

STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of 356th meeting of the State Expert Appraisal Committee (SEAC) held on 16.02.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No. 356-01

(File No. 9035/2022)

Proposed Gravel quarry over an extent of 3.28.0 Ha in S.F.Nos. 222/4, 222/6, 225/1, 226/1, 226/2, 227/4 & 227/5 of Vellaiyampatti Village, Salem Taluk, Salem District, Tamil Nadu by Thiru. M. Bharanidharan – For Environmental Clearance. (SIA/TN/MIN/257858/2022 dated: 22.02.2022)

The proposal was placed in this 356th Meeting of SEAC held on 17.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru M. Bharanidharan has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 3.28.0 Ha in S.F.Nos. 222/4, 222/6, 225/1, 226/1, 226/2, 227/4 & 227/5 of Vellaiyampatti Village, Salem Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	M. Bharanidharan, S/o. Moharajan, Poyyapatti Harur Taluk, Dharmapuri District – 636 906.
2	Type of quarrying (Savudu/ Rough Stone/Sand/Granite)	Gravel Quarry
3	S.F No. Of the quarry site with area break-up	222/4, 222/6, 225/1, 226/1, 226/2, 227/4 & 227/5
4	Village in which situated	Vellaiyampatti
5	Taluk in which situated	Salem
6	District in which situated	Salem
7	Extent of quarry (in ha.)	3.28.0 ha

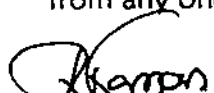

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8	Latitude & Longitude of all corners of the quarry site	11°42'50.43"N to 11°42'58.11"N 78°17'15.57"E to 78°17'25.12"E
9	Topo Sheet No.	58-1/06
10	Type of mining	Opencast Method of Shallow Mining
11	Period of quarrying proposed	3 years
12	Production (Quantity in m ³)	45,788m ³ of Gravel
13	Depth of mining	2m Below from Elevated Portion
14	Depth of water table	10m – 6m below Ground level
15	Man Power requirement per day:	8 Nos
16	Water requirement:	2.0 KLD
	1. Drinking & domestic purposes	0.4 KLD
	2. Dust suppression	1.0 KLD
	3. Green Belt	0.6 KLD
17	Power requirement	7630 litres of HSD for the entire project life
18	Precise area communication approved by the Assistant Director, Dept. of G&M with date	Rc.No.818/2020/Mines/A Dated: 01.12.2020.
19	Mining Plan approved by the Assistant Geologist/ Assistant Director (i/c), Dept. of Geology and Mining with date	Rc.No.818/2020/Mines-A/, Dated: 20.01.2021.
20	500m cluster letter issued by the Assistant Geologist/ Assistant Director (i/c) of Dept. of Geology and Mining with date	Rc.No.818/2020/Mines-A, Dated: 21/01/2021.
21	VAO certificate regarding habitations in 300m radius	Letter dated: 29.11.2021.
22	Project Cost (excluding EMP)	Rs.29,13,000/-
23	EMP cost	Capital Cost: Rs.19,00,385/- Recurring Cost: Rs.6,24,710/-

4. Earlier, the proposal was placed in 281st SEAC meeting held on 03.06.2022. The proposal was deferred in the meeting for obtaining a soil analysis report indicating the composition/component of the minerals proposed to be quarried from any one of the test laboratories as specified in the minutes.


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5. The project proponent has submitted a soil test report obtained from Department of Technical Education, Govt. College of Engineering, Salem vide letter no.C-1645/GCE/SLM/Civil/Soil Lab/2022 dated:23.11.2022. According to the test report, the soil is classified as **GP- Poorly Graded Gravel**.
6. Deputy Director, Dept. of Geology and Mining, Salem District vide Rc.No.818/2020/Mines-A/ dated.11.11.2022 informed that

".....the applied area/proposed quarry site does not lie to any river, canals, streams etc., and also not comes under any notified/declared protected zones."

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 ultimate depth of mining upto 2m Below from Elevated Portion and the quantity of 45,788m³ of Gravel subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. 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.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
5. 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


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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.

6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. **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.
12. 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, if any 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.

13. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
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 take all possible precautions for the protection of environment and control of pollution while carrying out the mining.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise


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

22.The Project Proponent shall adhere to the provision of the Mines Act, 1952. Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.

23.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.

24.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.

25.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.

26.As accepted by the Project proponent the CER cost is Rs. **2 lakhs** and the amount shall be spent for the Panchayat Union Middle school in Velliyampatti Village, Salem District for the following activities as committed, before obtaining CTO from TNPCB.

Agenda No. 356 - 02

(File No. 9062/2022)

Proposed Rough stone quarry over an extent of 1.20.0 Ha in S.F.No. 208 (Part 3) of Paravakkal Village, Peranampattu Taluk, Vellore District, Tamil Nadu by Thiru D. Baskaran for Environmental Clearance (SIA/TN/MIN/259887/2022 dated 06.03.2022)

The proposal was placed for appraisal in this 356th Meeting of SEAC held on 17.02.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru D. Baskaran has applied for Environmental Clearance for the proposed Rough stone quarry over an extent of 1.20.0 Ha in S.F.No. 208 (Part 3) of Paravakkal Village, Peranampattu Taluk, Vellore


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2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006. It is Government Poramboke land.
3. As per mining plan, the lease period is 5 years. The mining plan is for 5 years & production should not exceed 1,41,910cu.m. of Rough Stone. The annual peak production 31360 cu.m. of Rough Stone (1st year). The maximum depth of mining would be 50 metres above ground level.
4. Earlier the proposal was placed in 282nd SEAC meeting held on 04.06.2022. Based on the presentation & documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance.
5. Subsequently, the proposal was placed in 527th Authority meeting held on 01.07.2022. The authority after detailed discussion decided to call for the following details from the project proponent.
 - I) Dense vegetation was noted within & around the proposed mining area, hence project proponent shall carryout detailed biodiversity study through competent authority such as Botanical Survey of India etc.
 - II) Does this form significant part of water catchment area, will this proposed project activity affect nearby agriculture & wells. Accordingly, the proponent shall conduct study on impact of proposed mining activity on the nearby agriculture & wells within 1 km radius.
6. Subsequently, based on the reply furnished by the PP through letter dated 18.08.2022, the proposal was again placed in the 557th Authority. After detailed deliberations, authority noted that
 1. The reply regarding the queries raised shall be examined and appraised again in the committee.
 2. As per the draft Notification S.O. 2077(E) of MoEF&CC dated: 04.05.2022, notifies the extent and boundaries of Eco – Sensitive Zone of Koundinya Wildlife Sanctuary in Andhra Pradesh. The Eco-Sensitive Zone is limited to Andhra Pradesh and is not trans versing to Tamil Nadu but the draft states that


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“The Koundinya Wildlife Sanctuary is very unique and is an important corridor for the elephants and lies on their migratory route from Tamil Nadu and Karnataka States up to Seshachalam Hills of Andhra Pradesh and lies to the southernmost part of Andhra Pradesh State flanked by Tamil Nadu & Karnataka States, with 203 species of plants including trees, shrubs & herbs, 25 species of mammals, 103 species of birds, 18 species of amphibians, 18 species of reptiles and more than 396 species of invertebrates.”

The proposed site is situated amidst various Reserve Forests and the extension of Koundinya Wildlife Sanctuary's Reserve Forest is in the state of Tamil Nadu. Further, the proposed site may hinder the Elephant's movement, if the site is situated near the Elephant's Corridor.

Hence, the proponent may be requested to obtain the details regarding the Elephant corridor surrounding the proposed mine lease area from the competent Authority.

Also, the proponent has not submitted the DFO letter stating the reserve forest located within the 10Km radius. Hence, the proponent is requested to submit letter obtained from DFO regarding the RF located within 10km Radius from the proposed site.

Further, the proponent shall consider looking for alternate site since the proposed site is situated amidst various Reserve Forest namely Pallalkulam Extension RF at 1.17km, Pallalkulam RF at 1.6km etc., and very important corridor for the Elephants on their migratory route from Tamil Nadu and Karnataka States.

In the view of the above, the authority decided to refer back the proposal to SEAC to examine with the above-mentioned points since the proposed area falls within the sensitive zone of Elephant corridor and furnish the remarks to SEIAA.

7. Subsequently, the proposal was placed in 328th SEAC meeting held on 11.11.2022. Based on the presentation made by the PP, SEAC noted that the PP submitted that he needed further time to furnish clarifications to the queries raised by SEIAA

in the 557th Authority meeting. Hence, upon the receipt of above details, SEAC will take up the proposal for further appraisal.

