

State Expert Appraisal Committee (SEAC)

Minutes of 414th meeting of the State Expert Appraisal Committee (SEAC) held on 06.10.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building and Construction projects and Mining projects.

Confirmation of Earlier Minutes

The minutes of the 413th SEAC meeting held on 05.10.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No:414-01

(File No: 10296/2023)

Proposed Black Granite Quarry over an extent of 2.39.5Ha at S.F.Nos. 21/3C1(Part), 21/3C2(Part), 21/4C3(Part), 22/1A1(Part), 22/1A2(Part), 22/1B1(Part), 22/2B(Part), 22/2C(Part), 23/5C1(Part), 23/5C2A(Part), 23/5C2B(Part) and 23/6A3(Part) of Edakkal Village, Thandampattu Taluk, Tiruvannamalai District, Tamil Nadu by Tvl. Madhucon Granites Limited-For Environmental Clearance. SIA/TN/MIN/438917/2023, Dated:03.08.2023).

The proposal was placed in the 414th Meeting of SEAC held on 06.10.2023. 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, Tvl. Madhucon Granites Limited has applied for Environmental Clearance for the Proposed Black Granite Quarry over an extent of 2.39.5Ha at S.F.Nos. 21/3C1(Part), 21/3C2(Part), 21/4C3(Part), 22/1A1(Part), 22/1A2(Part), 22/1B1(Part), 22/2B(Part), 22/2C(Part), 23/5C1(Part), 23/5C2A(Part), 23/5C2B(Part) and 23/6A3(Part) of Edakkal Village, Thandampattu Taluk, Tiruvannamalai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The quarry lease was granted for a period of Twenty years. The quarry lease deed was executed on 17.03.2008 and the lease period is valid upto 16.03.2028.


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4. Earlier, the project proponent has obtained EC from SEIAA vide Lr.No.SEIAA-TN/F.No.5104/1(a)/EC.No:3218/2016 dated: 06.07.2016 for the period of 3 years with respect to lease period.
5. The 3rd Scheme of mining plan is for the period of Five years (2023 to 2028) & production should not exceed 36498.5 m³ of ROM & 3649.9 m³ of Recovery@10% & 32848.6 of Granite Waste @90% with ultimate depth of mining 27m.

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 Certified Compliance Report obtained from the office of the IRO, MoEF & CC, Chennai and appropriate mitigating measures for the non-compliance items, if any.
2. The PP shall furnish a letter obtained from AD/DD Mine & Geology with respect to exact depth of existing Pit, period of the operation and stoppage of the earlier mines & quantity of minerals mined out.
3. The PP shall complete the fencing, tree plantation and photographs, videos of the same shall be furnished.

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: 414-02

(File No: 10303/2023)

Proposed construction of Hospital Building at S.F.No. 102/2B2, 102/2C2, 104/1A2, 104/2A2, 104/1B, 104/2B2 of Veeraraghavapuram Village, Poonamallee taluk, Thiruvallur District, Tamil Nadu by M/s. Velammal Hospitals Private Limited- For Environmental Clearance (SIA/TN/INFRA2/438444/2023 dated: 29.07.2023).

The proposal was placed in the 414th Meeting of SEAC held on 06.10.2023. The details of the project furnished by the proponent are available in the website (parivresh.nic.in).

The SEAC noted the following:


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1. The Project Proponent, M/s. Velammal Hospitals Private Limited has applied for Environmental Clearance for the Proposed construction of Hospital Building at S.F.No. 102/2B2, 102/2C2, 104/1A2, 104/2A2, 104/1B, 104/2B2 of Veeraraghavapuram Village, Poonamallee taluk, Thiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.

Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. The environmental clearance is sought for Construction Project at Plot No: 102/2B2, 102/2C2, 104/1A2, 104/2A2, 104/1B, 104/2B2, City - Poonamalle, District - Thiruvallur, Tamilnadu by the PP M/s. Velammal Hospitals Private Limited.
2. M/s. Enviro Care India Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is 12141.00 m² and built-up area is 44923.88 m² respectively.
4. Maximum number of floors will be B+G+08 and maximum height of the building will be 41.55 m.
5. Total Saleable DU's (dwelling units) is 0.
6. Salient features of the project as submitted by the project proponent:

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	12141.00	SQMT
2	Proposed Built Up Area	44923.88	SQMT
3	Total no of Saleable DU's/Villas	0	No.
4	Max Height - (Height of tallest block)	41.55	M
5	No of Building Blocks (Residential + Community facilities)	1	No.
6	Max No of Floors	8	No.


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7	Expected Population (No. of Beds + No. of Out Patients + No. of Visitors + No. of Employees)	501+450+501+855 = 2307	No.
8	Total Cost of Project	98.51	CR
9	Project Activity:	Hospital Building.	
AREAS			
10	Permissible Ground Coverage Area (xx%)	-	SQMT
11	Proposed Ground Coverage Area (32.26%)	3917.27	SQMT
12	Permissible FSI Area (xxx)	-	SQMT
13	Proposed FSI Area	37797.36	SQMT
14	Other Non FSI Areas - including basement area etc.	7126.52	SQMT
15	Proposed Total Built Up Area	44923.88	SQMT
WATER			
16	Total Water Requirement	288.19	KLD
17	Fresh water requirement	204.73	KLD
18	Treated Water Requirement	83.46	KLD
19	Wastewater Generation	259.47+10.00	KLD
20	Proposed Capacity of STP	300.00	KLD
21	Treated Water Available for Reuse	-	KLD
22	Treated Water Recycled	83.46	KLD
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	-	KLD
RAINWATER HARVESTING			
24	Rainwater Harvesting - Recharge Pits	5	No.
25	Rainwater Harvesting Sump Capacity	50	M ³
PARKING			
25	Total Parking Required as / Building Bye Laws	Two Wheeler - 365 Four Wheeler - 388	ECS


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26	Proposed Total Parking	Two Wheeler - 365 Four Wheeler - 388	ECS
27	Parking in Basements	Two Wheeler - 277 Four Wheeler - 170	ECS
GREEN AREA			
28	Proposed Green Area (Minimum 15.0% of plot area)	4006.53 (33.00%)	SQMT
	Total area	12141.00	SQMT
	Existing trees on plot	0	No.
	Number of trees to be planted	1010	No.
	Number of trees to be transplanted/cut	-	
SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	0.4614	TPD
30	Organic waste	0.2768	TPD
31	Mode of Treatment & Disposal	Organic Waste Converter	TPD
32	Quantity of Sludge Generated from STP & Disposal	50.00	KG/DAY
33	Quantity of E-Waste Generation & Disposal	50.00	KG/YEAR
34	Quantity of Hazardous waste Generation & Disposal	2.00	LPD
POWER / GREEN POWER			
34	Total Power Requirement	1000	KVA
35	DG set backup	1010, 1010	KVA
36	No of DG Sets	2	No.
37	Solar Panels – Roof Coverage	40	%
38	Hot Water Requirement	-	-
	Of which met by Solar Panels	-	-


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Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's	-	-	-
Total	-	-	-
Non Residential	-	-	-
CLUB house (Employees etc.)	Area		
Club	-	-	-
No. of Beds	-	-	501
Employees	-	-	855
Out-Patients	-	-	501
Visitors	-	-	501
Total	-	-	2307
Residential	-	xx% of Residential Population	-
Club/Community Hall	-	xx% of Residential Population	-
Commercial	-	-	-
Total Visitors	-	-	501
Total Population	-	-	2307
EMP Cost	-	-	105.00 Lakhs
CER Cost	-	-	Rs. 2 crores
Details of CER Activities	As accepted by the Project Proponent the CER cost of Rs. 2.0 crores and the amount shall be spent for the activities as committed towards TB Sanatorium, Tambaram within 1 year from the date of issue of EC.		


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RECOMMENDATION OF THE COMMITTEE

The Committee discussed the matter and recommended a grant of environmental clearance for the project proposal as above and subject to the standard conditions as per the Annexure II of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
2. PP shall submit the commitment letter from the local body for supply of fresh water before obtaining CTE from TNPCB.
3. The PP shall submit the BMW agreement from the HCFs/CBWTFs to reduce illegal dumping of BMW before obtaining CTE from TNPCB.
4. 50% of the roof area should be covered with Solar panels. Provision of hot water shall be met through solar water heaters.
5. The green belt area should be not less than 33% of the total land area of the project and the same should be earmarked.
6. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
7. The generated Bio medical waste shall be handled as per Bio Medical waste management Rules 2016.
8. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.


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9. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
10. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
11. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.
12. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
13. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.
14. The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
15. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
16. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly.
17. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.
18. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.


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19. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

Agenda No: 414-03

(File No: 10324/2023)

Proposed Rough Stone Quarry over an extent of 2.00.0 Ha at S.F.Nos, 152/2(part) of Doripalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.G.Venkatesh -For Environmental Clearance. (SIA/TN/MIN/430294/2023, Dated:24.06.2023).

The proposal was placed in the 414th Meeting of SEAC held on 06.10.2023. 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, Thiru.G.Venkatesh has applied for Environmental Clearance for the Proposed Rough Stone Quarry over an extent of 2.00.0 Ha at S.F.Nos, 152/2(part) of Doripalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The quarry lease was granted for a period of ten years. The quarry lease deed was executed on 29.11.2018 and the lease period is valid upto 26.08.2028.
4. Earlier, the project proponent has obtained EC from DEIAA vide Lr.No.03/DEIAA-KGI/EC.No.54/2018 dated: 27.08.2018 for the period of 5 years with respect to lease period.
5. The mining plan is for the period of Five years (2018 to 2023) & production should not exceed 7,41,482 cu.m of Rough stone with ultimate depth of mining 50m.

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

1. The Project Proponent shall furnish the Scheme of Mining/Modified Mining Plan approved by the competent authority, incorporating the Revised Plan & Section indicating the revised bench configurations.


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2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) for Non operation of this quarry from 28.04.2023 as per MoEF&CC O.M Dt:28.04.2023 which shall also stipulate the following information:
 - i. Original pit dimension of the existing quarry
 - ii. Quantity achieved Vs EC Approved Quantity
 - iii. Balance Quantity as per Mineable Reserve calculated.
 - iv. Month wise Production details
 - v. Mined out Depth as on date Vs EC Permitted depth
 - vi. Details of illegal/illicit mining carried out, if any
 - vii. Non-compliance/Violation in the quarry during the past working.
 - viii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
 - ix. Existing condition of Safety zone/benches
 - x. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining.
3. The PP shall submit the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and also to furnish mitigation measures/remedial action plan with the budget allocation for the non-compliance stated in the CCR.
4. The PP shall complete the fencing, tree plantation and photographs, videos of the same shall be furnished.


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: 414-04

(File No: 10304/2023)

Proposed Construction of Commercial Building at S.F.Nos.725/19A1, 725/20A2, 725/20A4 and 725/23B, Unnamalaikadai Village, Vilvancode Taluk Kanyakumari District, Tamil Nadu by M/s. Ramachandran - For Environmental Clearance. (SIA/TN/INFRA2/438117/2023, Dated: 29/07/2023)

The proposal was placed in this 414th SEAC meeting held on 06.10.2023. The project


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proponent made a detailed presentation on the proposed project. 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 Proponent, M/s. Ramachandran has applied seeking Environmental Clearance for the Proposed Construction of Commercial Complex at S.F.Nos.725/19A1, 725/20A2, 725/20A4 and 725/23B, Unnamalaikadai Village, Vilvancode Taluk Kanyakumari District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item 8(a) "Building & Construction Projects" of the Schedule to the EIA Notification, 2006 as amended.

On scrutiny of the documents furnished by the PP, the SEAC noted several discrepancies in the conceptual plan and the application furnished by the PP and the EIA coordinator. Hence the Committee decided to defer the appraisal of the project to a later date directing the PP to resubmit the online application form in complete shape with all relevant supporting documents and also to furnish the rationale behind filing two online applications seeking EC for the same project.

Agenda No: 414 - 05

(File No: 10311/2023)

Existing Rough stone and Gravel Quarry lease over an extent of 2.43.0 Ha at S.F.No.170/1(Part),171,172 & 173/4(Part) in Thennilai South village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru. M/s. Sakthi Blue Metals Private limited – Environment Clearance issued by DEIAA - Reappraisal of the project. (SIA/TN/MIN/431074/2023 dt 27/05/2023)

The proposal was placed in this 414th meeting of SEAC held on 6.10.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, M/s. Sakthi Blue Metals Private limited has applied seeking reappraisal of Environment Clearance for the existing Rough stone and Gravel Quarry lease over an extent of 2.43.0 Ha at S.F.No.170/1(Part),171,172


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& 173/4(Part) in Thennilai South village, Pugalur Taluk, Karur District, Tamil Nadu.

2. Prior EC issued by DEIAA vide Lr.No. DEIAA-DIA/TN/MIN/15021/2018, Dated:14.06.2018. This EC issued by the DEIAA has been filed before the SEIAA-TN for reappraisal in compliance to the order of the Hon'ble NGT in O.A142 of 2022 as per the Guidelines stipulated in MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.

