4 of Panchalam Village, Tindivanam Taluk, Villupuram District, Tamil Nadu with STP capacity of 20 KLD validity up to 31.03.2025.
4. Subsequently, The PP had submitted an online application for obtaining EC for the Proposed Captive Resin plant with a Production Capacity of 21250 kg/day for Manufacturing of Plywood & Block Boards of 4329 MT/month at S.No. 139/2A2, 139/2B, 139/3, 140/1A2, 140/1B, 140/2, 140/3, 140/4, 140/5, 140/6, 140/7, 140/8, 146/1, 146/3B & 146/4 of Panchalam Village, Tindivanam Taluk, Villupuram District Tamil Nadu to the existing plywood Industry under 5(f) category.
5. Further, the S.F. Nos of both the existing and proposed activity were compared and it was ascertained as follows


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S.No	Description	Existing Plywood Industry as per the CTO obtained from the TNPCB	Proposed Captive Resin plant (EC attracting)
1.	S.F. No	139/2A2, 139/2B, 139/3, 140/1A2, 140/1B, 140/2, 140/3, 140/4, 140/5, 140/6, 140/7, 140/8, 146/1, 146/3B & 146/4	139/2A2, 139/2B, 139/3, 140/1A2, 140/1B, 140/2, 140/3, 140/4, 140/5, 140/6, 140/7, 140/8, 146/1, 146/3B & 146/4

Hence, the proposed EC attracting industry is within the same premises of existing manufacturing of plywood industry. Hence, the proposed activity has to be considered as one single industry.

6. The PP had obtained CTE on 25.10.2021 and CTO on 29.05.2023. Subsequently, the proponent had submitted google imaginary pertaining to 14.06.2022.

Conclusion:

1. The proposed resin plant is captive to manufacturing of Plywood Industry which is within the same premises as the Existing Industry. Hence, the proposed activity and existing manufacturing plywood industry has to be considered as one single industry.
2. Further, the STP for which existing industrial activity approved by TNPCB vide consent order No. 2304153037518 dated:29.05.2023 was for 20 KLD. Now, the PP is proposing fresh water requirement for 127 KLD. Hence, the proposed activity requires more than 25 KLD of fresh water.
3. Further, the PP had submitted in the PPT as well as the proposal in the parivesh portal, pertaining to the google imaginary 14.06.2022. Subsequently, the PP had obtained CTO vide consent order No. 2304153037518 on 29.05.2023. Hence, from the above it is ascertained that the PP had set up the industry. Even though google satellite imaginary is available only upto 14.06.2022, the PP could have given a photograph/videography of the existing industry since the site condition is completely different from 14.06.2022 and as on today.
4. Further, as per the EIA Notification, S.O. 1599 (E) Dated: 25.06.2014, only small units as defined under column (5) shall be considered under category 'B'. Based

on the water requirement details provided by the PP, fresh water requirement is 127 KLD which is greater than 25 m³/day as per EIA Notification.

Hence, In view of the above facts, after detailed discussion, the Authority decided to request the Member Secretary SEIAA-TN to refer back the proposal to SEAC-TN and SEAC shall examine the following points and shall furnish its recommendations to SEIAA.

1. The water requirement is more than 25 KLD. Hence, SEAC shall examine whether the proposed industrial activity will fall within small units as defined in Column (5) of EIA Notification as amended.
2. The PP has not furnished the actual site condition in the form of photograph/videography. Hence, the PP shall give an explanation regarding not furnishing the present existing site conditions with the existing setup.
3. The PP may also be directed to furnish the actual site condition with drone video & Photograph covering the proposed activity with clearly demarcating the existing manufacturing of Plywood Industry & the site where the resin plant captive to the existing Industry which the PP is proposing to establish.
4. Detailed DPR may be called for and assessed.
5. The complete process flow with details of proposed Industry may be called for and stagewise input and output may be studied.
6. The Energy and fuel consumption of the industry may be studied.

Hence, the proposal was placed in the 421st SEAC meeting held on 08.11.2023. The Project proponent made a presentation along with the clarifications for the above shortcomings observed by the SEIAA.