The salient features of the project proposal are as follows:

Sl. No	Details of the Proposal	Date Furnished
1	Name of the Owner/Firm	: Thiru. D. Baskaran S/O.Duaraismy Residing at No.145 Kidangu Ramapuram Village, Pogalur Post, Peranampattu Vellore District-635813.
2	Type of quarrying	: Rough Stone
3	S.F No. Of the quarry site	: 208(Part-3)
4	Village in which situated	: Paravakkal
5	Taluk in which situated	: Pernampattu
6	District in which situated	: Vellore
7	Extent of quarry (in ha.)	: 1.20.0Ha
8	Latitude & Longitude of all corners of the quarry site	: 12°54'51.91"N to 12°54'56.99"N 78°47'38.88"E to 78°47'43.92"E
9	Topo Sheet No.	: 57 - L/13
	Period of Lease	5 years
	Validity of Mining Plan	5 years
10	Type of mining	Opencast Semi-Mechanized Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m ³)	: 1,41,910 m ³ of Rough Stone
13	Depth of quarrying	: 50m Above ground level
	Ultimate depth of the pit	50 m agl
14	Depth of water table	: 55m to 58m
15	Man Power requirement per day:	21 Nos.
16	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression 3. Green Belt	: 2.5 KLD 1.25 KLD 0.75 KLD 0.5 KLD
17	Power requirement	TNEB


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18	Precise area communication approved by the, District Collector, with date	: Na.Ka.No.355/2019 (Kanimam), dated: 26.11.2019
19	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.355/2019(Mines), dated: 10.03.2020
20	Assistant Director, Department of Geology and Mining 500m cluster letter	Rc.No.355/2019(Mines), dated: 14.02.2022
21	VAO certificate regarding 300m radius cluster	Letter dt: 10.06.2020
22	Project Cost (excluding EMP cost)	: Rs. 58.90 Lakh
23	EMP cost	: Capital Cost - Rs.15.70 Lakhs Recurring Cost – Rs.14.51 Lakhs
24	CER cost	Rs. 7 Lakhs

The proposal is now placed in the 356th SEAC meeting held on 17.02.2023. The committee carefully examined the points raised by SEIAA and the replies given by the PP is as follows

Points	Remarks	Response
1a	Dense vegetation was noted within & around the proposed mining area, hence project proponent shall carryout detailed biodiversity study through competent authority such as Botanical Survey of India etc.	<p>Lease Area:</p> <ul style="list-style-type: none"> Lease area is an sloping terrain ranging from 390m RL to 440m RL sloping towards south west dominated with rocky patches with intermittent thorny shrubs, herbs & grasses typical to hilly terrain comprising predominantly Prosopis juliflora, Lantana camara, Acacia nilotica, Cassia auriculata, Acacia leucophloea. These species dries down quickly and the entire area becomes dry in summer. There are no rare, endangered, threatened (RET) species in the lease area and the lease area is not rich in bio diversity. Due to less species diversity in lease area and tree species are common in the periphery of the lease area, no impact on the species diversity is envisaged. Proponent has himself developed a good farm land with mango and Eucalyptus trees in his land on the south side of the lease area.


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		<ul style="list-style-type: none"> • Besides, proponent has already committed to carryout additional 600nos of plantation in his own land near the lease area for which additional CER commitment of Rs 2.0 lakhs is already made. • The details vegetation in the area and Biodiversity study report are submitted to SEIAA. <p>Project Impact Zone:</p> <ul style="list-style-type: none"> • The biodiversity study of the project impact zone covering an area of 1km is carried out. • The area on the northern and north eastern side of the lease area is a continuation of rocky hilly terrain with grasses, thorny shrubs and bushes only. • In the southern side of the lease area proponent is having own farm land developed with Mango, Eucalyptus trees. The other regions are also dry fallow land with seasonal ground nut cultivation. • The study area comprises of 20 species of trees followed by 8 species of shrubs, 13 species of herbs, 4 species of climber, 3 species of plantation and 3 species of grasses. • Dominated species Mangifera indica, Acacia leucophloea, Borassus flabelliformis, Eucalyptus globulus, Leucaena leucocephala, Acacia nilotica etc are recorded in the study area. • There are no rare, endangered, threatened (RET) species in the study area and the area is not rich in bio diversity. • Due to less species diversity in area which are common in the area, by adoption systematic and scientific mining adopting all the environmental protection measures like green netting around the lease area, wet drilling, dust sprinkling on transport road, plantation in and around the lease area, provision of tyre washing facility, proper maintenance of mineral transport roads, avoiding over loading of trucks/tippers, adopting controlled blasting, no impact on the existing vegetation is envisaged.
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<p>1b</p>	<p>Does this from significant part of water catchment are, will this proposed project activity affect near by agriculture & wells. Accordingly, the proponent shall conduct study on impact of proposed mining activity on the nearby agriculture & Wells within 1 km radius.</p>	<ul style="list-style-type: none"> ➤ The area applied for mining lease is a rocky hilly terrain sloping towards south west with RL ranging from 390m RL to 440m RL. ➤ There are no streams or nalls nearby the lease area. Rock formation in the study area is composed of Peninular gneissic complex-II , lithologically Hornblende Biotite Gneiss type and geomorphologically the lease area also falls under dissected hills and valleys. ➤ The area is poorly vegetated due to un favourable topographic, soil condition. During advent of monsoon the area looks green with some thorny bushes, grasses intermittent with shrubs. However, during summer the area becomes dry and free from any vegetation and only rocky exposure is observed. As such no agriculture activities are observed in the vicinity. ➤ As already clearly brought out in the biodiversity study submitted separately, the area is poorly vegetated due to un favourable topographic, soil condition. During advent of monsoon the area looks green with some thorny bushes, grasses intermittent with shrubs. However, during summer the area becomes dry and free from any vegetation and only rocky exposure is observed. As such no agriculture activities are observed in the vicinity. ➤ Study was carried out at 10 locations (7 wells & 3 Bore wells) reveal that in general the area is rocky undulating terrain with poor water availability. In the study area, the shallow aquifer is developed through dug wells and deeper aquifer through tube wells. The groundwater has revealed that potential fractures are encountered at deeper levels. The water in the wells are available mainly after post monsoon and it reduces during summer. Bore wells are as deep as 600 ft also and it reflects that the yield is only better at deeper water levels. ➤ Mining area is in an elevated terrain and mining above GL only will be carried out as such, there will not be any intersection of ground water table or effect on ground water regime.
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		<ul style="list-style-type: none"> ➤ By proper management of water catchment during rainy season, effective surface runoff management like collection of direct rain fall in the mine floor sump. Mine sump of size 42.5mx32.5mx1.7m, using of mine sump water for dust suppression etc or discharge of the same to settling pond for downstream users. ➤ Besides, Rainwater from the mine periphery will be collected through peripheral garland drain - 150m x 1m x 0.6m proposed. Garland drain will be connected to a settling pond of 2.0M X 2.0M X 1.0M size and 4.0m³ capacity. Supernatant clear water from settling pond will be let out to downstream users. ➤ By effective implementation of above said measures it will be ensured the rainwater falling in the lease area is properly drained to the downstream users without causing any impact on the surface water regime also.
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2a	<p>As per the draft Notification S.O. 2077(E) of MoEF&CC dated: 04.05.2022, notifies the extent and boundaries of Eco Sensitive Zone of Koundinya Wildlife Sanctuary in Andhra Pradesh. The Eco-Sensitive Zone is limited to Andhra Pradesh and is not transversing to Tamil Nadu but the draft states that "The Koundinya Wildlife Sanctuary is very unique and is an important corridor for the elephants and lies on their migratory route from Tamil Nadu and Karnataka States up to Seshachalam Hills of Andhra Pradesh and lies to the southernmost part of Andhra Pradesh State flanked by Tamil Nadu & Karnataka States, with 203 species</p>	<ul style="list-style-type: none"> ➤ Obtained letter from office of the District Forest Officer, Vellore division, vide letter C.no 1749/2022/D2 dated 11.11.2022 and the copy of the same is given vide Enclosure – 1. ➤ From the DFO letter it is clear that Koundinya wild life sanctuary is located 16.20 km away from the lease area and the lease area or nearby does not have any elephant corridor or elephant migration route. ➤ Map showing the features within 15km radius from the lease area is given as Figure No. 1. ➤ From the Figure it could be seen that the sanctuary is located further north, NW of Gundalapalli RF which is more than 4.2 km from the lease area. Besides, there is an intervening NH – 234 connecting Gudiyattam – Pernampattu and these 2 towns are thickly populated /habituated. ➤ The figure also reveals that these forest are discontinuous with lot of plain vacant , highly rugged undulating rocky terrain inbetween with human habitation and road traffic etc., ➤ As mentioned in the DFO letter and from the discussion with the locals it is observed that so far no movement of elephant is noticed anywhere near the lease area or its surrounding and also the chances for the same appears to be remote and not favorable for its occurrence due to rugged terrain. ➤ The RF are of rocky type with thorny bushes and shrubs and no major vegetation is observed. ➤ Mining in this area is in vogue for more than 3 decades. There are few working quarries in the region further N, NW , E side of this lease. (Refer Figure No. 1.) . Systematic mining in these leases which are further closer to the sanctuary when compared to the present proposal deciphers that there are no impact on the far away sanctuary. Details of these working quarries are given in table 1.
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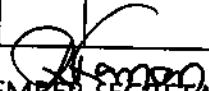
	<p>of plants including trees, shrubs & herbs, 25 species of mammals, 103 species of birds, 18 species of amphibians, 18 species of reptiles and more than 396 species of invertebrates".</p> <p>The proposed site is situated amidst various Reserve Forests and the extension of Koundinya Wildlife Sanctuary's Reserve Forest is in the state of Tamil Nadu. Further, the proposed site may hinder the Elephant's movement, if the site is situated near the Elephant's Corridor. Hence, the proponent may be requested to obtain the details regarding the Elephant corridor surrounding the proposed mine lease area from the competent Authority.</p>	
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2b	<p>The proponent has not submitted the DFO letter stating the reserve forest located within the 10Km radius. Hence, the proponent is requested to submit letter obtained from DFO regarding the RF located within 10km Radius from the proposed site.</p>	
2c	<p>Further, the proponent shall consider looking for alternate site since the proposed site is situated amidst various Reserve Forest namely Pallalkulam Extension RF at 1.17km, Pallalkulam RF at 1.6km etc., and very important corridor for the Elephants on their migratory route from Tamil Nadu and Karnataka States.</p>	<ul style="list-style-type: none"> ➤ As mentioned above the lease area or its surrounding area is not at all the elephant corridor or elephant migration route. ➤ The existing working quarries in the area also confirms no impact on these far away sanctuary. ➤ From the study, it is observed that the area is a dry rocky terrain . There are no rare, endangered, threatened (RET) species in the study area and the area is not rich in bio diversity. ➤ During advent of monsoon the area looks green with some thorny bushes, grasses intermittent with shrubs. However, during summer the area becomes dry and free from any vegetation and only rocky exposure is observed . ➤ Proponent has him self developed a good farm land with mango and Euacalyptus trees in his land on the south side of the lease area. ➤ Besides, proponent has already committed to carryout additional 600nos of plantation in his own land near the lease area for which additional CER commitment of Rs 2.0 lakhs is already made. ➤ This is a Government tender project and the State Government issued GO no 17 dated 25.09.2019 after following all the pre requisites. ➤ Lease area of 1.20.0 Ha. is Leased through