Based on the documents furnished by the PP, the SEAC decided to call for the following additional particulars:

1. The PP shall submit the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC for the previous EC obtained from DEIAA, dated.14.06.2018 and also to furnish mitigation measures/remedial action plan with the budget allocation for the non-compliance stated in the CCR.
2. Detailed report on the accident occurred in the crusher owned by the PP and the action taken by the concerned authorities of District Administration along with supporting documents. Also, to furnish details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project.


On receipt of the details sought, the SEAC will further deliberate on the subject.

Agenda No: 414 - 06

(File No: 10318/2023)

Proposed Rough stone lease over an extent of 2.00.0 Ha at S.F.No.631/2B(Part – 1) in Munjurpattu village, Vellore Taluk, Vellore District, Tamil Nadu by Thiru. S.Nandakumar - Environment Clearance. (SIA/TN/INFRA2/438117/2023 dt 29/07/2023)

The proposal was placed in the 414th meeting of SEAC held on 6.10.2023. The SEAC noted that the project proponent has not showed up, however, has sent a letter informing that the CCR in respect of the existing quarry is still awaited and therefore has requested the Committee additional time to submit the same. Hence the SEAC decided to defer the subject to a later date.


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Agenda No: 414 - 07

(File No: 10325/2023)


Existing Rough stone quarry lease over an extent of 2.50.0 Ha at S.F.94 (Government Land) in Meenandoddi village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru. V.Jayaprakash- Environment Clearance issued by DEIAA- Reappraisal of the project. (SIA/TN/MIN/431037/2023 dt 27/05/2023)


The proposal was placed in the 414th meeting of SEAC held on 6.10.2023. The Project Proponent gave a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. V. Jayaprakash has applied seeking Environment Clearance for the existing Rough stone quarry lease over an extent of 2.50.0 Ha at S.F.94 (Government Land) in Meenandoddi village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. Prior EC issued by DEIAA vide Lr.No. 09/DEIAA-KGI/EC.No.07/2017, Dated:12.10.2017. This EC issued by the DEIAA has been filed before the SEIAA-TN for reappraisal in compliance to the order of the Hon'ble NGT in O.A142 of 2022 as per the Guidelines stipulated in MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
4. The SEAC further noted from the geotagged photographs of the project site that the PP has removed only the topsoil upto a depth of 2m to form outer bund. And that fencing and planation have been done.
5. DD/G&M/Krishnagiri vide Lr. No. RoC.No.89/2016/Mines dated 05.10.2023 has reported presence of an existing pit with a depth of 2m and an area of 1070 Sq.m
6. Further DD/G&M/Krishnagiri vide Lr. No. RoC.No.89/2016/Mines dated 05.10.2023 has reported the following:

As per mining plan approved quantity	199168 cbm
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Parmit quantity (period 2022-23 to 2027-28) (Up to 21.09.2023)	3600 cbm
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7. As per the directions of the SEAC during the meeting, the PP has furnished revised mining plan for the production quantity of 199168 cbm of Rough stone (@ 95% reserves) and annual peak production of 44479 cbm of Rough stone (@ 95% reserves).

File No	10318		Category	B2
	(SIA/TN/MIN/431037/2023 dt 27/05/2023)			Date of Receipt: 16.08.2023
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. V.Jayaprakash S/o. Venkateshappa, No.488. B.Singiripalli village, P.kurubarapalli post, Hosur Taluk, Krishnagiri District	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone	
3.	S.F Nos. of the quarry site with area break-up	:	S.F.94 (Government Land)	
4.	Village in which situated	:	Meenandoddi	
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°46'38.48"N to 12°46'31.21"N 78°01'5.81"E to 78°00'59.01"E	
9.	Topo Sheet No.	:	58-L/1	
10.	Type of mining	:	Opencast semi mechanized method of mining.	
11.	Life of Project	:	10 years	
	Lease Period	:	10 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC

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	Geological Resources m ³ (RoM)	:	876875	-
	Mineable Resources in m ³ (RoM)	:	284537	-
	Annual Peak Production in m ³	:	44479	44479
	Maximum Depth in meters	:	42m BGL	-
13.	Depth of water table	:	50 m	
14.	Man Power requirement per day:	:	18 Nos.	
15.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	1.81 kLD 0.81 kLD 0.5 kLD & 0.5 kLD	
16.	Power requirement		TNEB power supply & 500 litres per day of HSD for DG set	
17.	Precise area communication approved Dept. of Geology & Mining	:	Na.Ka.En.89/2016/Kanimam Dated:06.07.2016.	
18.	Mining Plan approved by Dept. of Geology & Mining	:	Rc.No.89/2016/Mines-1 Dated: 06.07.2016.	
19.	500m Cluster Letter issued by the Dept. of Geology & Mining		Rc.No.89/2018/Mines Dated: 29.05.2023.	
20.	VAO Certificate regarding Structures within 300m Radius		Letter Dated : 20.08.2023	
21.	Project Cost (excluding EMP cost)	:	Rs.52,60,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits. Rough Stone
		:	Max Total RoM in m ³	1,99,168
		:	Annual Max RoM in m ³	44,479

		:	Max Depth in m	42m BGL
23.	Total EMP cost (in Rs. Lakh).	:	Rs.81,25,898/- for 5 years	
24.	CER cost (in Rs. Lakh).	:	Rs. 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 44479 m³ of Rough stone by maintaining the ultimate depth of mining of 42m 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 1250 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from 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 physical 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 optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-

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

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. As accepted by the Project Proponent the CER cost of Rs.5.0 lakh and the amount shall be spent for the committed activities at P.U.P Government Schools at Sulagunda and B.Singiripalli Villages, Shoolagiri Taluk , Krishnagiri District before obtaining CTO from TNPCB.

Agenda No: 414-08


(File No: 10298/2023)

Proposed Rough stone Quarry lease over an extent of 2.00.0 Ha at S.F.Nos. 158/1(Part2) (Bit-II) of Periyagoundapuram Village, Vazhapadi Taluk, Salem District, Tamil Nadu by Tmt. R. Vijaya - For Environmental Clearance. (SIA/TN/MIN/439289/2023, dated: 04.08.2023)

The proposal was placed in 414th SEAC meeting held on 06.10.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tmt. R. Vijaya has applied for Environmental Clearance for the Proposed Rough stone Quarry lease over an extent of 2.00.0 Ha at S.F.Nos. 158/1(Part-2) (Bit-II) of Periyagoundapuram Village, Vazhapadi Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.


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3. As per mining plan, the lease period is for 5 years. The mining plan is for 5 years & production should not exceed 4,07,401m³ of Rough stone. The annual peak production should not exceed 89,745m³ of Rough stone. The ultimate depth of mining is 56m (21m AGL+ 35m BGL).
4. Existing pit letter vide Roc.182/2020/Mines-A dated 30.11.2020 which interalia states

The Precise area communicated land scape is an already leased out quarry, which was previously held under quarry lease for a period 02.05.2011 to 01.05.2016.

The quarry pit found in the area in the following dimensions.

Pit	L	X	W	X	D
I	112 m	X	73m	X	20
II	70 m	X	65m	X	6

The proposal was placed in 414th SEAC meeting held on 06.10.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following additional documents to consider the proposal.

1. As other proposals in the same cluster have been treated under B1 category and given ToR, the proponent shall submit necessary clarification and submit revised 500m cluster certificate from the Department.
2. The proponent shall submit revised section by providing adequate safety distance for the existing high walls and consequent revised quantity duly approved by the competent authority.

Agenda No: 414-09

(File No.10292/2023)

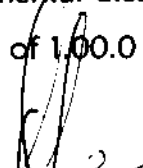
Proposed Ordinary Stone Quarry Lease over an extent of 1.00.0 Ha at S.F.Nos. 81/2 (Part) of Olakkachinnanur, Sankari Taluk, Salem District, Tamil Nadu by Thiru P.Jayaraj - For Environmental Clearance. (SIA/TN/MIN/437975/2023 dated:25.07.2023)

The proposal was placed in this 414th Meeting of SEAC held on 06.10.2023. The project details furnished by the proponent are available on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru P.Jayaraj** has applied for Environmental Clearance for the Proposed Ordinary Stone Quarry Lease over an extent of 1.00.0 Ha at


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S.F.Nos. 81/2 (Part) of Olakkachinnanur, Sankari Taluk, Salem District, Tamil Nadu.

2. The proponent has submitted an application seeking Environmental Clearance under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the project proponent vide Lr.No.DEIAA-DIA/TN/MIN/15440/2018-SLM-EC.No.32/2018 dated.10.06.2018. EC was accorded for the quantity of 79,030m³ of rough stone upto the depth of 32.5m above ground level. EC was valid for 5 years from the date of execution of lease deed.
4. Now, based on MoEF&CC O.M dated. 28.04.2023, the proponent has submitted the application at SEIAA-TN for re-appraisal of EC granted by DEIAA.

Based on the presentation and documents submitted by the project proponent, SEAC decided to call for the following additional details from the project proponent to consider the proposal for appraisal:

1. The proponent shall furnish a letter obtained from the AD/DD of Geology and Mining Department stating the details of quarries located within 500m radius from the current proposed quarry of Thiru. P. Jayaraj.
2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) for Non operation of this quarry from 28.04.2023 as per MoEF&CC O.M Dt:28.04.2023 which shall also stipulate the following information:
 - i. Original pit dimension of the existing quarry
 - ii. Quantity achieved Vs EC Approved Quantity
 - iii. Balance Quantity as per Mineable Reserve calculated.
 - iv. Month wise Production details
 - v. Mined out Depth as on date Vs EC Permitted depth
 - vi. Details of illegal/illicit mining carried out, if any
 - vii. Non-compliance/Violation in the quarry during the past working.
 - viii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
 - ix. Existing condition of Safety zone/benches

- x. Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining.
3. The PP shall submit the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and also to furnish mitigation measures/remedial action plan with the budget allocation for the non-compliance stated in the CCR.

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

Agenda No: 414-10

(File No.10320/2023)

Proposed Rough Stone Quarry Lease over an extent of 2.00.0 Ha (Government land) at S.F.Nos. 631/2B (Part-2) of Munjurpattu Village, Vellore Taluk, Vellore District, Tamil Nadu by Thiru. S.R. Pandurangan - For Environmental Clearance. (SIA/TN/MIN/439010/2023 dated:08.08.2023)

The proposal was placed in this 414th Meeting of SEAC held on 06.10.2023. The project details furnished by the proponent are available on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. S. R. Pandurangan has applied for Environmental Clearance for the Proposed Rough Stone Quarry Lease over an extent of 2.00.0 Ha (Government land) at S.F.Nos. 631/2B (Part-2) of Munjurpattu Village, Vellore Taluk, Vellore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the project proponent vide Lr.No.SEIAA/TN/F.No.5611/1(a)/EC.No.3851/2016 dated 26.10.2016, for the quantity of 1,22,155m³ of rough stone up to the depth of 17m (12m AGL + 5m BGL) for a period of 5 years.
4. However, due to personal reasons the PP has not carried out any quarrying operations after obtaining EC. Further, the Assistant Director, Dept. of Geology & Mining vide letter dated.03.10.2023 has stated that

".. the lessee has not commenced quarrying in the above area till date and hence


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not obtained permit for transportation of mineral from the above lease area so far..”

5. Now, after the expiry of validity of the earlier EC dated.26.10.2016, the proponent has submitted a fresh application seeking Environmental Clearance for carrying out quarrying operations in the proposed area up to the depth of 36m (6m AGL + 30m BGL).
6. Further, on perusal of the records, it was ascertained that in the earlier mining plan submitted in the year 2016, the depth was inadvertently mentioned as 12m above ground level whereas the reserves available above ground level is only upto 6m. However, the error has been rectified in the current mining plan submitted by the project proponent.
7. The other salient features of the proposal are as follows:

File No	10320		Category	1(a)
	SIA/TN/MIN/439010/2023			B2
Sl. No	Salient Features of the Proposal			
1	Name of the Owner/Firm	:	Thiru. S. R. Pandurangan, S/o. S.D.Ramanathan, No.58-A, Bajanai Kovil Street, Thuthipattu, Vellore District – 632 001.	
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone Quarry	
3	S.F Nos. of the quarry site with area break-up	:	631/2B (Part-2)	
4	Village in which situated	:	Munjurpattu	
5	Taluk in which situated	:	Vellore	
6	District in which situated	:	Vellore	
7	Extent of quarry (in ha.)	:	2.00.00 Ha	
8	Latitude & Longitude of all corners of the quarry site	:	12°49'07.78"N to 12°49'13.80"N 79°09'02.60"E to 79°09'09.51"E	
9	Topo Sheet No.	:	57 P/01	
10	Type of mining	:	Opencast Semi - Mechanized mining	

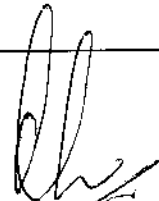

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11	Life of Project	:	10 years	
	Lease Period	:	10 years (2017-2027)	
	Mining Plan Period	:	5 years	
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone – 6,47,505 m ³	-
		:	Top Soil – 19,983 m ³	-
	Minaible Resources m ³ (RoM)	:	Rough Stone – 2,19,355	-
		:	Top Soil – 14,860 m ³	-
	Annual Peak Production in m ³	:	Rough Stone – 46,235m ³	-
		:	Gravel – 7750m ³	-
Maximum Depth in meters	:	36m (6m AGL + 30m BGL)	-	
13	Depth of water table	:	63 m Below Ground Level	
14	Man Power requirement per day	:	23 Nos.	
15	Water requirement: 1. Drinking & Domestic Purposed 2. Dust Suppression 3. Green belt	:	5.0 KLD 1.0 KLD 2.0 KLD 2.0 KLD	
16	Power requirement	:	177968 liters of HSD for the entire project life	
17	Precise area communication approved by the District Collector with date	:	Rc.No.763/2015(Mines)dt:28.03.2016.	
18	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	:	Rc.No.763/2015(Mines)dt:09.03.2023.	
19	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	:	Rc.No.763/2015(Mines) dt:21.04.2023.	