S. NO	SEIAA QUERY	REPLY FURNISHED BY THE PP
1	The water requirement is more than 25 KLD. Hence, SEAC shall examine whether the proposed industrial activity will fall within	The total water requirement for the Resin plant is 6.48 KLD. Total resin requirement for plant 21250 Kg/Day which includes 3 different category of resin and will be carried out the manufacturing process in 3 no of dedicated kettles where the process requirement is 1.13 KLD. The Process


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	small units as defined in Column (5) of EIA Notification as amended.	consumption details for Resin Manufacturing were already furnished in EIA report Table 2-10, S. No. 1 & Page No.90. The kettles don't require every day washing (Washing required weekly /fortnight basis) hence water requirement for washing will be 0.05 KLD. The proposed process of resin manufacturing for obtaining the EC requires the employment of only 7 people maximum where the domestic water requirement is 0.3 KLD. Colling tower water Requirement is 5 KLD. Thus, the total water consumption for the Resin manufacturing, attracting EC is less than 25 KLD (6.48 KLD).
2	The PP has not furnished the actual site condition in the form of photograph/videography. Hence, the PP shall give an explanation regarding not furnishing the present existing site conditions with the existing setup.	The inconvenience is deeply regretted. In our previous presentation we had submitted the layout well demarcated for Plywood and Resin Manufacturing plant. However, the submission of drone video and photograph was missed out, the latest site condition of proposed demarcated area for Resin plant is being furnished through drone video and photographs as well as in a separate pen drive.


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3	The PP may also be directed to furnish the actual site condition with drone video & Photograph covering the proposed activity with clearly demarcating the existing manufacturing of Plywood Industry & the site where the resin plant captive to the existing Industry which the PP is proposing to establish.	The PP is hereby furnishing the actual site condition with drone video and photograph covering proposed activity with clear demarcation of the proposed site of Resin plant for Captive Consumption to the existing plywood plant in a separate pen drive.
4	Detailed DPR may be called for and assessed.	The PP is hereby submitting the DPR as attachment and in a separate pen drive.
5	The complete process flow with details of proposed Industry may be called for and stagewise input and output may be studied.	The process flow chart for Resin Manufacturing and Kettle design is shown in Slide No. 15 & 16. Further the detail of input and output for all 3 types of Resins batch wise furnished in slide no. 17 to 22. Kettle is designed with Water Circulation System and Jacket to Ensure Emergency arresting the process. Each Kettle equipped with Water Tube Condenser for Reflux the Condensates to the Kettle -ensure Zero loss and Emission. • Washing is not frequent as there is dedicated Kettle for individual Resins and Even in case of Washing the washing water, stored in closed lead containers and get used in subsequent batches- ensuring Zero Liquid Discharge Concept and Zero Loss. • HG Industries Ltd is proposed 3 types of Resin Manufacturing for captive Consumption for plywood manufacturing. • Total reaction shall be carried out in closed

		<p>jacketed vessel having cooling water supply to control temperature in case of run-away reaction. Reaction can be arrested by Change of Medium in case of emergency (Alkaline to Acidic or Acidic to alkaline). Hence at any stage of manufacturing the reactions can be controlled and subsequently the Resin batches can be used by mixing with higher viscous new batch, the chances for batch failure are very negligible. However, in case of any such happenings the same will be disposed off through TSDF.</p>
6	The Energy and fuel consumption of the industry may be studied.	<p>To manufacture the resin the Heat energy is requirement is 6 Lakh K Cal which will be obtained from the 100 Lakh K Cal Thermic Fluid Heater (TFH) established in plywood manufacturing unit by circulation of Hot Thermic Fluid in compact pipelines (closed loop pipelines) by air cooled booster pumps. • Total fuel consumption to run the 100 Lakh K Cal thermic fluid heater in full capacity is 2125 Tons/Month (85 TPD) of wood scraps generated from our plywood manufacturing process. To avail 6 Lakh K Cal for Resin plant the fuel requirement will be 5.1 TPD Therefore, fuel consumption for the proposed resin plant is much lesser than the 25 TPD. The power requirement of 266 KVA for the proposed Resin Plant will be met through Plywood manufacturing unit sourcing from TANGEDCO. A separate energy meter shall be provided for Resin Plant.</p>