		<p>auction route by the State Government.</p> <ul style="list-style-type: none"> ➤ Lease area is an hilly terrain and working will be above general ground level only. Peak yearly production envisaged from this lease is very less and is 31360m³ only. ➤ Revised CER commitment given by the PP is Rs 7.0 lakhs.
2c	2C Continued	<ul style="list-style-type: none"> ➤ By adoption systematic and scientific mining adopting all the environmental protection measures no impact on the surrounding environment is envisaged. Since the sanctuary is located far away and also no adverse impact on the surrounding environment is envisaged from this B2 category project since the number of equipment's to be used to achieve this production is very less and the magnitude of operation is of small level. ➤ The environmental quality of the area will be maintained well within the prescribed standards by effective implementation of various mitigative measures during mining operations like wet drilling, Well-designed blasting parameter, effective stemming to achieve optimum breakage occurs without generating fines, Use of controlled blasting techniques with Nonel to keep the dust generation, noise as well as vibration level within limits, Proper maintenance of HEMM like shovel, tippers, etc, Regular wetting of transport road using mobile water tanker, Setting up of tyre wash facility in the transport road, Proper maintenance of haul road and other roads, Covering of loaded tippers with tarpaulins during transportation, Development of greenbelt / barriers around mine in the safety zone & other nearby areas, provision of effective surface runoff management like garland drain around the quarry which will be connected to a settling pond with silt traps & supernatant clear water from the settling pond will be flow to the downstream users, rain water harvesting and its utilization to meet the project water requirements, Providing in-built mechanism in the equipment's for reducing sound emissions, Providing earplugs to workers


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		<p>exposed to higher noise levels, . formulating drilling and charging pattern with less explosive charge, initiating sequence and using NONEL, carrying out blasting with minimum charge per delay, avoiding blasting during strong winds etc.</p> <ul style="list-style-type: none"> ➤ Besides, Certified vehicles with low carbon emissions will only be used. These equipment's will be properly and regularly maintained. Besides, regular vehicular emission tests will be done for the transport vehicles to ensure minimal impact due to carbon emissions. To further mediate the carbon emissions, a good greenbelt and plantation plan has been planned wherein plants will be planted in and around the lease area. It will be ensured that mining will be carried out adhering to all the statutory rules and regulations, appointing statutory personnel's like qualified mines manager, blaster, informing DGMS before commencement of mining operations. Due to aforesaid reasons no appreciable impact on the sanctuary located more than 10km or in the nearby area from the lease area is expected. ➤ The revised EMP budget is given vide Enclosure No. - 2.
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and decided to reiterate its recommendation already made previously. All other conditions stipulated in the earlier minutes will remain unaltered.

Hence, the SEAC decided to recommend the proposal for the grant of Environmental Clearance for the ultimate depth of mining up to 50m AGL and the production of 1,41,910 m³ of Rough stone. The annual peak production shall not exceed 31,360 m³ of Rough stone 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


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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 mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region before obtaining the CTO and get the necessary statutory permission under the MMR 1961 pertaining to the quarry working operations.
4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial' / 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Salem.
5. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
6. The proponent shall maintain 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.
7. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
8. **The PP shall ensure that the following provisions are provided due to the existence of Reserved Forests:**
 - i. Since the R.F is located close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two rows) along the


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

- ii. The proponent shall construct and maintain a strong highwall fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forests before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
- iii. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned outside the boundary of the proposed quarry without endangering the path leading towards the existence of the reserved forest.
- iv. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
- v. The PP shall 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.
- vi. 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.
- vii. The PP shall carry out the regular monitoring in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.
- viii. 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.

- ix. 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.
 - x. 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.
 - xi. 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 without the prior permission of the Competent Authority in case of reserve forest land as per the procedures laid down by the State Government.
 - xii. 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.
 - xiii. The PP shall carry out the required mitigation measures as pointed out by the concerned DFO for the conservation of Elephant Corridors existing nearer to the quarry site.
9. 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.
10. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient under the provisions of MMR


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1961 as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.

11. The PP shall carry out the quarrying operations from the top to downwards in the hillock by maintaining proper benches with adequate width & height and proper haul road possessing the gradient as permitted by the Director of Mines Safety, Chennai Region.
12. However, 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 working touches 30 m (or) more above ground level within the commencement of two years of quarrying 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/Bangalore, 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.
13. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
14. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University - CEG

Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

15. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
16. 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.
17. 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.
18. 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.
19. Within one year from the commencement of quarrying operations, the PP shall carry out a **hydrogeological study** considering the influence of the quarrying on the neighbouring agricultural activities in the area to evaluate the impact of quarrying operations over the surrounding water bodies by involving any of these reputed Research and Academic institutions - Central Institute of Mining and Fuel Research (CIMFR) – Dhanbad / Nagpur, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, NIT Trichy, University of Madras-Dept of Geology, Anna University – Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the AD (Geology & Mines), the concerned DEE/TNPCB, IRO/MoEF, Chennai and the SEIAA-TN, Chennai.
20. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
21. 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


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MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

22.The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.

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.

24.As accepted by the Project proponent the CER cost is Rs. 7 Lakhs and the amount shall be spent for the Government – Panchayat Union Primary School, Kidangurampuram Village as committed, before obtaining CTO from TNPCB.

Agenda No. 356 - 03

(FileNo.9083/2022)


Proposed Rough Stone and Gravel quarry over an extent of 0.98.0 Ha in S.F.No.219 (Part) of Thalakkurai Village, Pollachi Taluk, Coimbatore District, Tamil Nadu by Thiru. P. Sivasubramanian for Environmental Clearance (SIA/TN/MIN/261166/2022, dated: 11.03.2022)

The proposal was placed for appraisal in this 356th Meeting of SEAC held on 17.02.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent Thiru P. Sivasubramanian has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry over an extent of 0.98.0 Ha in S.F.No. 219 (Part) of Thalakkurai Village, Pollachi Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 46,670 cu.m of Rough Stone. The annual peak production 11,405Cu.m (1st year). The ultimate depth-40 metres below ground level.
4. Earlier this proposal was placed in 282nd SEAC meeting held on 04.06.2022.

Based on the presentation and documents furnished by the project proponent,


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SEAC decided to get the following details from the PP. The PP shall furnish certified compliance report from MoEF &CC / TNPCB on the existing EC issued.

- The PP shall furnish slope stability action plan for the planned working benches and also for the realignment of benches in the existing quarry.
- The PP shall submit an Action Plan to merge the existing quarry with the proposed quarry to be furnished.
- Details of Odai viz nature of Odai, origin, category etc.,
- The PP shall furnish the revised mining plan after leaving necessary safety distance for the Odai & same shall be approved by competent authority.

5. Subsequently, based on the reply furnished by the PP, the proposal was again placed in the 318th SEAC minutes held on 07.10.2022. Based on the presentation made and documents furnished, SEAC decided to call for additional details

1. The PP shall furnish certified compliance report on the previous EC obtained vide Lr. No. SEIAA-TN/F. No3959/1(a)E.C. No:3098/2016, dated: 02.03.2016, from the IRO Chennai, MoEF&CC (or) TNPCB.
2. The PP shall furnish slope stability action plan approved by the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30m.
3. The proponent shall submit the flood mitigation measures for the Odai situated at a distance of 60m South West side of the proposed quarry.

6. Subsequently, the proposal was placed in the 563rd SEIAA meeting held on 27.10.2022, and the Authority decided to call for the following details in addition to the details required by SEAC.

1. From the KML file uploaded by the proponent through online in Parivesh Portal, it is ascertained that

(i) TANGEDCO – Talakkarai (Muthur) Substation is located at a distance of 240m from the proposed mine lease area.

Since, the proposed activity involves blasting, the proponent is requested to obtain **NOC from the respective TANGEDCO office.**


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(ii) Further, there is a permanent structure located at a distance of 270m from the proposed mine lease area in the SW direction.

(iii) As per Tamil Nadu Minor Mineral Concession Rules, 1959 under section V – Miscellaneous in para 36. General restrictions in respect of quarrying operations; (c)

“No new layout, building plans falling within 300 metres from any quarry should be given approval by any agency unless prior clearance of the Director of Geology and Mining is obtained. On receipt of proposals for according clearance, the Director of Geology and Mining shall decide upon the continuance or closure, as the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such “clearance”.”

Hence, the proponent is requested to obtain clearance from **Director of Geology and Mining** with respect to the TANGEDCO substation and permanent structure located within 300m from the proposed mine lease area.

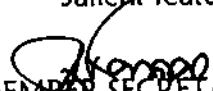
(iv) Further, a school is located at a distance of 500m approximately from the proposed mine lease area.

Hence, the proponent is requested to conduct a detailed study regarding the impacts of mining on the school which must include

- a. Air pollution and its mitigation measures
- b. Noise pollution and its mitigation measures
- c. Vibration study specific to the school
- d. Traffic study and its impacts
- e. Operative hours of the quarrying proposed and its corresponding anticipated pollution load with respect to the school.

(v) Impact of mining on biodiversity, agricultural activity and horticulture within 500m radius from the proposed mine lease area and its mitigation measures.

Salient features of the proposal are as follows.