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20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated: 11.04.2023.	
21	Project Cost (excluding EMP cost)	:	Rs. 95,00,000/-	
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	Rough stone – 2,19,355m ³ Topsoil – 14,860m ³
		:	Annual Max RoM in m ³	Rough stone – 46,235m ³ Topsoil – 7750m ³
		:	Max Depth in mtrs	36m (6m above ground level + 30m below ground level)
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 24.77 Lakhs Recurring Cost – Rs. 31.50 lakhs	
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 46,235m³ of Rough stone & 7750m³ of topsoil by restricting the ultimate depth of mining up to 36m (6m above ground level + 30m 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.


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- 2) Tree plantation & fencing and installation of garland drainage around the mine lease area with siltation tank which leads to the nearby water storage tank, shall be completed before obtaining the CTO from the concerned DEE/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) 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 & noise from the blasting operations carried out in the overburden/side-burden formation of the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall join with other quarries operating in the same cluster area to monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 6) 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.

- 7) Due to the existence of water bodies around the existing quarry, as a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs shall be spent for the activities as committed towards the Government High School, Munjurpattu, Vellore before obtaining CTO from TNPCB.

Agenda No: 414-11

(File No: 10300/2023)


Proposed Rough stone & Gravel quarry lease over an extent of 3.06.0Ha at SF.No. 753/B2 (Part) & 753/B3 (Part) of Thennilai South Village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru.K.P. Krishnasamy - for Environmental Clearance.

(SIA/TN/MIN/439367/2023, Dated:06.08.2023)

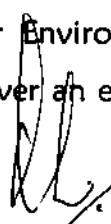
The proposal was placed in 414th meeting of SEAC held on 06.10.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.P. Krishnasamy has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of


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3.06.0Ha at SF.No. 753/B2 (Part) & 753/B3 (Part) of Thennilai South Village, Pugalur Taluk, Karur District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier EC was obtained by PP vide Lr.No.SEIAA-TN/F.No.3717/EC/1(a)/2847/2015 dated 15.02.2016.

Based on the presentation and documents furnished by the project proponent, SEAC noted that the earlier PP have obtained EC for a depth of 8m, whereas the PP mined out a maximum depth of 15m which was confirmed with DD Mines, "Pit letter" vide Rc.No.500/Mines/2022 dated 03.10/2023. Hence SEAC decided to issue ToR under violation category.

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.

The project proponent besides above, also has to 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 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.
- Without consent to Operate (CTO) or in excess of quantity approved in CTO.


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- 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 project proponent is hereby directed to furnish Affidavit as per the guidelines issued by MoEF& CC, in connection with the orders of the Hon'ble Supreme court and the annexure provided by SEIAA, while submitting EIA/EMP for consideration of EC.

Based on the presentation made by the proponent and the documents furnished, the committee decided to recommend for the grant of Standard ToR under Violation category for mining projects as specified by MoEF& CC subject to the above conditions in addition to the Additional ToR specified by the SEAC to deal with the violation aspects of the mining projects.

1. The project proponent shall submit approved Review of Mining Plan with Scheme of Mining for continuing the mining operations in the next production plan period during the extended lease period along with the EIA/EMP report.
2. The PP shall submit a letter for the extension of the validity of the Mining Lease (i.e 2044) issued by the State Government as per the section 8A(5) of MMDR Act, 2015 (Amended).
4. The SEIAA shall immediately initiate take action u/s 19 of E(P) Act 1986 against the PP for the committed violation.
7. The applicability of Public Hearing is subject to the cluster area > 5 Ha as per 500m radius letter obtained from AD/DD, Dept. of Geology & Mining in adherence with the MoEF&CC Notification Dt:01.07.2016.
8. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.

9. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
10. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
11. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
12. 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.
13. 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,
 - a) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b) Quantity of minerals mined out.
 - c) Highest production achieved in any one year
 - d) Detail of approved depth of mining.
 - e) Actual depth of the mining achieved earlier.
 - f) Name of the person already mined in that leases area.
 - g) If EC and CTO already obtained, the copy of the same shall be submitted.
 - h) Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
14. 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).
15. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
 16. 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.
 17. 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.
 18. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
 19. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
 20. 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.
 21. 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.
22. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
 23. 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.
 24. 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.
 25. 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.
 26. 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.
 27. Impact on local transport infrastructure due to the Project should be indicated.
 28. 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.
 29. A detailed mine closure plan for the proposed project shall be included in EIA/EEMP report which should be site-specific.

30. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
31. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
32. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
33. 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.
34. 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.
35. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly 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
36. 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.
37. 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.
38. 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.
 39. 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.
 40. 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.
 41. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
 42. 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.
 43. 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.
 44. 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.
 45. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 414-12

(File No: 10307/2023)

Proposed Ordinary stone (Pegmatite) quarry lease over an extent of 1.69.0Ha at SF.No. 102/3 of Manchakkalpatti Village, Sankari Taluk, Salem District, Tamil Nadu by Thiru. K.Sundaram - for Environmental Clearance. (SIA/TN/MIN/438132/2023, Dated:26.07.2023)


The proposal was placed in 414th meeting of SEAC held on 06.10.2023. 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, Thiru.K.Sundaram has applied for Environmental Clearance for the proposed Ordinary stone (Pegmatite) quarry lease over an extent of 1.69.0Ha at SF.No. 102/3 of Manchakkalpatti Village, Sankari Taluk, Salem District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

File No	10307/2023		Category	B2
	SIA/TN/MIN/438132/2023, Dated:26.07.2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. K. Sundaram S/o Kandasamy, D.No: 1-14-63, Giri Colony, Sankari Drug, Salem District-637 301	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Ordinary stone (Pegmatite) quarry	
3.	S.F Nos. of the quarry site with area break-up	:	102/3	
4.	Village in which situated	:	Manchakkalpatti	
5.	Taluk in which situated	:	Sankari	
6.	District in which situated	:	Salem	
7.	Extent of quarry (in ha.)	:	1.69.0Ha	


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8.	Latitude & Longitude of all corners of the quarry site	:	11°30'26.91"N to 11°30'30.16"N 77°52'50.95"E to 77°52'59.24"E	
9.	Topo Sheet No.	:	58 E/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	
		:	Ordinary stone	Top soil
	Geological Resources m ³	:	3,46,397m ³	-
	Minable Resources m ³	:	1,21,313m ³	11,505m ³
	Annual Peak Production in m ³	:	24,914m ³	7089m ³
	Maximum Depth in meters	:	29m BGL	
13.	Depth of water table	:	42m	
14.	Man Power requirement per day:	:	21 Employees	
15.	Water requirement:	:	5 KLD	
	1. Drinking water & Utilized water	:	1.5 KLD	
	2. Dust suppression & Green belt	:	3.5 KLD	
16.	Power requirement	:	TNEB -	
17.	Precise area communication approved by the Deputy Director, Department of G&M.	:	Na.Ka.No.516/2019/Kanimam/A, Dated:12.06.2023	
18.	Mining Plan approved by Deputy Director, Department of G&M.	:	Roc.No. 516/2019/Mines-A, Dated:11.07.2023	
19.	500m Cluster Letter approved by the Deputy Director, Department of G&M.	:	Roc.No. 516/2019/Mines-A, Dated:31.07.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated:02.08.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 81,00,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Rough stone

		: Max Total in m ³	1,21,313m ³	11,505 m ³
		: Annual Max in m ³	24,914m ³	7,089 m ³
		: Max Depth in mtrs	29m BGL	
23.	EMP cost (in Rs. Lakh).	: Rs.67.28 Lakhs		
24.	CER cost (in Rs. Lakh).	: Rs. 5.00.000		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 24,914m³ of Rough stone and 7,089m³ of Top soil by maintaining the ultimate depth of mining up to 29m 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 complete tree plantation and fencing before obtaining CTO from 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. 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. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
6. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
7. As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall regularly 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.
8. As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 3 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be

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

9. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall 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.
10. As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government School, Manchakkalpatti Village before obtaining CTO from TNPCB.

Agenda No: 414-13

(File No: 10314/2023)

Proposed Rough stone & Gravel quarry lease over an extent of 1.05.0Ha at SF.No. 192/1 & 192/2 of Sathiyamangalam Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Tvl. Veeram Stones Pvt Ltd - for Environmental Clearance. (SIA/TN/MIN/440093/2023, Dated:11.08.2023).


The proposal was placed in 414th meeting of SEAC held on 06.10.2023. 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, Tvl.Veeram Stones Pvt Ltd has applied for Environmental Clearance for the proposed rough stone & Gravel quarry lease over an extent of 1.05.0Ha at SF.No. 192/1 & 192/2 of Sathiyamangalam Village, Kulathur Taluk, Pudukkottai 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.


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3. Earlier EC issued vide – Lr.No.SEIAA-TN/F.No.8239/1(a)/EC.No:4655/2021 dated:30.04.2021.

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

1. The PP shall submit Certified Compliance Report obtained from the office of the concerned IRO, MoEF & CC, Chennai and the PP shall furnish appropriate mitigating measures for the non-compliance items, if any.
2. The PP shall submit the revised quantity with reference to X-Y section of the Production & Development Plan given in the Approved Mining Plan for accommodating the safety parameters.
3. As accepted the PP shall revise CER cost to Rs.8 Lakhs.

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

Agenda No: 414-14

(File No: 10321/2023)

Proposed Rough stone quarry lease over an extent of 1.20.0Ha at SF.No.109(Part-2) of Marandapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. Sri Sai Kesava Enterprises - for Environmental Clearance. (SIA/TN/MIN/430904/2023, Dated: 26.05.2023)

The proposal was placed in 414th meeting of SEAC held on 06.10.2023. 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. Sri Sai Kesava Enterprises has applied for Environmental Clearance for the proposed rough stone quarry lease over an extent of 1.20.0Ha at S.F.No. 109(PART-2) of Marandapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category “B2” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006.
3. Earlier EC issued by DEIAA vide – Lr.No.03/DEIAA-KGI/EC, No.46/2018 dated:27.08.2018.


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4. The PP has furnished "No pit letter" vide RoC.No.194/2018/Mines dated 16.08.2023.

File No	10321/2023	Category	B2
	SIA/TN/MIN/430904/2023, Dated:26.05.2023		
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M/s. Sri Sai Kesava Enterprises Prop:R.Chenna Keshava, No.110/3B, Marandapalli village, Shoolagiri Taluk, Krishnagiri District-635117
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone quarry
3.	S.F Nos. of the quarry site with area break-up	:	109(Part-2)
4.	Village in which situated	:	Marandapalli
5.	Taluk in which situated	:	Shoolagiri
6.	District in which situated	:	Krishnagiri
7.	Extent of quarry (in ha.)	:	1.20.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°42'25.43"N to 12°42'30.42"N 78°00'44.24"E to 78°00'47.10"E
9.	Topo Sheet No.	:	57- L/02
10.	Type of mining	:	Opencast Semi-mechanized Mining
11.	Life of Project	:	10 Years
	Lease Period	:	10 Years
	Mining Plan Period	:	5 Years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³	:	Rough stone 5,71,760m ³ Topsoil 12,240m ³
	Minable Resources m ³	:	2,13,220m ³ 7,920m ³
	Annual Peak Production in m ³	:	38,640m ³ 5580m ³
	Maximum Depth in meters	:	31m (7m AGL + 24m BGL)
13.	Depth of water table	:	85m BGL
14.	Man Power requirement per day:	:	18 Employees

15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	2 KLD 1 KLD 0.50 KLD 0.50 KLD		
16.	Power requirement	:	TNEB 1,54,816 Liters of HSD for the entire period of life		
17.	Precise area communication approved by the District collector, Department of G&M.	:	Na.Ka.No.194/2018/Kanimam, Dated:09.03.2018		
18.	Mining Plan approved by Deputy Director, Department of G&M.	:	Roc.No. 194/2018/Mines, Dated:02.05.2018		
19.	500m Cluster Letter approved by the Deputy Director, Department of G&M.	:	Roc.No. 194/2018/Mines, Dated:25.07.2023		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 18.07.2023		
21.	Project Cost (excluding EMP cost)	:	Rs. 67,60,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough stone	Topsoil
		:	Max Total in m ³	1,46,800m ³	7,920m ³
		:	Annual Max in m ³	39,000m ³	5,580m ³
:	Max Depth in mtrs	31m (7m AGL + 24m BGL)			
23.	EMP cost (in Rs. Lakh).	:	Rs.47.93 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 39,000m³ of Rough stone and 5,580m³ of Top soil by maintaining the ultimate depth of mining up to 31m and subject to the standard conditions as per the Annexure I of this minutes & normal


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conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 200
3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
4. The PP shall furnish 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. 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. As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government High School, A.Settipallii Village before obtaining CTO from TNPCB.