The Committee carefully examined the points raised by SEIAA and the documents and DPR submitted by the PP and noted that although the resin plant is coming up near the plywood plant it has to be treated as a separate activity. SEAC therefore, decided to reiterate its recommendation for the proposal of Resin plant with a Production Capacity of 21250 kg/day for Manufacturing of Plywood & Block Boards of 4329 MT/month at S.No. 140/7 (part) & 140/8 (part) of Panchalam Village, Tindivanam Taluk, Villupuram District Tamil Nadu under Category "B1" of Item 5(f) "synthetic organic chemicals" of the Schedule to the EIA Notification, 2006 by M/s. HG Industries Limited (HGIL) already made in the 406th SEAC meeting held on 01.09.2023. All other conditions stipulated in the earlier minutes will remain unaltered.


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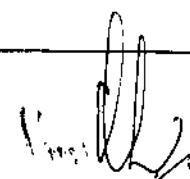

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ANNEXURE-I

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

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


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

GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

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

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

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

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

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

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



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ROUGH STONE/JELLY/BLUE METAL QUARRY

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

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

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


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

- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 37) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.

- 38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 40) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
- 41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.


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

Sl.	Existing (or) Virgin Quarry	
No	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.
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.

Annexure II

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

1. Statutory Compliance:

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

Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.

10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

2. Air quality monitoring and preservation:

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.

2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.

3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.

4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.

5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.

6. Wet jet shall be provided for grinding and stone cutting.

7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.

8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
11. For indoor air quality the ventilation provisions as per National Building Code of India.

3. Water Quality Monitoring and Preservation:

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

project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

6. At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
12. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement shall be provided. In areas where ground water recharging is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
13. All recharges should be limited to shallow aquifer.

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

4. Noise Monitoring and Prevention:

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

5. Energy Conservation Measures:

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

6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.

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

6. Waste Management:

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.

2. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.

4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.

5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.

7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction

material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.

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

7. Green Cover:

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

appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

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

8. Transport:

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

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

9. Human Health Issues:

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

10. Corporate Environment Responsibility:

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

submitted to the MoEF&CC as a part of Half Yearly Compliance Report (HYCR).

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

11. Miscellaneous:

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

prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

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

Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	வில்வம்
2	<i>Adenaanthera pavonia</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றம்மணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathu	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathu	இருவத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax caba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Serakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon swietenia</i>	Purasamaram	பூசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூலி
18	<i>Creteva adansoni</i>	Mavalingum	மாவிலங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amplissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றிப்பூசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில் மரம், ஆயிலி
27	<i>Lannea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விலா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	அம்பல பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Martikara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	எச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூவரக
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Putthranjiva roxburghii</i>	Karipala	கரிபாலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கன் சோப்புக்காய்
50	<i>Sarcia asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாங் கொட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்ட்ரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வென் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தாண வேம்பு
58	<i>Thespesia populnea</i>	Pirvarasu	பூவரக
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வெப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பழி

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

சுரங்கம்

காங்கேசுவரில் குவாரி செயல்பாடுகளுக்கான சுற்றுத்தூய்மை அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது. SEIAA-____, தேதியிடப்பட்டு, சுற்றுத்தூய்மை அனுமதி _____ தேதி வரை செல்லத்தக்கதாக உள்ளது.