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1	Name and Address	:	P.Sivasubramanian S/o. Periyasamy Counder No. 32, Arumugam Nagar Mahalingapuram, Pollachi Taluk Coimbatore - 642 002
2	Type of quarrying	:	Rough stone and Gravel
3	S.F No. Of the quarry site	:	219 (Part)
4	Village in which situated	:	Thalakkarai
5	Taluk in which situated	:	Pollachi
6	District in which situated	:	Coimbatore
7	Extent of quarry (in ha.)	:	0.98.0 Ha
8	Period of quarrying proposed	:	5 years
9	Type of mining	:	Opencast Mechanized Mining Method
10	Production (Quantity in m ³)	:	46,670m ³ of Rough stone
11	Latitude & Longitude of all corners of the quarry site	:	10°40'53.72"N to 10°40'58.23"N 76°58'19.03"E to 76°58'22.94"E
12	Topo Sheet No.	:	58 B/14
13	Man Power requirement per day:		16 Employees
14	Precise area communication approved by the Assistant Director with date	:	Na.Ka.No.972/Kanimam/2021 dated: 12.01.2022
15	Mining Plan approved by the Assistant Director of Geology and Mining with date	:	Rc.No.972/Mines/2021 dt: 17.02.2022
16	Water requirement: 4. Drinking & Utilized water 5. Dust suppression 6. Green Belt	:	2.0 KLD 0.4 KLD 1.0 KLD 0.6 KLD
17	Power requirement: a. Domestic Purpose b. Industrial Purpose		TNEB 37,328 Liters of HSD
18	Ultimate Depth of quarrying	:	40m BGL
19	Depth of water table	:	56m in rainy season & 61 in summer
20	Project Cost (excluding EMP cost)	:	Rs. 25,54,000
21	EMP cost	:	Capita Cost - Rs. 10,90,000 Recurring Cost - Rs. 16,00,200
22	CER cost		Rs. 5 Lakhs

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23	AD mines 500m cluster letter approved by the Assistant Director of Geology and Mining with date	Rc.No.972/Mines/2021 dt: 17.02.2022
24	VAO certificate regarding 300m radius habitation	Letter Dated: 02.03.2022

The proposal is now placed in the 356th SEAC meeting held on 17.02.2023 and the SEAC have satisfied with the responses provided by the PP during the deliberations. Here, the EIA Co-Ordinator have made a request to the SEAC to consider the extension of the validity of EC automatically as stipulated in the Office Memorandum on 'Clarification on the amendment to EIA Notification 2006' vide MoEF & CC OM File No. 1A3-22/28/2022-1A.111 [E 1815184], dated. 13.12.2023.

The SEAC have noted the following details furnished by the PP:

1. The Project Proponent was granted for a lease to quarry rough stone for a period of 5 years over an extent of 1.13.0 Ha in S.F.No.219 (P) of Thalakkurai Village, Pollachi Taluk, Coimbatore District. The lease deed has been executed on 12.12.2016 and the lease period is valid up to 11.12.2026.
2. The PP had obtained the 'Prior Environmental Clearance' vide Lr. No. SEIAA-TN/F.No.3959/1(a)/E.C.No.3098/2015, dated. 02.03.2016 for quarrying an approved quantity of 54,515 cu.m Rough stone & 10,880 cu.m at a maximum depth of 20 m based on the Mining Plan approved by the competent authority, for an extent of 1.13.0 Ha at the Survey Number of 219 (Part) of Thalakkurai Village, Pollachi Taluk, Coimbatore District with **a validity coterminous with the mine lease period or limited to a maximum period of 5 years from the date of issue whichever is earlier.**
3. However, the validity of EC granted earlier due to expire on 01.03.2021 had been extended and **now expired on 01.03.2022** observing the MoEF & CC OM: S.O. 221(E), dated. 18.01.2021 in view of the outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, implementation of projects or activities in the field which states that

"...the Central Government, hereby makes the following further amendments in the notification of Government of India, in the erstwhile Ministry of


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Environment and Forests, number S.O. 1533 (E), dated the 14th September, 2006, published in the Gazette of India, Extraordinary, Part-II, Section 3, Sub-section (II), namely:-


*"....(ii) for paragraph 9A, the following paragraph shall be substituted namely:-
"9A. Notwithstanding anything contained in this notification, the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid.....".*

4. However, the PP have filed an application through online for obtaining EC for operating the next five years of lease for an extent of 0.98.0 Ha in the same S.F. No. 219 (P) with not exceeding the total excavation quantity and annual peak production capacity on 11.03.2022.
5. Based on the presentation and request made by the PP, the committee had observed that the PP had filed the application for grant of EC before 12.04.2022 while both validity of the prior EC granted earlier and the lease period executed are subsisting as on 12.04.2022 for the same survey number of the proposed quarry site.

The proposal was placed in this 356th meeting of SEAC held on 15.02.2023 and SEAC noted that "SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...

"The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above."

As per the above-mentioned O.M, SEAC noted that the proponent is also eligible for automatic extension. However, the PP requested to consider his proposal under extension provision.


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Accordingly, 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 ultimate depth of mining up to 40m BGL and the production of 46,670 m³ of Rough stone and however, the annual peak production shall not exceed 11,405 m³ of Rough stone subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.

7. The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
8. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
10. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
11. However, 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 a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the


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

12. 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.
13. 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.
14. 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.
15. Within one year from the commencement of quarrying operations, the PP shall carry out a **hydrogeological study** considering the influence of the quarrying on the neighbouring agricultural activities in the area to evaluate the impact of quarrying operations over the surrounding water bodies by involving any of these reputed Research and Academic institutions - Central Institute of Mining and Fuel Research (CIMFR) – Dhanbad / Nagpur, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, NIT Trichy, University of Madras-Dept of Geology, Anna University – Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the AD (Geology & Mines), the concerned DEE/TNPCB, IRO/MoEF, Chennai and the SEIAA-TN, Chennai.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. 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.

18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal..
19. 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.
- 20.As accepted by the Project proponent the CER cost is Rs. 7 Lakhs and the amount shall be spent for the Government – Panchayat Union Middle school, T. Nalligoundenpalayam, Pollachi, Coimbatore. as committed, before obtaining CTO from TNPCB.

Agenda No: 356-04

(File No: 9100/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.21.5 Ha at S.F.No. 469/1B1 of Kolathupalayam Village, Dharapuram Taluk, Tiruppur District, Tamil Nadu by Thiru. R.Palanisamy - for Environmental Clearance. (SIA/ TN/ MIN/ 260543/2022 dated 08.03.2022)

Earlier, this proposal was placed in this 283rd Meeting of SEAC held on 09.06.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. R.Palanisamy has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 1.21.5 Ha at S.F.No. 469/1B1 of Kolathupalayam Village, Dharapuram Taluk, Tiruppur 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.

Sl. No	Details of the Proposal	Date Fulfilled
1	Name of the Owner/Firm	: Thiru. R. Palanisamy, S/o. Ramasamy, No.4/1/12, Bajar Street, Selampalayam Village, Dharapuram Taluk, Tiruppur District - 638 672.


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2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone and Gravel
3	S.F No. of the quarry site with area break-up	:	469/1B1
4	Village in which situated	:	Kolathupalayam
5	Taluk in which situated	:	Dharapuram
6	District in which situated	:	Tiruppur
7	Extent of quarry (in ha.)	:	1.21.5 Ha
8	Period of quarrying proposed	:	5 Years
9	Type of mining	:	Opencast Mechanized Mining
10	Production (Quantity in m ³)	:	90,260 m ³ of Rough Stone; Annual peak production capacity of 18220 cu.m of Rough Stone (2 nd year)
11	Latitude & Longitude of all corners of the quarry site	:	10°43'42.02"N to 10°43'46.43"N 77°33'24.64"E to 77°33'28.40"E
12	Topo Sheet No.	:	58-F/10
13	Man Power requirement per day:	:	18 Nos
14	Precise area communication approved by Deputy Director, Department of Geology and Mining with date	:	Na.Ka.En.333/Kanimam/2021, dated:25.01.2022
15	Mining Plan approved by Deputy Director, Department of Geology and Mining with date	:	R.c. No. 333/2021/Mines, dated:11.02.2022
16	Water requirement: 7. Drinking water & domestic purposes (in KLD) 8. Dust Suppression (in KLD) 9. Green Belt (in KLD)	:	1.5 KLD 0.5 KLD 0.3 KLD 0.7 KLD
17	Power requirement a. Domestic Purpose b. Industrial Purpose	:	TNEB 72208 Liters of HSD
18	Ultimate Depth of quarrying	:	47m (2m Gravel + 45m Rough Stone) bgl
19	Depth of water table	:	74m-69m bgl
20	Whether any habitation within 300m distance	:	No
21	Project Cost (including EMP cost)	:	Rs. 49,81,000/-
22	EMP cost	:	Capital Cost – Rs. 28,12,584/- Recurring Cost – Rs. 13,40,556/-
23	CER cost	:	Rs. 5,00,000/-

24	Assistant Director, mines 500m cluster letter	:	R.c. No. 333/2021/Mines, dated:16.02.2022
25	VAO certificate regarding 300m radius cluster	:	Letter dated 12.02.2022

Based on the presentation and document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.

- (i) The project proponent shall furnish documentary evidence from the concerned District Forest Officer showing the distance between the nearest R.F and the proposed quarry site.
- (ii) The project proponent shall submit slope stability plan.
- (iii) The project proponent shall furnish certified compliance report obtained from the Integrated Regional Office of MoEF &CC, Chennai (or) concerned TNPCB office.

The PP vide Ir Dt. 20.10.2022 has furnished the reply is as follows

S.No	Particulars	Reply furnished by PP
I.	The project proponent shall furnish documentary evidence from the concerned District Forest Officer showing the distance between the nearest R.F and the proposed quarry site.	Letter obtained from the District Forest Officer, Udumalaipettai Division, it is informed that the exact distance between the proposed Site for Rough Stone and Gravel quarry is located in the 11.14km distance away from the Dalavaipattinarn Reserve Forest, and also mention that 46.20km distance away from the Annaimalai Tiger Reserve Forest vide Letter O.M.No. 6312/2022N, dated 21.06.2022 and copy of the is enclosed..
II.	The project proponent shall submit slope stability plan	The project proponent shall furnish the report Scientific Study on Slope Stability Analysis and Action Plan from College of Engineering, Guindy Anna University.


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		Chennai — 600 025. Proposed Rough Stone and Gravel Quarry Project over an Extent of 1.21.5ha of Patta land in S.F.No.469/1B1 of Kolathupalayam Village, Dharapuram Taluk, Tiruppur District. A copy of the Study on Slope Stability Analysis and Action Plan Report is enclosed as Annexure No. 11.
III.	The project proponent shall furnish certified compliance report obtained from the Integrated Regional Office of MoEF &CC, Chennai (or) concerned TNPCCB office.	<p>Environmental Clearance obtained from SEIAA, Tamil Nadu vide Lr. No. SEIAA-TN/IF.No.5268/EC/1(a)/3616/2016 Dated: 24.08.2016, for a period of five years. A copy of at the EC, Lease Deed is enclosed .</p> <p>Project proponent shall furnish the environmental clearance obtained for the period as said above and the copy of Certified Compliance Report This has been approved by the competent authority compliance of the conditions specified in the environmental clearance is enclosed.</p>

The proposal was placed in this 356th meeting of SEAC held on 15.02.2023 and SEAC noted that "SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...