Agenda No: 414-15

(File No: 10294/2023)

Proposed Construction of Non - High Rise Residential Building at S.F.Nos. 20/2, 22, 48/1A1, 48/1A2, 48/1A3, 48/1B1, 48/2A, 48/2B, 48/3, 49/1C1, 51/2 & 52/3B2 of Goparasanallur Village, Poonamallee Taluk, Thiruvallur District, Tamil Nadu by M/s. Casa Grande Civil Engineering Private Limited – For Environmental Clearance. (SIA/TN/INFRA2/438916/2023, Dated: 02.08.2023)

The proposal was placed for appraisal in this 414th meeting of SEAC held on 06.10.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The Proponent, M/s. Casa Grande Civil Engineering Private Limited has applied for Environmental Clearance for the Proposed Construction of Non - High Rise Residential Building at S.F.Nos. 20/2, 22, 48/1A1, 48/1A2, 48/1A3, 48/1B1, 48/2A, 48/2B, 48/3, 49/1C1, 51/2 & 52/3B2 of Goparasanallur Village, Poonamallee Taluk, Thiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category “B2” of Item 8(a) “Building and Construction Projects” of the Schedule to the EIA Notification, 2006, as amended.

Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. The environmental clearance is sought for Construction of Non - High Rise Residential Building at S.F.Nos. 20/2, 22, 48/1A1, 48/1A2, 48/1A3, 48/1B1,


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48/2A, 48/2B, 48/3, 49/1C1, 51/2 & 52/3B2 of Goparasanallur Village, Poonamallee Taluk, Thiruvallur District, Tamil Nadu by the PP M/s. Casa Grande Civil Engineering Private Limited.

2. M/s. Eco Tech Labs Pvt Ltd is the EIA Consultant for the project.
3. Total plot area of the project is 19,460 Sqm and built-up area is 55,305.44 Sqm respectively.
4. Maximum number of floors will be 5 Floors and maximum height of the building will be 18.15m.
5. Total Saleable DU's (dwelling units) is 283 nos.
6. The project proposal falls under Category-8(a) of EIA Notification, 2006 (as amended).
7. Salient features of the project as submitted by the project proponent:

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	19,460	SQMT
2	Proposed Built Up Area	55,305.44	SQMT
3	Total no of Saleable DU's/Villas	283	No.
4	Max Height - (Height of tallest block)	18.15	M
5	No of Building Blocks (Residential + Community facilities)	1 block	
6	Max No of Floors	5	No.
7	Expected Population (XXX Residential + XXXX Floating)	1811 (1632 residential + 163 visitors + 416 maintenance staffs)	No.
8	Total Cost of Project	Rs. 107.51 Crores	CR
9	EMP Cost	Capital cost – Rs. 269.4 Lakhs Recurring cost – Rs. 46.5 Lakhs	

10	CER Cost	Rs. 110 lakhs will be spent for Govt Schools and Govt Hospital	
AREAS			
11	Permissible Ground Coverage Area (xx%)	NA	SQMT
12	Proposed Ground Coverage Area (34%)	6577.16	SQMT
13	Permissible FSI Area (xxx)	39072.25	SQMT
14	Proposed FSI Area	39072.25	SQMT
15	Other Non FSI Areas - including basement area etc.	16233.19	SQMT
16	Proposed Total Built Up Area	55305.44	SQMT
WATER			
17	Total Water Requirement	244	KLD
18	Fresh water requirement	151	KLD
19	Treated Water Requirement	199	KLD
20	Wastewater Generation	209	KLD
21	Proposed Capacity of STP	220	KLD
22	Treated Water Available for Reuse	93	KLD
23	Treated Water Recycled	199	KLD
24	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	106	KLD
RAINWATER HARVESTING			
25	Rainwater Harvesting - Recharge Pits	11	No.
26	Rainwater Harvesting Sump Capacity	130	M ³
PARKING			
27	Total Parking Required as / Building Bye Laws	363	ECS
28	Proposed Total Parking	307 cars, 110 two wheeler parking	ECS
29	Parking in Basements	417	ECS


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GREEN AREA			
30	Proposed Green Area (Minimum 15.0% of plot area)	3113.6 (16%)	SQMT
	Total area	19460	SQMT
	Existing trees on plot	-	
	Number of trees to be planted	250	Nos.
	Number of trees to be transplanted/cut	-	
SOLID WASTE MANAGEMENT			
31	Total Solid Waste Generation	0.852	TPD
32	Organic waste	0.341	TPD
33	Mode of Treatment & Disposal	Will be treated in Organic Waste Converter and used as manure for gardening	TPD
34	Quantity of Sludge Generated from STP & Disposal	11	KG/DAY
35	Quantity of E-Waste Generation & Disposal	-	KG/DAY
36	Quantity of Hazardous waste Generation & Disposal	-	LPD
POWER / GREEN POWER			
37	Total Power Requirement	2670	KVA
38	DG set backup	1 No of 200 KVA, 1 No of 275 KVA	KVA
39	No of DG Sets	2	No.
40	Solar Panels – Roof Coverage	50	%
41	Hot Water Requirement	4.5 KLD	
	Of which met by Solar Panels		

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION


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Total Saleable Du's	283	1 BHK - 4 Nos. 2 BHK - 5 Nos. 3 BHK - 6 Nos. 4 BHK - 7 Nos	1632
Total			
Non Residential			
CLUB house (Employees etc.)	Area	-	-
Club	-	-	-
Commercial	-	-	-
Facility Management Staff	-	-	16
Total			
Visitors			163
Residential	-	xx% of Residential Population	
Club/Community Hall	-	xx% of Residential Population	-
Commercial	-	-	-
Total Visitors			
Total Population			1811

Details of CER Activities:

S. No.	CER Activity	Capital cost Allocation (in Rs. Lakhs)	Action Plan
1. Provision of Infrastructure & sanitation facilities such as Hygienic Toilets facilities, Classroom flooring, Furniture's, Environmental awareness books for students in library, Greenbelt development including maintenance of toilets for up to construction phase			
a.	Government Middle School, Seneerkuppam	25	Within 12 months from the date of issue of EC.
b.	Government Primary School, Goparasanallur	25	
c.	Government Higher Secondary School, Seneerkuppam	25	


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2. Chrompet Government Hospital	35	
Total Cost Allocation	110	

RECOMMENDATION OF THE COMMITTEE

The Committee discussed the matter and recommended a grant of environmental clearance for the project proposal as above and subject to the standard conditions as per the Annexure II of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
2. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
3. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
4. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.
5. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
6. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.


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7. The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
8. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
9. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly.
10. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.
11. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.
12. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.


Agenda No: 414-16

(File No: 10301/2023)

Proposed Rough Stone and Gravel quarry lease over an extent of 1.20.0 Ha at S.F.No. 914 (Part) of Kunnur Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru. P. Phinu Thomas – For Environmental Clearance. (SIA/TN/MIN/438408/2023, Dated: 08.08.2023)

The proposal was placed for appraisal in this 414th meeting of SEAC held on 06.10.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. 1.The project proponent, Thiru. P. Phinu Thomas has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent


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of 1.20.0 Ha at S.F.No. 914 (Part) of Kunnur Village, Andipatti Taluk, Theni District, Tamil Nadu.

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

File No	10301 / 2023	Category	B2 / 1(a)			
Sl. No	Salient Features of the Proposal					
1	Name of the Owner/Firm	:	Thiru. P. Phinu Thomas, S/o. Puthiyadath Pothan Thomas, M/s. Theruvath Builders, Executive Partner, Ayyanar Blue Metal, River Road, Gopalapuram, Andipatti Taluk, Theni District - 625 534.			
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	:	914 (Part)			
4	Village in which situated	:	Kunnur			
5	Taluk in which situated	:	Andipatti			
6	District in which situated	:	Theni			
7	Extent of quarry (in ha.)	:	1.20.0 Ha			
8	Latitude & Longitude of all corners of the quarry site	:	9°57'11.28"N to 9°57'20.38"N 77°30'44.36"E to 77°30'48.36"E			
9	Topo Sheet No.	:	58 - G/09			
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			
	Geological Resources m ³ (RoM)	:	As modified by SEAC			
Rough Stone			Gravel	Rough Stone	Gravel	
			6,06,738 m ³	36,772 m ³	3,36,168 m ³	24,012 m ³


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	Minable Resources m ³ (RoM)	:	Rough Stone 1,76,255 m ³	Gravel 26,430 m ³	Rough Stone 1,23,830 m ³	Gravel 17,220 m ³
	Annual Peak Production in m ³	:	Rough Stone 44,692 m ³	Gravel 12,108 m ³	Rough Stone 35,720 m ³	Gravel 6580 m ³
	Ultimate Depth in meters	:	35m below ground level		30m below ground level	
13	Depth of water table	:	45m-50m			
14	Man Power requirement per day:	:	16 Nos.			
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	3.5 KLD 0.5 KLD 1.5 KLD 1.0 KLD 0.5 KLD			
16	Power requirement	:	TNEB			
17	Precise area communication approved by Assistant Director, Department of G&M	:	Na.Ka.No.778/Kanimam/2022, Dated:05.07.2023			
18	Mining Plan approved by Assistant Director, Department of G&M	:	Roc No.778/2022/Mines, Dated:10.10.2023			
19	Department of G&M, Assistant Director 500m Cluster Letter	:	Roc.No.778/2022/Mines, Dated:21.07.2023			
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter furnished			
21	Project Cost (excluding EMP cost)	:	Rs. 40,50,000/-			
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.		
		:		Rough Stone	Gravel	
		:	Max Total RoM in m ³	1,23,830 m ³	17,220 m ³	


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		:	Annual Max RoM in m ³	35,720 m ³	6580 m ³
		:	Max Depth in mtrs	30m below ground level	
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 40.04 lakhs Recurring Cost – Rs. 17.62 lakhs		
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-		

During the presentation, while ascertaining the Mining Plan, the PP was advised to submit the revised mining plan by omitting the S.F. No. 918/2 (P) of 0.63.5 Ha from the extent of 1.83.5 Ha of Kannur Village, Andipatty Taluk and Theni District. Accordingly, the PP has furnished the AD (Mines) letter ROC. No. 778/2022/Mines, dated. 10.10.2023 indicating the deletion of the S.F. No. 918/2 (P) of 0.63.5 Ha for the final approved total quantity of 1,23,830 cbm of Rough stone and 17,220 cbm of Gravel for an ultimate pit depth of 30 m in S.F.No. 914 (P), over an extent of 1.20.0 Ha.

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 35,720 m³ by maintaining the ultimate depth of mining upto 30m 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 not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.

- 3) The PP shall 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) Since the village is situated at a distance of 640 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) As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 6) 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.

- 7) 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 for evolving Ground Water Management, 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.
- 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 below-mentioned school, before obtaining CTO from TNPCB.

CER Activity	CER Cost (Rs./)
Government (Aadhi Thiravidar Nala) High School, Amachiyapuram Village, Andipatti Taluk, Theni District.	
RO- Water plant	50,000/-
Incinerator	10,000/-
Toilet Construction and maintenance	3,90,000/-
Plantation for school ground	20,000/-
Environmental related library books	30,000/-
Total Cost Allocation	Rs.5,00,000/-

Agenda No: 414-17

(File No: 10322/2023)

Proposed Rough Stone quarry lease over an extent of 1.32.0 Ha (Government Poramboke land) at S.F.No. 93/1 of Meenandoddi Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru. S. Chinnanna – For Environmental Clearance. (SIA/TN/MIN/431091/2023, Dated: 27.05.2023)

The proposal was placed for appraisal in this 414th meeting of SEAC held on


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06.10.2023. 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. S. Chinnanna has applied for Environmental Clearance for the Proposed Rough Stone quarry lease over an extent of 1.32.0 Ha (Government Poramboke land) at S.F.No. 93/1 of Meenandoddi Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The PP has reported that no mining activity carried out, only 2m top soil is removed. As per DD (Mines), Krishnagiri vide letter dated 05.10.2023 has reported the following.