<p>பக்கம் பகுதி வரைச்சி கெம்பாட்டுக்கான அடிக்கல் திட்டம்</p>	<p>குவாந்தியின் எல்லைகளில் அந்தி வேலி அமைக்க வேண்டும் அடிக்கல்பாதுகாப்பின் ஆழம் தராமல் தீயிருந்து மீட்டிக்க வேண்டும் காற்றின் மாக ஏற்படாதவாறு அடிக்கல் பணிசெய்து வெற்றிபெற வேண்டும். வாகனங்கள் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்கு தண்ணீரை முறைப்பாக தண்ணீர் வரிகளின் மூலமாக அடக்கப்பட்டு வெளிக்க வேண்டும். இதற்காக அமைக்கப்படும் தர்பி மாகப்பாட்டைக் குறைப்பதற்காக குவாந்தியின் எல்லைகளில் அந்தி அடித்திடப்பட வேண்டும் பகுதியை ஏற்படுத்த வேண்டும்.</p>
<p>தர்பி பாதுகாப்பைக் கொடுக்க வேண்டிய அடிக்கல் எல்லைகளில்:</p>	<p>அடிக்கலின் வெள எல்லைகளில்பொது நிறுவனங்கள் ஏற்படாதவாறு மற்றும் அடிக்கல் பாதைகளையும் பாதுகாப்பு தரவேண்டியவகையில் உட்கட்டப்பட வேண்டும்</p>
<p>அடிக்கலின் இருப்பு ஏற்படும் இடத்தில் அமைக்க வேண்டிய (SIA) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேல் கொடுக்க வேண்டும்.</p>	<p>அடிக்கல் எட்டி வரிகள் மீது அடிக்கலின் உட்கல் பணிசெய்து தகுந்த பாதுகாப்பு கட்டுவதில் வாகனவெதிரை கட்டுவதற்கான கட்டுப்பாடு வரிகளை மேல் தர வேண்டும்.</p>
<p>கிராமம் அல்லது பகுதியைக் குறிப்பாக வாகனங்கள் செல்லும் எல்லைகளில் வெளக்கி தகுந்த பாதுகாப்பு கொடுக்க வேண்டும்.</p>	<p>அடிக்கல்பாதுகாப்பின் அளவில் உட்கல் வாகனங்கள் பணிசெய்து மற்றும் தீயிருந்து பாதுகாப்பைக் கொடுக்க வேண்டும்.</p>
<p>தீயிருந்து பாதுகாப்பைக் கொடுக்க வேண்டிய இடத்தில் அடிக்கல் வாகனங்கள் செல்லும் இடத்தில் தீயிருந்து பாதுகாப்பைக் கொடுக்க வேண்டும்.</p>	<p>அடிக்கலின் இருப்பு ஏற்படும் இடத்தில் அடிக்கல் வாகனங்கள் செல்லும் இடத்தில் தீயிருந்து பாதுகாப்பைக் கொடுக்க வேண்டும்.</p>
<p>அடிக்கலின் இருப்பு ஏற்படும் இடத்தில் அடிக்கல் வாகனங்கள் செல்லும் இடத்தில் தீயிருந்து பாதுகாப்பைக் கொடுக்க வேண்டும்.</p>	<p>அடிக்கலின் இருப்பு ஏற்படும் இடத்தில் அடிக்கல் வாகனங்கள் செல்லும் இடத்தில் தீயிருந்து பாதுகாப்பைக் கொடுக்க வேண்டும்.</p>
<p>அடிக்கலின் இருப்பு ஏற்படும் இடத்தில் அடிக்கல் வாகனங்கள் செல்லும் இடத்தில் தீயிருந்து பாதுகாப்பைக் கொடுக்க வேண்டும்.</p>	<p>அடிக்கலின் இருப்பு ஏற்படும் இடத்தில் அடிக்கல் வாகனங்கள் செல்லும் இடத்தில் தீயிருந்து பாதுகாப்பைக் கொடுக்க வேண்டும்.</p>
<p>அடிக்கலின் இருப்பு ஏற்படும் இடத்தில் அடிக்கல் வாகனங்கள் செல்லும் இடத்தில் தீயிருந்து பாதுகாப்பைக் கொடுக்க வேண்டும்.</p>	<p>அடிக்கலின் இருப்பு ஏற்படும் இடத்தில் அடிக்கல் வாகனங்கள் செல்லும் இடத்தில் தீயிருந்து பாதுகாப்பைக் கொடுக்க வேண்டும்.</p>
<p>அடிக்கலின் இருப்பு ஏற்படும் இடத்தில் அடிக்கல் வாகனங்கள் செல்லும் இடத்தில் தீயிருந்து பாதுகாப்பைக் கொடுக்க வேண்டும்.</p>	<p>அடிக்கலின் இருப்பு ஏற்படும் இடத்தில் அடிக்கல் வாகனங்கள் செல்லும் இடத்தில் தீயிருந்து பாதுகாப்பைக் கொடுக்க வேண்டும்.</p>