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“The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above.”

As per the above mentioned O.M, SEAC noted that the proponent is also eligible for automatic extension.

However, based on the presentation made and the documents furnished by the Project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 90260 m³ of Rough Stone not exceeding a depth of 47m (2m Gravel + 45m Rough stone) Below Ground level for the five years with not exceeding the annual peak production capacity of 18220 cu.m of Rough Stone, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:**

1. **The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.**
2. **The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.**
3. **The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.**
4. **The proponent shall maintain 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**


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and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.

5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. **The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.**
7. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without a prior permission obtained from the Director of Mines Safety, Chennai Region.
9. Since few habitations are situated at a distance range of 500 m to 700 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.


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10. 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.
11. 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.
12. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
13. However, 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 a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
14. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
15. 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.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.


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17. 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.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. 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.
20. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the committed activities in Govt. Hr Sec School, Chinnakaamatti Village as committed, before obtaining CTO from TNPCB.

Agenda No: 356-5

(File No: 9114/2022)

Proposed Rough stone & gravel quarry lease over an extent of 1.10.0 Ha in S.F.Nos 470 (P) Panappatti Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Tmt V.Nirmaladevi - For Environmental Clearance. (SIA/TN/MIN/262550/2022 Dt. 19.03.2022)

Earlier, this proposal was placed for appraisal in this 289th meeting of SEAC held on 24.06.2022. 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 V.Nirmaladevi has applied for Environmental Clearance for the proposed Rough stone & gravel quarry lease over an extent of 1.10.0 Ha in S.F.Nos 470 (P) Panappatti Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period was initially granted for 5 years which was then extended later by the Competent authority in 2021 and hence the lease is subsisting as on date. Similarly, the mining plan is valid for the period of 5 years. The total production for 5 years not to exceed 78048 m³ Rough stone & 4676 m³ of Gravel. The annual peak production 29548 m³ Rough stone (1st


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year) & 4676 m³ of Gravel (1st year) with ultimate depth of 42m.

Sl. No	Details of the Quarry	Remarks
1	Name of the Owner/Firm	: Tmt. V. Nirmaladevi, W/o. Thiru. Vellingiri, No. 2/91, Mandrampalayam, Vadasithur Post, Coimbatore District – 641 202.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone and Gravel
3	S.F No. of the quarry site with area break-up	: 470 (P)
4	Village in which situated	: Panappatti
5	Taluk in which situated	: Kinathukadavu
6	District in which situated	: Coimbatore
7	Extent of quarry (in ha.)	: 1.10.0 Ha
8	Period of quarrying proposed	: 5 Years
9	Type of mining	: Opencast Mechanized Mining
10	Production (Quantity in m ³)	: 76,148 m ³ of Rough Stone and 4676 m ³ of Gravel; Annual peak production capacity of 29,548 cu.m of Rough Stone (1 st year).
11	Latitude & Longitude of all corners of the quarry site	: 10°51'47.77"N to 10°51'52.37"N 77°04'04.57"E to 77°04'08.03"E
12	Topo Sheet No.	: 58-F/01
13	Man Power requirement per day:	: 15 Nos
14	Precise area communication approved by Assistant Director, Department of Geology and Mining with date	: Na.Ka.En.980/Kanimam/2021, dated:25.01.2022
15	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.980/Mines/2021, dated:14.02.2022
16	Water requirement: 1. Drinking water & domestic purposes (in KLD) 2. Dust Suppression (in KLD) 3. Green Belt (in KLD)	: 2.0 KLD 0.4 KLD 1.0 KLD 0.6 KLD
17	Power requirement c. Domestic Purpose d. Industrial Purpose	: TNEB 63212 Liters of HSD


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18	Ultimate Depth of quarrying	:	37m (2m Gravel + 35m Rough Stone) bgl
19	Depth of water table	:	68m-63m bgl
20	Whether any habitation within 300m distance	:	No
21	Project Cost (including EMP cost)	:	Rs. 40,07,000/-
22	EMP cost	:	Capital Cost – Rs. 26,46,273/- Recurring Cost – Rs. 12,90,185/-
23	CER cost	:	Capital cost Rs.2646273/year Recurring cost Rs. 1290185/Year Total Rs.98,15,106/5 years
24	Assistant Director, mines 500m cluster letter	:	Rc.No.980/Mines/2021, dated:14.02.2022
25	VAO certificate regarding 300m radius cluster	:	Letter dated 16.02.2022

Based on the presentation made by the proponent, SEAC decided to obtain the following details from the PP.

1. The PP shall furnish the certified compliance report from MoEF&CC/TNPCB on the existing EC issued.
2. The PP shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site

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

The PP vide Ir Dt. 20.10.2022 has furnished the reply is as follows

Sl.No	Particulars	Remarks
I.	The PP shall furnish the certified compliance report from MoEF&CC/TNPCB on the existing EC issued.	CCR from IRO furnished.
II.	The PP shall furnish the letter received from DFO concerned stating the proximity details of	Nearest RF – Bolampatti Block -1 -14.07 Km Nort west

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	Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site	
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The proposal was placed in this 356th meeting of SEAC held on 15.02.2023 and SEAC noted that " SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...

"The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above."

As per the above mentioned O.M, SEAC noted that the proponent is also eligible for automatic extension.

However, based on the presentation made and the documents furnished by the Project proponent with consideration of the safety aspects, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 76148 m³ of Rough Stone and 4676m³ of gravel with an ultimate depth of 37m (2m Gravel + 35m Rough stone) Below Ground level for the five years and not exceeding annual peak production capacity of 29,548 cu.m of Rough Stone, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under


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the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.


3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. **The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.**
7. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without a prior permission obtained from the Director of Mines Safety, Chennai Region.
9. Since few habitations are situated at a distance range of 500 m to 700 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly

rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

10. 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.
11. 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.
12. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
13. However, 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 a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
14. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.


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15. 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.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. 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.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. 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.
20. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the committed activities in Govt. High School, Panappatti Village as committed, before obtaining CTO from TNPCB.

Agenda No: 356 - 06

(File No: 9123/2022)

Proposed Rough stone & Gravel quarry lease over an extent of 3.65.5 Ha at S.F.No 253/1, 253/2 & 253/9 of Sevalur Village, Ponnamaravathi Taluk, Pudukottai District, Tamil Nadu by Thiru.MR.Anbalagan,- For Environmental Clearance. (SIA/TN/MIN/263016/2022 Dt.23.03.2022).

The proposal was placed for appraisal in this 356th meeting of SEAC held on 17.02.2023. 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/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
2. Earlier, Environmental clearance was obtained from SEIAA, Tamil Nadu vide Lr.No. SEIAA-TN/F.No.3397/EC/1(a)/2879/2015 dated 15.02.2016 for producing 129930 m³ of Rough stone upto 6.0 m depth over an extent of 3.65.5 Ha at


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S.F.No 253/1 & 253/2 of Sevalur Village, Ponnamaravathi Taluk, Pudukottai District, Tamil Nadu.

3. The salient features of the proposed project as follows

Sl. No	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru. Mr. Anbalagan S/o.M.P.L .Murugappan Thevar 409, Malaiyadipatti, Sevalur Post, Ponnamaravathi Taluk, Pudukottai – 622402.
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel
3.	S.F No. Of the quarry site with area break-up	253/1, 253/2 & 253/9
4.	Village in which situated	Sevalur
5.	Taluk in which situated	Ponnamaravathi
6.	District in which situated	Pudukottai
7.	Extent of quarry (in ha.)	3.65.5Ha
8.	Period of quarrying proposed	5 Years
9.	Type of mining	Opencast, Semi-Mechanized mining
10.	Production (Quantity in m3)	As per mining plan, the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 3,13,720 m ³ of Rough Stone, 33,840 m ³ of Weathered Rock and 33840 m ³ of Gravel with an ultimate depth of mining 40m (2m Gravel + 2m Weathered Rock + 36m Rough stone) Below Ground level.


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11.	Annual peak Production (Quantity in m ³)	78950 cu.m of Rough Stone (5 th Year), 16920 cu.m of Weathered Rock (1 st Year) & 16920 cu.m of Gravel (1 st Year).
12.	Ultimate Depth of quarrying	40m (2m Gravel + 2m Weathered Rock + 36m Rough stone) Below Ground level.
13.	Depth of the existing pit	6m
14.	Depth of water table	45m in summer to 50m in rainy season
15.	Latitude & Longitude of all corners of the quarry site	10°17'59.00" N to 10°17'51.00" N 78°37'07.00" E to 78°36'55.00" E
16.	Top Sheet No.	58 J/11
17.	Man Power requirement per day:	10 nos
18.	Precise area communication issued by the Assiatant Director, Department of Geology & Mining with date	Rc.No. 345/2021/(G&M), Dated:03.01.2022
19.	Mining Plan approved by Assistant Director, Department of Geology and mining with date	Rc.No. 345/2021/(G&M), Dated:24.02.2022
20.	500m cluster letter issued by Assistant Director, Department of Geology & Mining.	Rc.No. 345/2021/(G&M), Dated:28.02.2022
21.	VAO certificate regarding 300m radius cluster	Letter furnished
22.	Water requirement: 4. Drinking & Domestic Water (in KLD) 5. Dust suppression(in KLD) 6. Greenbelt (in KLD)	2.0 KLD 0.5 KLD 1.5 KLD 0.5 KLD
23.	Power requirement e. Domestic Purpose	TNEB -
24.	Project Cost	Rs.1,11,90,650/-

25.	EMP cost	Capital cost: Rs.24.94 Lakhs/- Recurring cost: Rs.20.43 Lakhs/- Annum
26.	CER cost	Rs.5.00,000/- as accepted by the PP

7. Earlier, this proposal was placed for appraisal in the 289th meeting of SEAC held on 24.06.2022. Based on the presentation made by the proponent, SEAC decided to obtain the following details from the PP.