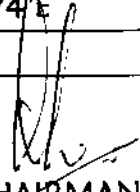
Existing Pit Dimension as on 04.10.2023		
PIT NO.	Area in Sq.Mtr.	Depth in (m)
Pit - I	520	2.0

4. The salient features of the proposal are as follows:

File No	10322 / 2023	Category	B2 / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru. S. Chinnanna. No.1-39A, Machinaickanapalli Village, Panchakshipuram Post, Hosur Taluk, Krishnagiri District - 635 110.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone
3	S.F Nos. of the quarry site with area break-up	:	93/1
4	Village in which situated	:	Meenandoddi
5	Taluk in which situated	:	Hosur
6	District in which situated	:	Krishnagiri
7	Extent of quarry (in ha.)	:	1.32.0 Ha
8	Latitude & Longitude of all corners of the quarry site	:	12°46'45.27"N to 12°46'38.50"N 78°01'5.08"E to 78°01'0.74"E
9	Topo Sheet No.	:	57 - L/01


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10	Type of mining	:	Opencast Mechanized Mining	
11	Life of Project	:	10 years	
	Lease Period	:	10 years	
	Mining Plan Period	:	5 years	
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Rough Stone	Rough Stone
		:	2,87,178 m ³	-
	Mina ble Resources m ³ (RoM)	:	Rough Stone	Rough Stone
		:	85,264 m ³	-
Annual Peak Production in m ³	:	Rough Stone	Rough Stone	
		:	16,150 m ³	-
	Ultimate Depth in meters	:	17m below ground level	-
13	Depth of water table	:	50m below ground level	
14	Man Power requirement per day:	:	18 Nos.	
15	Water requirement:		2.0 KLD	
	1. Drinking water		1.0 KLD	
	2. Utilized water	:	-	
	3. Dust suppression		0.5 KLD	
	4. Green belt		0.5 KLD	
16	Power requirement	:	51003 Liters of HSD	
17	Precise area communication approved by District Collector	:	Na.Ka.No.88/2016/Mines, Dated:01.03.2016	
18	Mining Plan approved by Deputy Director, Department of G&M	:	Roc.88/2016/Mines-1, dated: 20.06.2016	
19	Department of G&M, Deputy Director 500m Cluster Letter	:	Roc.No.88/2016/Mines, dated: 05.10.2023	
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter furnished	
21	Project Cost (excluding EMP cost)	:	Rs. 47,60,000/-	
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Rough Stone

		:	Max Total RoM in m ³	60,088 m ³
		:	Annual Max RoM in m ³	16,150 m ³
		:	Max Depth in mtrs	17m below ground level
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 9,15,000/- Recurring Cost – Rs. 8,97,540/-	
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 of not exceeding 16,150 m³ by maintaining the ultimate depth of mining upto 17m 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 provide strong fencing along the village road side for the said quarry before obtaining the CTO from 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) 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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- 5) 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.
- 6) As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Panchayat Union Primary School, Sulakunta, Berikai (Po) and Panchayat Union Primary School, B.Singiripalli, Shoolagiri Block and Taluk, before obtaining CTO from TNPCB.

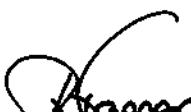
Agenda No: 414 – 18.

(File No: 10295/2023)

Proposed Construction of High Rise Residential Building in S.Nos : 513/1A1B, 7/1, 7/2 of Kundrathur B village, Kundrathur taluk, Kancheepuram district by M/s Casa Grand Fresh Private Limited - For Environmental Clearance. (SIA/TN/MIN/438609/2023, Dt. 30.07.2023)

The proposal was placed for appraisal in 414th meeting of SEAC held on 06.10.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The environmental clearance is sought for Construction of High Rise Residential Building in S.Nos : 513/1A1B, 7/1, 7/2 of Kundrathur B village, Kundrathur taluk, Kancheepuram district by the PP M/s Casa Grand Fresh Private Limited.
2. M/s Ecotech Labs Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is 20274.77 m² and built-up area is 73894.26 m² respectively.


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4. Maximum number of floors will be 12 Floors and maximum height of the building will be 39.45 m.

5. Total Saleable DU's (dwelling units) is 452 nos.

6. Salient features of the project as submitted by the project proponent:

Based on the documents submitted and presentation made by the project proponent along with the consultant, SEAC decided to ask the PP to submit the following additional details for appraising the proposal.

1. The PP shall produce an inundation letter from the WRD with reference to year 2015 water levels, as the River Adyar is flowing nearby.
2. The PP stated that Kundrathur Municipality has given commitment letter for providing drinking water and for giving connection to UGSS is under implementation. As UGSS takes long time to implement, PP shall produce a commitment letter from the nearby Pallavaram Municipality to accept the surplus treated waste water until the UGSS comes into operation. The cost of transportation shall be borne by the PP.

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


Agenda No: 414 -19.

(File No: 10309/2023)

Proposed Rough Stone and Gravel Quarry Extent: 2.48.50ha S.F.Nos.171/5, 8B, 175/4A, 4B, 5B, 6, 7, 176/1 & 2A1 of Nilaiyur Bit-I Village, Thiruparankundram Taluk, Madurai District, Tamil Nadu by Tmt.A.Prema - For Environmental Clearance. (SIA/TN/MIN/439333/2023, Dt.05/08/2023)

The proposal was placed for appraisal in 414th meeting of SEAC held on 06.10.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Tmt.A.Prema has applied for Environmental Clearance for the Rough Stone and Gravel Quarry Extent: 2.48.50ha S.F.Nos.171/5, 8B, 175/4A, 4B, 5B, 6, 7, 176/1 & 2A1 of Nilaiyur Bit-I Village, Thiruparankundram Taluk, Madurai District, Tamil Nadu.


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2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 10 Years. The approved mining plan is for the period of 1st five years & production should not exceed 101500m³ of Rough Stone & 31266m³ of Gravel. The annual peak production is 21700m³ of Rough Stone (5th Year) & 10520m³ of Gravel (2nd Year). The depth of mining is 27m BGL.

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	: Tmt. A. Prema, W/o. S. Alagumaran, No.33B, Kottaisami Nagar, Nilaiyur Bit-I Village, Thiruparankundram Taluk, Madurai District – 625 005
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	: 171/5, 8B, 175/4A, 4B, 5B, 6, 7, 176/1 & 2A1
4.	Village in which situated	: Nilaiyur Bit-I
5.	Taluk in which situated	: Thiruparankundram
6.	District in which situated	: Madurai
7.	Extent of quarry (in ha.)	: 2.48.50ha
8.	Latitude & Longitude of all corners of the quarry site	: 09° 50' 56.5493"N to 09° 51' 01.5567"N 78° 02' 31.1427"E to 78° 02' 41.9546"E
9.	Topo Sheet No.	: 58 - K/01
10.	Type of mining	: Open Cast mechanized mining
11.	Life of Project	: 10 Years
	Lease Period	: 10 Years
	Mining Plan Period	: 10 Years

	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC		
	Geological Resources m ³ (RoM)	:	Rough Stone in m ³	Gravel in m ³	Rough Stone in m ³	Gravel in m ³
			568150 m ³	45452 m ³	497650 m ³	39812 m ³
	Mineable Resources m ³ (RoM)	:	Rough Stone in m ³	Gravel in m ³	Rough Stone in m ³	Gravel in m ³
12.			199490 m ³	31266 m ³	192300 m ³	28858 m ³
	Annual Peak Production in m ³	:	Rough Stone in m ³	Gravel in m ³	Rough Stone in m ³	Gravel in m ³
			21700 m ³	10520 m ³	20400 m ³	10520 m ³
	Maximum Depth in meters	:	27m	-		
13.	Depth of water table	:	57m			
14.	Man Power requirement per day:	:	17 Nos			
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	0.5 KLD 0.3 KLD 0.2 KLD 1.0 KLD			
16.	Power requirement	:	TNEB			
17.	Precise area communication approved by the Deputy Director / Assistant Director (i/c) Department of G&M.	:	Na.Ka.No.27/Kanimam/2022 Dated: 06.06.2023.			
18.	Mining Plan approved by Deputy Director / Assistant Director (i/c) Department of G&M.	:	Rc.No.27/Mines/2022-1, Dated: 20.07.2023			
19.	Department of G&M, Deputy Director / Assistant	:	Rc.No.27/Mines/2022-1, Dated: 20.07.2023			


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	Director (i/c). 500m Cluster Letter			
20.	VAO Certificate Regarding Structures within 300m Radius		Dt: 15.06.2023	
21.	Project Cost (excluding EMP cost)	:	Rs.67.05 Lakhs	
22.	EC Recommendation	:	Validity	
			30 years subject to the following upper limits.	
			Rough Stone in m ³	Gravel in m ³
		:	Max Total RoM in m ³	192300 m ³
:	Annual Max RoM in m ³	20400 m ³	10520 m ³	
:	Max Depth in mtrs	27 m BGL		
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 31.244 Lakhs Recurring Cost - Rs.14.31 Lakhs @ 5% inflation for every Year till life of the mine.	
24.	CER cost (in Rs. Lakh).	:	Rs.5Lakhs	

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 20400m³ of Rough Stone & 10520m³ of Gravel by restricting the ultimate depth of mining upto 27m 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.


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2. The proponent shall not carry out mining in the section XIY1-IJ and the revised approved mining plan approved by AD/Mines must be submitted before obtaining CTO from TNPCB.
3. 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.
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 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.
6. 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.
7. 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.

8. 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, Thoppur Village, Thiruparangundram Saragam, Madurai District before obtaining CTO from TNPCB.

Agenda No.414 – 20

(File No: 10323/2023)


Proposed Rough stone quarry lease over an extent of 1.00Ha (Government Poramboke land) in S.F.No: 300/1(B-III), Balasamuthiram Village, Palani Taluk, Dindigul District, Tamil Nadu by Thiru P.Thangaraj - For Environmental Clearance. (SIA/TN/MIN/438609/2023, Dt.30/07/2023)

The proposal was placed for appraisal in 414th meeting of SEAC held on 06.10.2023. 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 Lr.No.DEIAA/DGL/EC.No.080/2017 dated 02.08.2018 (EC Valid up to 01.08.2024) for production of 58845 m3 of Rough stone, & the depth of mining upto 51m BGL under B2 category (<25 Ha).
2. MoEF&CC OM Dt: 28.04.2023
3. Now, the project proponent, Thiru P.Thangaraj has applied for reappraisal of Environmental Clearance for the proposed Rough stone quarry lease over an extent of 1.00Ha in S.F.No:300/1(B-III), Balasamuthiram Village, Palani Taluk, Dindigul District, Tamil Nadu.
4. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
5. The precise area communication was issued for the period of 5 Years. The approved mining plan is for the period of 1st five years & production should not exceed 58845m3 of Rough Stone. The annual peak production is 14680m3 of Rough Stone (5th Year). The depth of mining is 46m (31m AGL & 15m BGL).

6. AD letter vide Rc.No.686/2017 (Mine) Dated: 04.10.2023 furnished remarks that no lease deed executed with District Collector & no operation is being carried out in the proposed mining area.

Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru P.Thangaraj S/o. T.Palanisamy, No.17/11D, Lakshmpuram, Palani Taluk, Dindigul District, Tamil Nadu
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone
3.	S.F Nos. of the quarry site with area break-up	:	300/1(B-III)
4.	Village in which situated	:	Balasarathiyam
5.	Taluk in which situated	:	Palani
6.	District in which situated	:	Dindigul
7.	Extent of quarry (in ha.)	:	1.00Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°24'32.92"N to 10°24'36.18"N 77°30'46.46"E to 77°30'51.53"E
9.	Topo Sheet No.	:	58 F/11
10.	Type of mining	:	Opencast Mechanized of Mining
11.	Life of Project	:	5 Years
	Lease Period	:	5 Years
	Mining Plan Period	:	5 Years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³ (RoM)	:	Rough Stone in m ³ 383360m ³
		:	Topsoil in m ³ 2070 m ³
	Mineable Resources m ³ (RoM)	:	Rough Stone in m ³ 58845m ³
:		Topsoil in m ³ 2070 m ³	


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	Annual Peak Production in m ³	: Rough Stone in m ³	Topsoil in m ³
		: 14680 m ³	2070 m ³
	Maximum Depth in meters	: 51m (36m AGL &15mBGL).	
13.	Depth of water table	: 55m-53m	
14.	Man Power requirement per day:	: 16 Nos	
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	: 5.0 KLD 1.0 KLD 3.0 KLD 1.0 KLD	
16.	Power requirement	TNEB	
17.	Precise area communication approved by District Collector	: Na.Ka.No.686/2017(Kanimam), dt: 21.01.2018	
18.	Mining Plan approved by Assistant Director, Department of G&M.	: Rc.No.686/2017(Mines), dt:18.04.2018	
19.	500m Cluster Letter by Assistant Director, Department of G&M.	: Rc.No.686/2017(Mines), dt:18.04.2018	
20.	VAO Certificate Regarding Structures within 300m Radius	Dt: 10.05.2022	
21.	Project Cost (excluding EMP cost)	: Rs.54.12 Lakhs	
22.	EC Recommendation	As per approved mining plan	
		: Rough Stone in m ³	Topsoil in m ³
		: Max Total RoM in m ³	58425 m ³ 2070 m ³
		: Annual Max RoM in m ³	14260 m ³ 2070 m ³
		: Max Depth in mtrs	51m (36m AGL &15mBGL)
23.	EMP cost (in Rs. Lakh).	: Capital Cost – Rs. 19.80 Lakhs	

		Recurring Cost - Rs.12.49 Lakhs @ 5% inflation for every Year till life of the mine.
24.	CER cost (in Rs. Lakh).	: Rs.4 Lakhs.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production shall not exceed 14260 m³ of Rough Stone by restricting the ultimate depth of mining upto 51m (31m AGL & 15m 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 PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.