- i. The PP shall furnish the certified compliance report from RO-MoEF & CC, Chennai /TNPCB on the existing EC issued.
- ii. The PP shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease & 'Slope Stability Plan' for the proposed quarry.
- iii. The PP shall furnish a letter from DFO regarding location of nearest RF with respect to the project site.
- iv. The PP shall provide details of fencing around the existing quarry.
- v. The PP shall submit a video footage indicating the plantation work carried out so far in and around the existing quarry.

8. Subsequently, this proposal was placed for appraisal in the 534th meeting of SEIAA held on 20.07.2022. After detailed discussions the Authority decided to obtain the following in addition to the above.

- I. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area from reputed research institutions on the following.
 - a) Soil health & bio-diversity.
 - b) Climate change leading to Droughts, Floods etc.
 - c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
 - d) Possibilities of water contamination and impact on aquatic ecosystem health.
 - e) Agriculture, Forestry & Traditional practices.
 - f) Hydrothermal/Geothermal effect due to destruction in the Environment.
 - g) Bio-geochemical processes and its foot prints including environmental stress.
 - h) Sediment geochemistry in the surface streams.

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- II. 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) so as to assess the impacts on the nearby waterbodies 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, covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
- III. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities.
- IV. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.
- V. Detailed Mine Closure Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
- VI. Detailed Environment Management Plan includes adaptation, mitigation & remedial strategies covering the project life (or) subject to a maximum of thirty years, whichever is earlier.

Now, the PP has furnished replies vide Lr.dt: 21.11.2022 to all the points raised by the Committee & Authority and the same was placed for reappraisal in this 356th Meeting of SEAC held on 17.02.2023. The SEAC carefully examined the replies provided by the PP and the SEAC have satisfied with responses given during the deliberations for the conditions stipulated in the CCR issued by the MoEF.

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 3,13,720 m³ of Rough Stone, 33,840 m³ of Weathered Rock and 33840 m³ of Gravel for an ultimate pit depth of 40m (2m Gravel + 2m Weathered Rock + 36m Rough stone) Below Ground level for the five years but however not exceeding an annual peak production capacity of 78950 cu.m of Rough Stone, 16920 cu.m of Weathered Rock & 16920 cu.m of Gravel, subject to the standard**


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

1. **The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.**
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. **The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.**
7. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the


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blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without a prior permission obtained from the Director of Mines Safety, Chennai Region.
9. Since few habitations are situated at a distance range of 500 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
10. 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.
11. 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.
12. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
13. However, 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 a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg.

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

14. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
15. 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.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. 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.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. 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.
20. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the committed activities in Panchayat Union Primary School, Malayadipatti Village as committed, before obtaining CTO from TNPCB.

Agenda No: 356-07

(File No: 9173/2022)

Proposed Rough Stone and Jelly quarry lease over an extent of 2.33.5 Ha at S.F. No. 147, 156/1A, 156/1B, 156/2A, 156/2B, 157/1, 157/2 and 158/3 of Kulathur Village, Vedasandur Taluk, Dindigul District, Tamil Nadu by Thiru. G.V.Kumar - for Environmental Clearance. (SIA/TN/MIN/ 267304/ 2022 dated 11.04.2022)


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The proposal was earlier placed in 292nd Meeting of SEAC held on 07.07.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (www.parivesh.nic.in).

The SEAC noted the following:

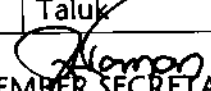
1. The Project Proponent, Thiru.G.V.Kumar has applied for Environmental Clearance for the proposed Rough stone and Jelly quarry lease over an extent of 2.33.5 Ha at S.F. No. 147, 156/1A, 156/1B, 156/2A, 156/2B, 157/1, 157/2 and 158/3 of Kulathur Village, Veda sandur Taluk, Dindigul District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, amended.

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

- (i) The PP shall furnish certified compliance report for the previous EC.
- (ii) Documentary evidence from the concerned District Forest Officer showing the exact distance of location of the nearest R.F from the proposed quarry site.
- (iii) The PP shall furnish revised mining plan indicating proper bench geometry.

The Proponent furnished the details sought and hence the proposal was placed in this 356th meeting of SEAC held on 15.02.2023. The SEAC carefully examined the replies provided by the PP and the SEAC have satisfied with responses given during the deliberations.

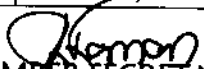
Sl. No.		
1.	Name of the Owner / Firm	Thiru. G.V.Kumar S/o, Govidasamy Residing at Flat No.68 A.K.M.G.Nagr, Karur Road Dindigul
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough Stone and Jelly
3.	S.F No. of the quarry site	147, 156/1A, 156/1B, 156/2A, 156/2B, 157/1, 157/2 and 158/3
4.	Village	Kulathur
5.	Taluk	Veda sandur


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6.	District	Dindigul
7.	Extent of Quarry (in ha.)	2.33.5 Ha (Patta Land)
8.	Period of Quarrying proposed	5years
9.	Type of Mining	Opencast Mechanized Method of Mining
10.	Production (Quantity in m ³)	As per the approved mining plan. Geological reserves: 4,79,175 m ³ of Rough stone and the ultimate depth is 43m 5-year Production: 1,03,966 m ³ of Rough stone (revised quantity) The annual peak production is 20,955 m ³ (2 nd year)
11.	Proposed Depth of Mining for first 5 years	28m Below Ground Level (including Existing Depth)
12.	Ultimate depth of the quarry	43 m
13.	Latitude & Longitude of all corners of the quarry site	10°27'21.79"N to 10°27'27.90"N 78°01'12.70"E to 78°01'24.26"E
14.	Topo sheet No.	58- J/03
15.	Man power requirement	21 Nos
16.	Precise Area Communication	Roc. No. 297/2021(Mines), dated 20.01.2022
17.	Mining plan approval letter	Scheme of Mining: Roc. No. 297/2021(Mines), dated 14.03.2022
18.	500m letter	Rc.No.310/G&M/2017, dated: 14.03.2022
19.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression (in KLD) & Green Belt (in KLD)	2.0 KLD 1.0 KLD & 1.0 KLD
20.	Power requirement: a. Domestic purpose b. Industrial Purpose	TNEB DG sets
21.	Depth of Water table	63m
22.	Whether any habitation within 300m distance	No
23.	Project cost	Rs. 1,34,70,000/-
24.	EMP cost for 5 years	Rs. 88,00,000/-


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25.	CER cost	Rs. 5,00,000/-
26.	VAO letter dated	Letter dated: 16.03.2022

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 total excavation quantity of 1,03,966 m³ of Rough stone for the first 5 years with maintaining an ultimate pit depth of 43m (Below Ground Level- Including Existing Depth) and however the annual peak production shall not exceed 20,955 m³ of Rough stone subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.


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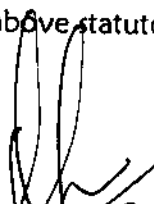
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6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
7. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without a prior permission obtained from the Director of Mines Safety, Chennai Region.
9. Since few habitations are situated at a distance range of 500 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
10. 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.
11. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.



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12. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing bench of 6 m properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
13. However, 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 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
14. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
15. 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.
15. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
16. 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.
17. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.


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18. 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.
19. As accepted by the Project proponent the CER cost is **Rs. 5.0 lakh** and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

Agenda No: 356 - 08

File No: 9179/2022)

Proposed Rough stone and Gravel quarry lease over an extent of 0.67.5 Ha at S.F.No: 839/1A2, Thulaiyanur Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu by Thiru.S.Kalaiselvan- For Environmental Clearance. (SIA/TN/MIN/267648/2022 Dt.13.04.2022).

The proposal was placed for appraisal in this 356th meeting of SEAC held on 17.02.2023. 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/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
2. Earlier, Environmental clearance was obtained from SEIAA, Tamil Nadu vide Lr.No. SEIAA-TN/F.No.1690/EC/1(a)/1779/2015 dated 27.03.2015 for producing 10237 m³ of Rough stone upto 15 m depth over an extent of 0.67.5 Ha at S.F.No: 839/1A2, Thulaiyanur Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu.
3. The salient features of the proposed project as follows

Sl. No.	Salient features of the proposed project	
1.	Name of the Owner/Firm	S.Kalaiselvan S/o. Srinivasan No.5, Subramaniyapuram, 10 th street, Alagappapuram, Sivagangai -630 003.
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel


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3.	S.F No. Of the quarry site with area break-up	839/1A2	
4.	Village in which situated	Thulaiyanur	
5.	Taluk in which situated	Thirumayam	
6.	District in which situated	Pudukkottai	
7.	Extent of quarry (in ha.)	0.67.5Ha (Patta land)	
8.	Period of quarrying proposed	5 Years	
9.	Type of mining	Opencast Mechanized mining	
10.	Production (Quantity in m3)	As per Approved Mining Plan	Revised Quantity
		As per the mining plan, the lease period is for 5 years. The total production for 5 years not to exceed 32,600 m ³ of Rough stone.	As per the mining plan, the lease period is for 5 years. The total production for 5 years not to exceed 17,290 m ³ of Rough stone.
11.	Annual peak Production (Quantity in m3)	11020 cu.m of Rough Stone (1 st Year)	3770 cu.m of Rough Stone (3 rd Year)
12.	Ultimate Depth of quarrying	25m BGL	22.5m BGL
13.	Depth of the Existing pit	12.5m	
14.	Depth of water table	48m BGL	
15.	Latitude & Longitude of all corners of the quarry site	10°12' 45.2879" N to 10° 12' 42.3785" N 78° 44' 15.5822" E to 78° 44' 11.5673" E	

16.	Top Sheet No.	58-J/12
17.	Man Power requirement per day:	18 nos
18.	Precise area communication issued by the Assistant Director, Department of Geology & Mining with date	Rc.No.102/2019 (G&M) dated 25.02.2022
19.	Mining Plan approved by Assistant Director, Department of Geology and mining with date	Rc.No.102/2019, dated 11.03.2022.
20.	500m cluster letter issued by Assistant Director, Department of Geology & Mining.	Rc.No.102/2019, dated 11.03.2022.
21.	VAO certificate regarding 300m radius cluster	Letter Dated:31.03.2022
22.	Water requirement: Drinking & Domestic Water (in KLD) Dust suppression(in KLD) Greenbelt (in KLD)	2.5 KLD 1.0 KLD 0.75 KLD 0.75 KLD
23.	Power requirement Domestic Purpose	TNEB 26,080 Liters of HSD
24.	Project Cost	Rs.38,90,000/-
25.	EMP cost	Capital cost: Rs.6,01,600/- Recurring cost: Rs.3,47,600/- Annum
26.	CER cost	Rs.5,00,000/- as accepted by the PP

4. Earlier, this proposal was placed for appraisal in the 293rd meeting of SEAC held on 23.06.2022. Based on the presentation made by the proponent, the SEAC called for the following details from the PP.


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- i. The PP shall furnish the certified compliance report obtained from MoEF&CC/TNPCB on the existing EC issued.
5. Again, this proposal was placed for appraisal in the 333rd meeting of SEAC held on 01.12.2022. Based on the presentation made by the proponent, the SEAC decided to call for the following details from the PP.
- a) The PP shall furnish the certified compliance report obtained from MoEF&CC/TNPCB on the existing EC issued.
 - b) Videography evidence showing the Greenbelt development incorporating atleast 500 tree plantation along the periphery of the lease and safety barrier of the quarry.
 - c) Videography evidence showing the Complete Installation of fencing along the boundary with proper garland drainage and settling / precipitation pond.
 - d) Revised Plan & Section indicating the revised bench configurations duly approved by the competent authority.

During the meeting the PP has requested for additional time to produce the said details. Therefore, SEAC decided to defer the proposal.

Now, the PP has furnished replies vide Lr.dt: 19.01.2023 to all the points raised by the Committee and the same was placed for reappraisal in this 356th Meeting of SEAC held on 17.02.2023. The SEAC carefully examined the replies provided by the PP and the SEAC have satisfied with responses given during the deliberations.

Based on the presentation made and the documents furnished by the Project proponent after having considered the safety aspects, the SEAC decided to recommend the proposal for the grant of Environmental Clearance for restricted quantity of 17,290 m³ of Rough stone for the five years for the ultimate pit depth of 22.5m Below Ground level but however not exceeding an annual peak production capacity of 3770 cu.m of Rough Stone, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

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

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

2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. **The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.**
7. The PP shall carry out maximum of only two rounds of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.


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8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without a prior permission obtained from the Director of Mines Safety, Chennai Region.
9. Since few habitations are situated at a distance range of 500 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
10. 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.
11. 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.
12. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing bench of 6 m properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
13. However, 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 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-

DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.


14. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
15. 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.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. 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.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. 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.
20. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the committed activities in Govt. High School, Thulaiyanur Village as committed, before obtaining CTO from TNPCB.

Agenda No: 356-09

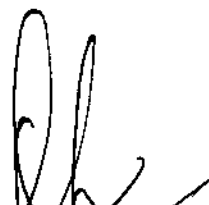
File No: 9180/2022)

Proposed Rough stone & Gravel quarry lease over an extent of 2.45.0 Ha in S.F.No: 96/4, 98/1, 98/2, & 98/3, Kannagudi Village, Kulathur Taluk Pudukkottai District, Tamil Nadu by Thiru. TMR. Rajha Sivakumar - For Environmental Clearance. (SIA/TN/MIN/265622/2022

Dt.06.04.2022)


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The proposal was earlier placed for appraisal in 293rd meeting of SEAC held on 8.7.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (www.parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. TMR. Rajha Sivakumar has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 2.45.0 Ha in S.F.No: 96/4, 98/1, 98/2, & 98/3, Kannagudi Village, Kulathur Taluk Pudukkottai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.

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

- The PP shall furnish the certified compliance report obtained from MoEF&CC/TNPCB on the existing EC issued.

Proponent furnished the details sought and hence the proposal was placed in this 356th Meeting of SEAC held on 15.02.2023. The SEAC carefully examined the replies provided by the PP and the SEAC have satisfied with responses given during the deliberations.

Sl. No.		
1.	Name of the Owner / Firm	Thiru. TMR.Rajha Sivakumar, S/O. R.Ramanujam, No.27, Bagavathipuram, First street, Thiruverumbur, Trichy District - 620 013
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough stone & Gravel
3.	S.F No. of the quarry site	96/4, 98/1, 98/2 & 98/3
4.	Village	Kannagudi
5.	Taluk	Kulathur
6.	District	Pudukkottai
7.	Extent of Quarry (in ha.)	2.45.0 Ha (Patta Land)
8.	Period of Quarrying proposed	5years


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9.	Type of Mining	Opencast Semi Mechanized Method of Mining
10.	Production (Quantity in m ³)	As per the approved mining plan. Geological reserves: 14,74,208 cu.m of Rough stone and 79,776 cu.m of Gravel to the ultimate depth of 67m 5-year Production: 2,19,948 cu.m of Rough stone and 47,240cu.m of Gravel The annual peak production is 5,0310 cu.m of Rough stone (2nd year) & & 32,768 cu.m of gravel (1 st year)
11.	Ultimate Depth of Mining	39m (4m Gravel + 35m Rough stone)
12.	Latitude & Longitude of all corners of the quarry site	10°39'51.95"N to 10°40'00.69"N 78°52'17.16"E to 78°52'21.32"E
13.	Topo sheet No.	58 – J/1 4
14.	Man power requirement	30 Nos
15.	Precise Area Communication	Roc No: 317/2021 (G&M) dated 27.12.2021
16.	Mining plan approval letter	Rc.No.317/2021(G&M) dated 31.01.2022
17.	500m letter	Rc.No.317/2021 (G&M) dated 31.01.2022
18.	Water requirement:	2.5 KLD
	3. Drinking & domestic purposed (in KLD)	1.5 KLD
	4. Dust Suppression (in KLD) & Green Belt (in KLD)	1.0KLD
19.	Power requirement:	TNEB
	c. Domestic purpose	-
	d. Industrial Purpose	-
20.	Depth of Water table	70m– 75 m
21.	Whether any habitation within 300m distance	No
22.	Project cost	Rs.1,41,95,554
23.	EMP cost for 5 years	Rs. 91,85,554/-
24.	CER cost	Rs. 5,00,000/-
25.	VAO letter dated	Letter dated: 28.02.2022

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a


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production quantity of 2,19,948 cu.m of Rough stone and 47,240 Cu.m of Gravel with maintaining the ultimate depth of 39m (4m Gravel + 35m Rough stone) and however not exceeding the annual peak production of 50,310 cu.m of Rough stone & 32,768m³ of gravel as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.


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7. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without a prior permission obtained from the Director of Mines Safety, Chennai Region.
9. Since few habitations are situated at a distance range of 500 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
10. 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.
11. 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.
12. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing bench of 6 m properly


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aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.

13. However, 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 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
14. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
15. 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.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. 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.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.II dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.

20.As accepted by the Project proponent the CER cost is **Rs. 5.0 lakh** and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

Agenda No: 356 - 10

File No: 9199/2022)

Proposed Rough stone & Gravel quarry lease over an extent of 0.78.0 Ha in S.F.No127/2, 127/3 Themmavur Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Tmt.A.Mahalakshmi - For Environmental Clearance.

(SIA/TN/MIN/268185/2022 Dt. 18.04.2022)

The proposal was placed for appraisal in this 293rd meeting of SEAC held on 08.07.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.A.Mahalakshmi has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 0.78.0 Ha in S.F.No127/2, 127/3 Themmavur Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The mining plan is for the period of Five years. The total production for 5 years not to exceed 38972 m³ of Rough stone. The annual peak production shall not exceed 8330m³ of Rough stone (2nd year) with ultimate depth of 38m.

Sl. No		
1	Name of the Owner/Firm	: Tmt. A.Mahalakshmi W/o Andiyappan No.301, Kallar Street, Koppampatti Themmavur Post, Kulathur Taluk Pudukkottai- 622 203.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone & Gravel


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3	S.F No. Of the quarry site with area break-up	:	127/2, 127/3
4	Village in which situated	:	Themmavur
5	Taluk in which situated	:	Kulathur
6	District in which situated	:	Pudukkottai
7	Extent of quarry (in ha.)	:	0.78.0Ha
8	Latitude & Longitude of all corners of the quarry site	:	10°37'03.89"N to 10°37'07.72"N 78°55'01.43"E to 78°55'05.85"E
9	Topo Sheet No.	:	58- J/14
10	Type of mining		Opencast Semi-Mechanized of Mining
11	Period of quarrying proposed	:	5 years
12	Production (Quantity in m ³)	:	38972 m ³ of Rough Stone
13	Depth of quarrying	:	38.0m
14	Depth of water table	:	75 m BGL
15	Man Power requirement per day:		22 Nos.
16	Source of Water Requirement		water vendors
17	Water requirement:	:	2.0 KLD
	9. Drinking & domestic purposes (in KLD)		1.0KLD
	10. Dust suppression, Green Belt &Wet Drilling (in KLD)		0.5KLD
			0.5KLD
18	Power requirement		
	a. Domestic Purpose		TNEB
	b. Industrial Purpose		31,168litres of HSD
19	Whether any habitation within 300m distance	:	No

20	Precise area communication approved by the, Assistant Director, Department of Geology and Mining with date	:	Rc.No.672/2021(G&M), dated:15.3.2022
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Rc.No.672/2021(G&M), dated:28.03.2022
22	Assistant Director, Department of Geology and Mining 500m cluster letter	:	Rc.No.672/2021(G&M), dated:28.03.2022
23	VAO certificate regarding 300m radius cluster	:	Letter dt: 04.04.2022
24	Project Cost (excluding EMP cost)	:	Rs.36.74 Lakh
25	EMP cost	:	Rs. 15.30 Lakhs
26	CER cost	:	Rs.0.73 Lakhs

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

1. The PP shall furnish the certified compliance report obtained from MoEF&CC/TNPCB on the existing EC issued.

Subsequently, the proposal was placed in the 538th Authority meeting held on 25.07.2022. The Authority decided to communicate the SEAC minutes to the project proponent held on 08.07.2022.