4. The PP shall furnish 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 carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation. If applicable.
6. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
7. As accepted by the Project Proponent the CER cost of Rs. 4 lakhs and the amount shall be spent for the Government Primary School, Balasamuthiram Village before obtaining CTO from TNPCB.
8. In addition to that the PP shall remit Rs. 2.0 lakhs to DFO, Dindigul as Conservation/mitigation measures for the Kodaikanal Wildlife Sanctuary since the site is within 10km radius and the same shall be included in the EMP.

Agenda No: 414 – 21.

(File No: 10330/2023)

Existing Rough Stone Quarry Extent: 2.45.0ha S.F. No:81/1, Ittikal Agaram Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. N.Santhamoorthy - For Environmental Clearance. (SIA/TN/MIN/440397/2023, Dt. 14/08/2023)

The proposal was placed for appraisal in 414th meeting of SEAC held on 06.10.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:


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1. Earlier, the PP has obtained EC from Lr.No. SEIAA-TN/F.No.5244/1(a)/EC.No.3238/2016, Dated: 06.07.2016 (EC Valid up to 05.07.2022) for the Rough Stone and Gravel Quarry Extent: 2.45.0ha S.F.No:81/1, Ittikal agaram Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu for production of 1,45527 cu.m of Rough stone, & the depth of mining upto 16m BGL.
2. Now, the project proponent, Thiru.N.Santhamoorthy has applied for Environmental Clearance for the Rough Stone and Gravel Quarry Extent: 2.45.0ha S.F.No:81/1, Ittikal agaram Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
3. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
4. The precise area communication was issued for the period of 10 years. The approved mining plan is for the period of 2nd five years & production should not exceed 467638m³ of Rough Stone. The annual peak production is 142961m³ of Rough Stone (4th Year). The depth of mining upto 50m BGL.

Based on the presentation and documents furnished by the project proponent, SEAC decided to defer seeking following additional particulars

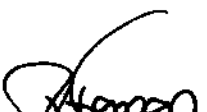
1. The PP shall submit the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and also to furnish mitigation measures/remedial action plan with the budget allocation for the non-compliance stated in the CCR.

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

Agenda No: 414-22

(File No: 10282/2023)

Proposed Construction of Gated Community (Residential & Commercial) Building Project with 50 blocks and having Built up area of 38,882.21 Sq.m at S.F.Nos.: 9/1B, 10/2A1B & 13/1A of Kannankurichi Village, Salem Taluk, Salem District, Tamil Nadu by M/s. Naaval Properties and Developers LLP- For Environmental Clearance. (SIA/TN/INFRA2/438488/2023, 03.08.2023).


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The proposal was placed in the 414th Meeting of SEAC held on 06.10.2023. 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. Naaval Properties and Developers LLP has applied for Environmental Clearance for the Proposed Construction of Gated Community (Residential & Commercial) Building Project at S.F.Nos.: 9/1B, 10/2A1B & 13/1A of Kannankurichi Village, Salem Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification,2006.
3. Initially the applicant had planned to construct the residential building of 41 Villas, 1 clubhouse and 1 Gym with the total built-up area of 13,160.65 Sq. m. in total land area 36205 Sq.m.
4. Block 1 to 41- Villas, 1 Block for Club House and 1 Block for Gym (For 41 Villa, club house and gym separate approval obtained from DTCP vide No. 3213/2021 dated 18.03.2022).

Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -


1. The environmental clearance is sought for Proposed Construction of Gated Community (Residential & Commercial) Building Project at S.F.Nos.: 9/1B, 10/2A1B & 13/1A of Kannankurichi Village, Salem Taluk, Salem District, Tamil Nadu by the PP M/s. Naaval Properties and Developers LLP.
2. M/s. Ecotech Labs Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is 36205 m² and built-up area is 38882.21 m² respectively.
4. Maximum number of floors will be B+G+05 and maximum height of the building will be 18.29 m.
5. Total Saleable DU's (dwelling units) is 92.
6. Salient features of the project as submitted by the project proponent:


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PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Plot Area	36205	SQMT
2	Proposed Built Up Area	38882.21	SQMT
3	Total no of Saleable DU's/Villas	92	No.
4	Max Height - (Height of tallest block)	18.29	M
5	No of Building Blocks (Residential + Community facilities)	50	
6	Max No of Floors	5	No.
7	Expected Population (XXX Residential + XXXX Floating)	639 Residential + 64 Visitors and maintenance) (575 Residential + 64 and maintenance)	No.
8	Total Cost of Project	Rs. 95.0018	CR
9	Project Activity	Construction of Gated Community (Residential & Commercial) Building Project with 50 blocks and having Built up area of 38,882.21 Sq.m	
AREAS			
1	Permissible Ground Coverage Area (xx%)	50 %	SQMT
2	Proposed Ground Coverage Area (xx%)	12529.64 (35 %)	SQMT
3	Permissible FSI Area (xxx)	72410	SQMT
4	Proposed FSI Area	34265.45	SQMT
5	Other Non FSI Areas - including basement area etc.	4616.76	SQMT
6	Proposed Total Built Up Area	38882.21	SQMT
WATER			
1	Total Water Requirement	122	KLD
2	Fresh water requirement	52	KLD


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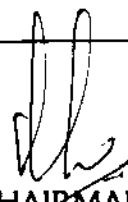

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3	Treated Water Requirement	70	KLD
4	Wastewater Generation	74	KLD
5	Proposed Capacity of STP	85	KLD
6	Treated Water Available for Reuse	70	KLD
7	Treated Water Recycled	70	KLD
8	Surplus treated water to be discharged in Municipal Sewer with Prior permission, if any	0	KLD
RAINWATER HARVESTING			
1	Rainwater Harvesting - Recharge Pits	44	No.
2	Rainwater Harvesting Sump Capacity	220	M ³
PARKING			
1	Total Parking Required as / Building Bye Laws	387 cars , 16 two wheelers	ECS
2	Proposed Total Parking	395 cars , 20 two wheelers	ECS
3	Parking in Basements	-	ECS
GREEN AREA			
1	Proposed Green Area (Minimum 15.0% of plot area)	5511.29 (16%)	SQMT
2	Total area	36205	SQMT
3	Existing trees on plot	100	nos
4	Number of trees to be planted	300	nos
5	Number of trees to be transplanted/cut	0	
SOLID WASTE MANAGEMENT			
1	Total Solid Waste Generation	0.358	TPD
2	Organic waste	0.143	TPD
3	Mode of Treatment & Disposal	Will be treated in Organic Waste Converter and used	TPD

		as manure for gardening.	
4	Quantity of Sludge Generated from STP & Disposal	8	KG/DAY
5	Quantity of E-Waste Generation & Disposal	0	KG/DAY
6	Quantity of Hazardous waste Generation & Disposal	0	LPD
POWER / GREEN POWER			
1	Total Power Requirement	1364 KVA	KW
2	DG set backup	1 No. of 360 KVA, 2 Nos. of 50 KVA	KVA
3	No of DG Sets	3	No.
4	Solar Panels – Roof Coverage	50	%
5	Hot Water Requirement	1.47	KLD
	Of which met by Solar Panels		

POPULATION			
	DU'S	POP/DU	TOTAL POPULATION
Residential			
Total Saleable Du's	92		575
Total			
Non Residential			
CLUB house (Employees etc.)			
Club			
Commercial			
Facility Management Staff			
Total			
Visitors			



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Residential	10% of total population	xx% of Residential Population	58
Club/Community Hall	-	xx% of Residential Population	
(Maintenance Staff)	-		6
Total Visitors	-		
Total Population	-		639
EMP	Construction phase: 0.143 CR Operation Phase: Capital – 1.021 CR Recurring – 0.2558 CR		
CER	1.0 CR		

S.N o.	Activity	Amount in INR Lakhs (To be spent within 1 year from the date of issue of EC)
1	Govt.Hr.Sec.School.Kannankurichi– 1.57 km, Improvement of school infrastructure, ✓ Sanitation facility, ✓ library, Drinking water treatment plant, ✓ Solar lighting & smart class (LED Projector with computer) Furniture, development of sports facilities, ✓ Greenbelt development with in school campus, Additional classrooms for schools.	20
2	Panchayat Union Middle School, Vinayakampatti– 2.26 km, Improvement of school infrastructure, ✓ Sanitation facility, ✓ library, drinking water treatment plant, ✓ Solar lighting & smart	20


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	class (LED Projector with computer Furniture, development of sports facilities, ✓ Greenbelt development with in school campus, Additional classrooms for schools.	
3	Towards Montfort Community Tribal School, Kombu Thooki, Yercaud, Salem. Improvement of school infrastructure, ✓ Sanitation facility, ✓ library, drinking water treatment plant, ✓ Solar lighting & smart class (LED Projector with computer Furniture, development of sports facilities, ✓ Greenbelt development with in school campus, Additional classrooms for schools.	60
	Total	INR 100 Lakhs

RECOMMENDATION OF THE COMMITTEE


The Committee discussed the matter and recommended a grant of environmental clearance for the project proposal as above and subject to the standard conditions as per the Annexure II of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

Additional Conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
2. PP shall submit the commitment letter from the local body for supply of fresh water before obtaining CTE from TNPCB.
3. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
4. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely

- (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
5. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.
 6. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
 7. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.
 8. The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
 9. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
 10. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly.
 11. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.
 12. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.
 13. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.


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Agenda No: 414-23

(File No.10404/2023)

Proposed Expansion of Existing Integrated Industrial Township from 130.3577 Ha to 140.509 Ha at S.F.Nos. 14, 16, 19, 152, 143/2B7, 148/2A, 151/1, etc., of Panchanthiruthi Village, S.F.Nos. 72, 78, 79, 86, 87, 88, 91, 93, 95 etc., of Kunnappattu Village, S.F.Nos. 173/5B, 174/7, 174/5, etc., of Paiyanur Village & S.F.No.4/6 of Amur Village Chengalpattu Taluk, Kancheepuram District, Tamil Nadu by M/s. One Hub (Chennai) Private Limited – For Terms of Reference (SIA/TN/INFRA2/444086/2022 dated: 14.09.2023)

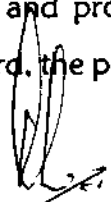
The proposal was placed in this 414th Meeting of SEAC held on 06.10.2023. The project details furnished by the proponent are available on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. One Hub (Chennai) Private Limited has applied for Terms of Reference for the Proposed Expansion of Existing Integrated Industrial Township from 130.3577 Ha to 140.509 Ha at S.F.Nos. 14, 16, 19, 152, 143/2B7, 148/2A, 151/1, etc., of Panchanthiruthi Village, S.F.Nos. 72, 78, 79, 86, 87, 88, 91, 93, 95 etc., of Kunnappattu Village, S.F.Nos. 173/5B, 174/7, 174/5, etc., of Paiyanur Village & S.F.No.4/6 of Amur Village Chengalpattu Taluk, Kancheepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 8(b) "Townships & Area Development Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the General Manager, Apricot Realtors Pvt. Ltd vide Lr.No.SEIAA-TN/F-468/EC/8(b)/122/2012 dated.01.11.2012 for the development of Integrated Industrial Township in Chengalpattu Taluk with plot area 130.3577 Ha and built-up area 8,84,970m².
4. Later, name change amendment (from Apricot Realtors Pvt. Ltd to M/s. One Hub (Chennai) Pvt. Ltd) was issued vide Lr.No.SEIAA-TN/F-468/8(b)/EC-122-amend/2012/2016 dated.15.07.2016.
5. Now, based on the increased demand for FMCG products, the proponent has purchased an area of 25.085 acres abutting the existing site and proposes to expand the existing Integrated Industrial Township. In this regard, the proponent


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has submitted an application seeking Terms of Reference under 'B1' category Based on the presentation made by the proponent and the documents furnished, SEAC decided to recommend the proposal for the grant of Terms of Reference (TOR), subject to the following TORs, in addition to the standard terms of reference for EIA study and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The project proponent shall submit a Certified Compliance Report as per the MoEF&CC O.M dated.08.06.2022 for the EC obtained earlier.
2. The proponent shall furnish Report of Analysis (RoA) for the existing STP & ETP certified by TNPCB.
3. The proponent shall furnish complete details of the industries existing and proposed inside the Industrial Township. The proponent shall also furnish details on whether any EC attracting industries are existing/proposed inside the Industrial Township.
4. The proponent shall furnish a detailed comparison on the previous baseline data submitted for obtaining EC in the year 2012, the projected value as per the EIA report submitter earlier and the actual values recorded.
5. Details regarding carbon footprint and the measures taken/ proposed towards achieving net zero carbon emission shall be discussed in detail in the EIA Report.
6. As a part of Corporate Environment Responsibility, the proponent shall make arrangements towards beautifying Tiger Lily Lake situated adjacent to the proposed project site, in consultation with Auroville Foundation.
7. The PP shall explore construction of pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a structure which was crucial to the overall eco-system.
8. Commitment letter from competent authority for supply of water shall be furnished.

9. Copy of the village map, FMB sketch and "A" register shall be furnished.
10. Detailed Evacuation plan during emergency/natural disaster/untoward accidents shall be submitted.
11. The space allotment for solid waste disposal and sewage treatment & grey water treatment plant shall be furnished.
12. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
13. Details of the E-waste management plan shall be prepared as per E-waste Management Rules, 2016 and shall be furnished.
14. Details of the rain water harvesting system with cost estimation should be furnished.
15. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
16. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should not be less than 15% of the total land area of the project.
17. The proponent shall furnish the specific plan for the plantation.
18. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.
19. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.


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20. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modeling for the ground water, emission, noise and traffic.

21. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall furnish the detailed EMP.

Agenda No: 414 - T.A - 01


(File No. 6353/2018)

Existing Black Granite (Dolerite) quarry lease over an extent of 1.12.0Ha at SF.No. 6/5, 7/2A, 7/4, 7/5 & 7/7 of Kunnam Village, Vanur Taluk, Villupuram District, Tamil Nadu by Thiru. S. Jayapal, M/s. Satheesh Mines and Industries – Site Inspection Report for Environmental Clearance. (SIA/TN/MIN/43094/2018)

The proposal was placed in 414th Meeting of SEAC held on 06.10.2023. 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, Thiru. S. Jayapal, M/s. Satheesh Mines & Industries has applied for the Environmental Clearance for Existing Black Granite quarry over an extent of 1.12.0 Ha at S.F.No.6/5, 7/2A, 4, 5 & 7 of Kunnam Village, Vanur Taluk, Villupuram District, Tamil Nadu.
2. The project/activity is covered under Category “B” of Item 1 (a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. ToR under violation was obtained vide Lr. No. SEIAA-TN/F.No. 6353/TOR – 348/2018, dated: 14.05.2018.
4. Amendment ToR obtained vide Lr No. SEIAA-TN/F-6353/SEAC-CXVIII/TOR-348(A)/2018 Dt. 30.07.2018.
5. The PP has furnished the EIA Report under violation indicating the ‘High - level damage’ for the ecological assessment & EMP measures due to the mining operations carried out for the violation period in the mines in accordance with the MoEF & CC Notification No. S.O.804 (E), dated. 14.03.2017.
6. Earlier, the proposal was placed on the 341st SEAC meeting held on 29.12.2022. Based on the presentation made and documents furnished by the


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project proponent, the SEAC decided to make site inspection by the sub-committee to be constituted by the SEAC to assess the present status of the project and environmental settings as the proposal falls under violation category. Further the subcommittee will assess the ecological damage and to check the Remedial Plan & Community Augmentation Plan submitted by the PP during the inspection. On the receipt of the sub-committee report, further deliberation will be carried out.

Besides, the SEIAA shall immediately initiate take action u/s 19 of E(P) Act 1986 against the PP for the committed violation.

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr.No.SEAC-TN/6353/ Site Inspection/2022 dated: 29.12.2022.; based on Minutes of the 341st SEAC Meeting, held on 29.12.2022, to inspect and study the field condition for the proposal seeking EC for the Existing Black Granite quarry over an extent of 1.12.0 Ha at S.F.No.6/5, 7/2A, 4, 5 & 7 of Kunnam Village, Vanur Taluk, Villupuram District, Tamil Nadu. The Committee comprised of Thiru. Velazhagan D, Member, SEAC.

M/s. Satheesh Mines and Industries having registered office at No.14, Angeripalayam Road, SAK Nagar, Tiruppur District is a Partnership Firm managed by S. Jayabal, S/o Mr. Srinivasa Naidu (Partner). They have been granted mining lease from the State Government over an extent of 1.12.0 Hectares in S.F. No: 6/5, 7/2A, 7/4, 7/5 & 7/7, Kunnam village, Vanur Taluk, Villupuram district for quarrying Black granite(Dolerite) vide GO (3D) No. 3 Industries (MMB-1) Dept. dated 09.02.2005 for the period of 20 years.

Sl. No	Sequence of Events	Date
1.	ToR applied under violation category Online Proposal No.: SIA/TN/MIN/27359/2018. SEIAA File No. 6353/2018	02.04.2018
2.	ToR granted under violation category vide SEIAA-TN/F.No.6353/TOR-348/2018	14.05.2018


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3.	Public Hearing Conducted	As per MoEF&CC: OM F.No.22- 28/2020-IA.III dated 12.11.2020, PP requested SEAC to exempt the project from PH
4.	EC Application applied vide Online Proposal No. IA/TN/MIN/67051/2017	29.07.2017
5.	341 th SEAC meeting held on	29.12.2022
6.	SEAC sub-committee visited the area vide SEAC – TN/1260 Site Inspection/2022, dt.09.04.2023	09.04.2023

Mining Lease Details

Sl. No.	ML Grant	ML Grant Reference	Validity	
			From	To
1	Initial Grant	G.O (3D) No. 3 Industries (MMB-1) Dept. dated 09.02.2005	14.03.2005	13.03.2025
2	Renewal lease	Nil	Nil	Nil

Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval by CGM Reference
1	Mining Plan	2005-2010	Letter No.10312/MM9/2003 dated 08.12.2004
2	1 st Scheme of Mining	2010-2015	Deemed approval under Rule 18(2) of GCDR 1999
3.	2 nd Scheme of Mining	2015-2020	
4.	3 rd Scheme of Mining	2020-2025	

Past Production Details

S.No	Year	Proposed Production in m ³	Actual production achieved in m ³
Mining Plan	2005-2006	300	---
	2006-2007	300	---
	2007-2008	300	---
	2008-2009	300	---
	2009-2010	300	---
	Total	1500	---
1 st scheme of mining	2010-2011	100	155
	2011-2012	100	99
	2012-2013	100	346
	2013-2014	100	165
	2014-2015	100	338
	Total	500	
2 nd scheme of mining	2015-2016	---	298.829
	2016-2017	---	254.488
	2017-2018	691	---
	2018-19	717	---
	2019-20	717	---
	Total	2125	---
Grand Total		4125	1656.31

❖ Production after 15.01.2016 up to 10.1.2017 = 254.488 M³

❖ Penalty Amount from the Dept. of Geology and Mining = 1,01,40,329 Lakhs *

Recoverable production @20% of ROM.

Proposed Production Details


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Year	Waste rock	Rom (m ³)	Production @ 20% (m ³)	Rejects @ 80% (m ³)	Ore to overburden ratio
2020-21	1332	2052	410	1642	1 : 7.25
2021-22	---	1572	315	1257	1 : 3.99
2022-23	---	2392	478	1914	1 : 4.00
2023-24	---	2496	499	1997	1 : 4.00
2024-25	---	2112	422	1690	1 : 4.00
TOTAL	1332	10624	2124	8500	1 : 4.62

M/s. Satheesh Mines and Industries has operated Villupuram granite quarry during 2015-2017(Violation period) and few quantities of granite. Operating the quarry after 15.01.2016 without EC is the Violation. Lease is not in operation since 15.01.2017

OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION

1. The granite quarry of M/S. SATHEESH MINES AND INDUSTRIES over an extent of 1.12.0 Ha is located in Kunnam Village, Vanur Taluk, Villupuram District.
2. As submitted and verified, the mining Lease was under G.O (3D) No.3 Industries (MMB-1) Department dated 09.02.2005 for a period of 20 years. The lease deed was executed on 14.03.2005 and will expire on 13.03.2025. The mine was opened on 14.03.2005.
3. A copy of the present SOM 2020-2025 were submitted for approval. Any Mining Plan/Scheme if not approved within 90 days, the lessee shall continue the quarry operation and considered as deemed approval as per Rule 18 (5) of Granite Conservation and Development Rules, 1999.


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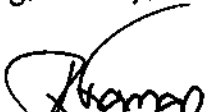

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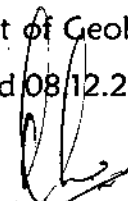
4. No consent from TNPCB was obtained for the Mine.
5. The Lease is accessible from National Highway-32 which runs at a distance of 6.91km East direction from the Lease. The village road is located at the distance of 140m in south direction and it connects the SH 578 in south east direction respectively.
6. Habitation is located at the distance of 0.38km from the Lease in east direction.
7. Few quarries located within 500m radius
8. The proponent is developing fencing around lease boundary.
9. Mine is not in operation and Pit is filled with rain water.
10. As reported, the mine is not in operation since Jan 10, 2017.
11. The mine offices, Rest Shelter, First Aid facility, are available adjacent to mining lease area.
12. Garland drains will be developed around the Pit are covered with soil.
13. No Top Soil or Over Burden dump is noticed in the Lease area.
14. Developed Green belt is noticed in around mine offices, Rest Shelter, First Aid facility. However, PP has now planted new saplings along the peripheries of the Lease.
15. The Project has a Qualified First Class Mines Manager, Second Class Mines Manager, Mine Mate and Geologist who were present for discussions during the Inspection.
16. As informed, environmentally friendly Mining activity, mechanized method of quarrying has been carried out to winning of minerals and the quarry has reached up to a depth of 36 m BGL and no ground water- table intersection was encountered. Mineral transportation route exists to reach SH 136 for the transportation of minerals.

(Any letter obtained from the AD –Mines on closure of quarrying activities & last permit issued date, etc. Because it was quoted as 10th Jan 2017 as the quarry was stopped. What is the proof? How much quantity exploited after 15th January 2016 as per the records of AD-Mines?)

Status of Mining Operation

The Mining activities were stopped from 10.01.2017 and there was no production from this Mine since then. The mining plan was approved by Department of Geology and Mining, Guindy, Chennai vide Letter No. No.10312/MM9/2003 dated 08/12.2004. The


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first scheme of mining was prepared for the year 2010 – 2015. To comply with the Rule 18(3) of GCDR 1999, the present scheme of mining was submitted for the period 2020-2025. Any Mining Plan/Scheme if not approved within 90 days, the lessee shall continue the quarry operation and considered as deemed approval as per Rule 18 (5) of Granite Conservation and Development Rules, 1999. Consents to Operate from Tamil Nadu Pollution Control Board (TNPCB) are to be obtained after getting EC from SEAC.

Violation

M/s Satheesh Mines and Industries continued to operate the mines without obtaining Environment Clearance (EC) after 15.01.2016 under EIA Notification, 2006 and declared as violation case as per MoEF CC Notification S.O 804(E) dated 14.03.2017. How many days the PP have operated after 15.01.2016 upto 10 Jan 2017

Penalty for violation

Affidavit has been submitted in proper format to pay Penalty as per the OM issued by the MOEFCC - S.O 804(E) dated 14.03.2017 or court order as decided by the SEAC-TN. 100% penalty is claimed as Rs 1,01,40,329 by DGM as applicable. (Whether the penalty has been paid by the PP in the office of DGM? If so, date of payment proceedings, etc shall be provided here. If not provided, indicate the same also.)

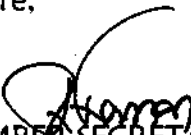
Application of CPCB Guidelines by Proponent

During the Violation Period, impacts on the Environmental Components viz. Air, Water, Land, Biological and Socio-economics Environment are assessed based on the Norms specified by the Central Pollution Control Board (CPCB) to implement "Polluter Pays" Principle and to levy Environmental Compensation for Restoration of Environmental Damages ('Report of the CPCB In-house Committee on Methodology for Assessing Environmental Compensation and Action Plan to utilize the Fund' based on the Agenda Note of 63rd Conference of Chairman and Member Secretary of PCBs/Committees held on 18.03.2019).

The Environmental Compensation shall be based on the following formula:

$$EC = PI \times N \times R \times S \times LF$$

Where,


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EC is Environmental Compensation in Rupees

PI = Pollution Index of Industrial Sector

N = Number of days of violation took place

R = A factor in Rupees for EC

S = Factor for Scale of Operation

LF = Location Factor.

With applicable values of PI-80 (Red Category Industry), N-360 days (of violation period), R-Rs.100 (based on nature of violation: Min. Rs. 100 & Max. Rs.250-), S-0.5 (cumulatively Micro/Small Scale Unit), LF-1.0 (Kunnam Population is less than one million), Environmental Compensation is computed as follows:

$$\begin{aligned} \text{Environmental Compensation} &= 80 \times 36 \times 250 \times 0.5 \times 1.0 \\ &= \text{Rs. 3,60,000/- (Maximum)} \end{aligned}$$

However, as per CPCB Guidelines, the Maximum Environmental Compensation shall be Rs. 3,60,000/.

(* No. of effective working days is 36 @ 35.41M³ per day for target production as per SOMP is ROM-10,625M³/300 days)

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	1,60,000
2	Natural Resource Augmentation Plan	1,00,000
3	Community Resource Augmentation Plan	1,00,000
Grand Total		3,60,000

About Rs.5.0 Lakhs has to be allotted as Corporate Environmental Responsibility (CER) Budget committed by the PP. As directed by the Committee, PP has identified 1 School viz. Govt. High School for developing library and sanitary facilities in the Government school in the nearest villages and tree planting in and around the Govt school and allotted Rs.5.0 Lakhs for the same. (Govt. Primary school of Kunnam Village). Incorporating the above CER, the revised Environmental Compensation is given as below:


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Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	1,60,000
2	Natural Resource Augmentation Plan	3,00,000
3	Community Resource Augmentation Plan	4,00,000
Grand Total		8,60,000

STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 8,60,000/- must be given to TNPCB for successful implementation of the Schemes in 1 year period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. Credible Action under Section 19 of the E (P) Act shall also be complied for awarding the EC.

The above Sub-committee report was placed in this 414th Meeting of SEAC held on 06.10.2023. After detailed deliberation, SEAC carefully examined the proposal and the remarks and the recommendations made by the Sub-Committee. The SEAC Sub-Committee observed that the Mining of Black Granite (Dolerite) in an extent of 1.12.0 Ha with S.F No of 6/5, 7/2A, 7/4, 7/5 & 7/7 for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms pertaining to the Granite deposits. Based on the observations made by the Sub-Committee, the SEAC decided to recommend for the grant of Environmental Clearance for Mining of Existing Black Granite (Dolerite) quarry lease over an extent of 1.12.0Ha at SF.No. 6/5, 7/2A, 7/4, 7/5 & 7/7 of Kunnam Village, Vanur Taluk, Villupuram District for annual peak production capacity of RoM of 2496 cbm of Black Granite (Dolerite) by maintaining an ultimate depth of 46 m, subject to the following conditions in addition to the normal conditions:

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


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2. The amount prescribed for Ecological remediation (Rs. 1,60,000), natural resource augmentation (Rs.3,00,000) & community resource augmentation (Rs. 4,00,000), totaling Rs. 8,60,000. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 8,60,000 in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated below:

Sl. No.	Activity Proposed	In Rs. (To be completed within one year from issue of EC.)
1	Cost of Ecological Damage Remediation Plan	1,60,000
2	Natural Resource Augmentation Plan	3,00,000
3	Community Resource Augmentation Plan	4,00,000
Grand Total		8,60,000


2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
3. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
5. The PP shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining before grant of EC, if not produced earlier.
6. The proposed action plan for green belt development shall be maintained in 33 % of the overall project area and accordingly the plantation shall be carried out in 1.00 Ha in a phase manner as a part of mine closure activities.


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7. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
8. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
9. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development. etc. The drains should be regularly de-silted and maintained properly.
10. 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.
11. The proponent shall annually obtain a 'Star Rating' system awarded by Anna University, Chennai to the mining lease being operated for their efforts and initiatives taken for successful implementation of the Sustainable Development Framework (SDF).
12. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.


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Agenda No: 414-TA-02

(File No: 9968/2023)

Proposed Earth Quarry lease over an extent of 1.78.0 Ha at S.F.Nos.1960/1A & 1960/1B, in Andipatti Bit-II Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru.T.Saravanan - For Environmental Clearance (SIA/TN/MIN/422608/2023 dt: 29.03.2023)

The proposal was earlier placed in the 388th meeting of SEAC held on 30.06.2023 and the SEAC furnished its recommendation for the grant of Environmental Clearance to the project subject to inter alia the following conditions:

- The project proponent accepted to contribute Rs.9,00,000/- for Cauvery North Wildlife Sanctuary Conservation Plan in consultation with concerned District Forest Officer, before obtaining CTO from TNPCB.

Subsequently the subject was placed in the 638th meeting of Authority held on 17.07.2023 and the Authority, after detailed discussions, decided to grant Environmental Clearance for the project subject to the conditions stated therein.

Meanwhile the PP vide letter dated 25.09.2023 has requested the SEAC to permit him to contribute Rs. 1 Lakh towards EMP measures for SMTR as his project is a small Earth quarry with the capital cost of only Rs. 8.96 Lakh.

Hence the subject was taken up for discussion in this 414th meeting of SEAC held on 06.10.2023. The SEAC accepted the request of the PP to contribute Rs. 1 Lakh to SMTR as part of conservation measure in consultation with concerned District Forest Officer. All the other conditions pertaining to this subject imposed in the Minutes of 388th meeting held on 30.06.2023 remain unaltered.


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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.


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


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GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

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


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

14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
17. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
18. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
19. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
20. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the 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.

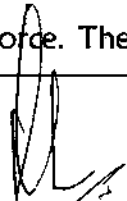
35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCCB) and the Director of Mines Safety (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


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

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

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


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


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

Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
1.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.
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


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

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.


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ANNEXURE III

Standard Terms of Reference (ToR) for EIA/EMP report for projects/activities requiring environment clearance 3(a): Standard Terms of Reference for conducting Environment Impact Assessment study for Metallurgical Industries (ferrous & non-ferrous) projects and information to be included in EIA/EMP report

A. STANDARD TERMS OF REFERENCE (TOR)

- 1) Executive Summary
- 2) Introduction
 - i. Details of the EIA Consultant including NABET accreditation
 - ii. Information about the project proponent
 - iii. Importance and benefits of the project
- 3) Project Description
 - i. Cost of project and time of completion.
 - ii. Products with capacities for the proposed project.
 - iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
 - iv. List of raw materials required and their source along with mode of transportation.
 - v. Other chemicals and materials required with quantities and storage capacities
 - vi. Details of Emission, effluents, hazardous waste generation and their management.
 - vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
 - viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
 - ix. Hazard identification and details of proposed safety systems.

- x. Expansion/modernization proposals:
- a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing existing operation of the project from SPCB shall be attached with the EIA-EMP report.
 - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4) Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State. Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)
- iii. Details with respect to option analysis for selection of site
- iv. GPS Co-ordinates of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating

storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Land use break-up of total land of the project site (identified and acquired), government/ private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy

5) Forest and wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
- ii. Land use map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project

- proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
 - vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife

6) Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micrometeorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.

- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

7) Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyorcum- rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to

- meet standards.
- vi. Measures for fugitive emission control
 - vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
 - viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
 - ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
 - x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
 - xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
 - xii. Action plan for post-project environmental monitoring shall be submitted.
 - xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8) Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the

workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre-placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above-mentioned parameters as per age, sex, duration of exposure and department wise.

- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9) Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process/ procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms /conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- iv. Does the company have system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to

be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

13. A tabular chart with index for points wise compliance of above TOR.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON-FERROUS)

1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
3. Details on installation/activation of opacity meters with recording with proper calibration system
4. Details on toxic metals including mercury, arsenic and fluoride emissions
5. Details on stack height requirement for integrated steel
6. Details on ash disposal and management -Non-ferrous metal
7. Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc.
8. Raw materials substitution or elimination
9. Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation
10. Details on Holding and de-gassing of molten metal from primary and

secondary aluminium, materials pre-treatment, and from melting and smelting of secondary aluminium

11. Details on solvent recycling
12. Details on precious metals recovery
13. Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization.
14. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
15. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
16. Trace metals in waste material especially slag.
17. Plan for trace metal recovery
18. Trace metals in water

C. ADDITIONAL TOR FOR INTEGRATED STEEL PLANT

1. Iron ore/coal linkage documents along with the status of environmental clearance of iron ore and coal mines
2. Quantum of production of coal and iron ore from coal & iron ore mines and the projects they cater to. Mode of transportation to the plant and its impact
3. For Large ISPs, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
4. Recent land-use map based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quick bird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
5. Respirable Suspended particulate matter (RSPM) present in the ambient air must be analysed for source analysis - natural dust/RSPM generated from plant operations (trace elements). The RSPM shall also be analysed for presence of poly-aromatic hydrocarbons (PAH), i.e. Benzene soluble fraction, where applicable. Chemical characterization of RSPM and incorporating of RSPM data.
6. All stock piles will have to be on top of a stable liner to avoid leaching of materials to ground water.
7. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
8. Plan for slag utilization
9. Plan for utilization of energy in off gases (coke oven, blast furnace)
10. System of coke quenching adopted with justification.

Appendix - I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சளடி, ஆனைக்குன்றிமணி
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>	Aathi	ஆத்தி
7	<i>Bauhinia tomentos</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuna	காட்டுமர
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சர்க்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நடுவளி
18	<i>Creteva adarsoni</i>	Mavalingum	மாவிலங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro ebenum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில 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	பின்பட்டை, பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பரலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழமரம்
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	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumunnai	நடு முள்ளை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூஞ்சை
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேளாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Putterlickia roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புக்கள் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தளம் கேட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேள் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Pirvarasu	பூஞ்சை
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuh	கொடுக்காப்பழி


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Appendix –III

Display Board

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

கரங்கம்

கரங்கங்களில் சுவாமி செயல்பாடுகளுக்கான கற்றுத்தழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/____, தேதி____பி.பி.____, கற்றுத்தழல் அனுமதி _____ தேதி வரைய செல்லத்தக்கதாக உள்ளது.

பகலம் பகுதி வளர்ச்சி செயல்பாடுகளை அங்கீகரிக்க திட்டம்	சுவாமியின் எல்லைகளைக் கற்றி வேலி அமைக்க வேண்டும்
நடப்பட்டுள்ள பராமழிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை:	அங்கீகரிக்கப்படாத ஆழம் தளமாட்டத்திலிருந்து மீட்டிட்டு மிகாமல் இருக்க வேண்டும் காற்றில் மரம் ஏற்படாதவாறு அங்கம் பாரிசைகளை வெற்றிகரமாக வேண்டும். வாகனங்கள் செல்லும் பாதையில் மரம் ஏற்படாத அளவிற்கு தண்ணீரை முறைப்பாக தண்ணீர் வழிகளின் மூலமாக அளவளவிப்பது தெரிவிக்க வேண்டும். இடைக்கால அமைப்பை தர சி மாசுபாட்டையும் குறைப்பதற்காக சுவாமியின் எல்லைகளை கற்றி அடர்த்தியான பகலம் பகுதியை ஏற்படுத்த வேண்டும்.
அங்கத்தில் வெடி வைக்கும்பொழுது நிலத்திற்குள் ஏற்படாதவாறும் மற்றும் அதன் பக்கத்திலும் பாதுகாப்பு நடவடிக்கைகளை உள்விடப்பட்டு செயல்படுத்தப்பட வேண்டும்.	
அங்கத்தில் இருந்து ஏற்படும் இடைக்கால அளவு 85 செ.மீ.யில் (85) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.	
அங்கம் சட்ட விதிகள் மீறும் கீழ் அங்கத்தில் உள்ள பாரிசைகளுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கைத்தாழ்வுகள் கட்டுப்பாடு வசதிகளை செய்ய தர வேண்டும்.	
கிராமம் அல்லது பஞ்சாயத்து வாரியக வாகனங்கள் செல்லும் சாலைகளை தெரிந்து தங்கு பராமழிக்க வேண்டும்.	
அங்கப்பாரிசைகளை அடர்த்தி உள்ள விவசாய பாரிசை மற்றும் தீர்த்தினைகள் பாதிக்கப்படக் கூடாது.	
தீர்த்தினைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் திட்டத்தின் தீர்த்தினை தெரிந்து அங்கீகரிக்க வேண்டும்.	
அங்கத்திலிருந்து கவிம பொருட்களை எடுத்துச் செல்லும் கிராம மக்களுக்கு எந்தத் சிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் கற்றுத்தழல் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும்.	
அங்கப்பாரிசை முடிக்கப்பட்டபின் அங்கம் மூடல் திட்டத்தில் உள்ளவாறு அங்கத்தினை மூட வேண்டும்.	
அங்கம் நடவடிக்கைகளை முடித்தபின்னர் அங்கம் பகுதி மற்றும் அங்கம் நடவடிக்கைகளை இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்ய தரவரங்கம் விவங்குகள் ஆய்விவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகலம் பகுதியை உருவாக்க வேண்டும்.	
முழுமையான நிபந்தனைகளை அறிவு பாரிசை (http://parish.nic.in) என்பது இணையதளத்தைப் பார்வையிடவும் மேலும் எந்தவித கற்றுத்தழல் சார்ந்த புகாரைக் குறிப்பிடும் உள்ள கற்றுத்தழல் மற்றும் வள அமைச்சகத்தின் ஒருங்கிணைந்த வட்டார அலுவலகம்: 044 – 2822325 (அல்லது) ஒயர்லாஸ் மரம் கட்டுப்பாடு வாரியத்தின் மாவட்ட கற்றுத்தழல் பொறியாளர் அலுவலகம்	


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