The proponent has furnished reply vide lr. Dt: 07.11.2022. In view of the above, the proposal was again placed in the 356th SEAC meeting Dt: 17.02.2023. Based on the presentation and documents furnished by the project proponent, SEAC noted that earlier EC was issued vide Lr. SEIAA-TN/F.No.1443/EC/1(a)/1266/2013 Dt:13.05.2014 for the proposed Rough Stone quarry over an extent of 0.78.0 Ha with production of 30,900 Cu.m of Rough Stone & Depth upto 14m based on the previous Approved Mining Plan. However, it was noticed that the existence of pit dimension (80m (Length) X 42m (Width) X 16m (Depth)) in the proposed quarry as per the Mining Plan approved for the second spell of the quarrying in the same survey numbers.

In view of the above, SEAC has decided that the PP shall obtain clarification from


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AD/DD Geology & Mining Dept., Pudukkottai District on the excavation of 2 m beyond the stipulated depth of 14 m as per the previous EC and Approved Mining Plan and penalty levied if any.

Agenda No: 356-11

(File No: 9224/2022)

Proposed Rough Stone and gravel quarry Lease over an extent of 2.53.50 Ha at S.F.No. 351/1 & 351/2 in Athur Village, Arakkonam Taluk, Ranipet District, Tamilnadu by Thiru.R.B.Raja – For Environmental Clearance. (SIA/TN/MIN/271091/2022 dated 04.05.2022)

The proposal was placed in 356th meeting of SEAC held on 17.02.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru.R.B.Raja** has applied for Environmental Clearance for the proposed Rough Stone and gravel quarry Lease over an extent of 2.53.50 Ha at S.F.No. 351/1 & 351/2 in Athur Village, Arakkonam Taluk, Ranipet District, Tamilnadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the project area as follows:

Sl. No	Details of the Proposal	Remarks
1	Name of the Owner/Firm	Thiru. R.B. Raja S/o Balaraman, No: 2/261, Pillaiyar Kovil Street, Seyyur Village & Post, Arakkonam Taluk, Ranipet District.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough stone and Gravel Quarry
3	S.F No. Of the quarry site with area break-up	351/1 & 351/2
4	Village in which situated	Athur
5	Taluk in which situated	Arakkonam
6	District in which situated	Ranipet


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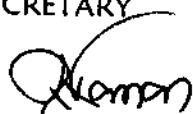
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7	Extent of quarry (in ha.)	2.53.50
8	Latitude & Longitude of all corners of the quarry site	13°02'42.52"N to 13°02'49.60"N 79°43'12.15"E to 79°43'17.88"E
9	Topo Sheet No.	57 O/12
10	Type of mining	Opencast Semi Mechanized Mining
	Period of Lease granted	10 years
11	First Tentative Production and Development Programme as proposed in the Approved Mining Plan	5 years
12	Production (Quantity in m ³)	3,50,456m ³ of rough stone, 1,03,160m ³ of gravel and 35,664m ³ of weathered rock; Annual peak production of 70,510m ³ of rough stone (3 rd year).
13	Ultimate Depth of mining	40m below ground level
14	Depth of water table	65m to 68m BGL
15	Man Power requirement per day:	23 Nos.
16	Water requirement:	2.5 KLD
	1. Drinking	1.5 KLD
	2. Dust suppression	0.5 KLD
	3. Green Belt	0.5 KLD
17	Power requirement	-
18	Precise area communication approved by the Assistant Director(i/c), Dept. of Geology and Mining with date	Rc.No.10/2021 (Mines), Dated: 24.02.2022.
19	Mining Plan approved by the Assistant Director (i/c), Dept. of Geology and Mining with date	Rc.No.10/2022(Mines) Dated: 09.03.2022.
20	500m cluster letter issued by the Assistant Director (i/c), Dept. of Geology and Mining with date	Rc.No.10/2021(Mines) Dated: 29.03.2023.
21	VAO certificate regarding habitations in 300m radius	Letter dated: 01.04.2022.
22	Project Cost (excluding EMP)	Rs.64,64,000/-
23	EMP cost	Capital Cost: Rs. 22,39,500/- Recurring Cost: Rs.20,45,300/-

4. Earlier, the proposal was placed in 300th & 334th SEAC meeting and was deferred for obtaining additional particulars as stated in the minutes.

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5. On receipt of reply from the proponent, the proposal is again placed in this 356th meeting of SEAC.


The SEAC carefully examined the replies provided by the PP and the SEAC have satisfied with responses given during the deliberations.

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, **SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 3,50,456m³ of rough stone, 1,03,160m³ of gravel and 35,664m³ of weathered rock for an ultimate pit depth of 40m Below ground level with annual peak production of not exceeding 70,510m³ of rough stone**, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone

of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.

6. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
7. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without a prior permission obtained from the Director of Mines Safety, Chennai Region.
8. Since few habitations are situated at a distance range of 500 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
9. 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.
10. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.


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11. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
- 12. The PP shall ensure that the mandatory safety pillar of not less than 10 m adjacent to the old & abandoned pit for the safety reasons.**
13. Hence, 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 2 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
14. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
15. 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.
16. The PP shall carry out the comprehensive hydrogeological studies within 2 years of the commencement of quarrying operation to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study

report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

17. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
18. 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.
19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
20. 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.
21. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Middle School, Seiyur Village for the following activities as committed, before obtaining CTO from TNPCB.

Agenda No: 356 - 12

(File No: 9251/2022)

proposed Rough Stone and Gravel quarry over an extent of 0.84.0 Ha (Patta land) in S.F.No.31/1B, 31/1C(Part), 31/1E1(Part) and 31/1E2 (Part) of Nallur Village, Anaimalai Taluk and Coimbatore District by Thiru. T. Pasupathi - For Environmental Clearance. (SIA/TN/MIN/272021/2022, dated: 10.05.2022)

The proposal was placed for appraisal in this 356th SEAC meeting held on 17.02.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. T. Pasupathi has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry over an extent of 0.84.0Ha (Patta land) in S.F.No.31/1B, 31/1C(Part), 31/1E1(Part) and 31/1E2 (Part) of Nallur Village, Pollachi Taluk and Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.


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3. Earlier the proposal was placed in 301st SEAC meeting held on 06.08.2022. Based on the presentation made by the proponent, SEAC decided to call for the following details from the PP;

1. The PP shall furnish the certified compliance report obtained from MoEF&CC/TNPCB for the existing EC issued.
2. Since the Anaimalai Tiger Reserve is located at a distance of 9.33 km away & its ESZ is yet to be notified, the PP shall obtain NBWL Clearance.

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

The proposal is now placed in the 356th SEAC meeting held on 17.02.2023. During the presentation, proponent requested time for submission of additional details as pointed out by the SEAC, regarding NBWL clearance. Hence, SEAC decided to defer the proposal.

Agenda No: 356-13

(File No: 9273/2022)


Proposed Rough Stone & Gravel quarry Lease over an extent of 3.44.10 Ha at S.F.No. 193/1 (P), 193/2(P) & 193/3 in Chennimalai Village, Perundurai Taluk, Erode District, Tamil Nadu by. Thiru. P. Thamilarasu – For Environmental Clearance (SIA/TN/MIN/272876/2022 dated 19.05.2022)

The proposal is placed in this 356th SEAC meeting held on 17.02.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

SEAC noted the following:

1. The Project Proponent, Thiru. P. Thamilarasu has applied for Environmental Clearance for the Proposed **Rough Stone & Gravel quarry Lease over an extent of 3.44.10 Ha at S.F.No. 193/1 (P), 193/2(P) & 193/3 in Chennimalai Village, Perundurai Taluk, Erode District, Tamil Nadu.**
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the project area as follows:


Sl. No	Details of the Proposal	Date
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1	Name of the Owner/Firm	Thiru. P.Thamilarasu S/o. Ponnusamy No. 62, Theeththampalayam Karumandisellipalayam (POST) Perundurai, Erode -638052
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough stone and Gravel Quarry
3	S.F No. Of the quarry site	193/1 (P), 193/2 (P) and 193/3
4	Village in which situated	Chennimalai
5	Taluk in which situated	Perundurai
6	District in which situated	Erode
7	Extent of quarry (in ha.)	3.44.10 Ha
8	Latitude & Longitude of all corners of the quarry site	11°11'40.21"N to 11°11'46.27"N 77°33'52.27"E to 77°33'59.39"E
9	Topo Sheet No.	58 E/12
10	Type of mining	Opencast Mechanized method of mining
	Period of Lease	5 years
11	Period of Mining Plan	5 years
12	Production (Quantity in m ³)	5,15,950 m ³ of Rough Stone & 58,128 m ³ of Gravel; Annual peak production of 1,08,990m ³ of rough stone (3 rd year).
13	Ultimate pit Depth of mining	27m below ground level
14	Depth of water table	68m to 73m below ground level
15	Man Power requirement per day:	58 Nos.
16	Water requirement:	3.0 KLD
	17. Drinking	1.0 KLD
	18. Dust suppression	1.5 KLD
	19. Green Belt	0.5 KLD
17	Power requirement	4,22,458 liters of HSD
18	Precise area communication approved by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.286/Mines/2021, Dated:31.03.2022


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19	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.286/Mines/2021, Dated:20.04.2022
20	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.286/Mines/2021, Dated:20.04.2022
21	VAO certificate regarding habitations within 300m radius	Enclosed
22	Project Cost (excluding EMP)	Rs.88,97,000/-
23	EMP cost	Capital Cost: Rs.68,84,175/- Recurring Cost: Rs. 26,79,432/-

20. Earlier, the proposal was placed in 300th & 334th SEAC meeting and was deferred for obtaining additional particulars as stated in the minutes.

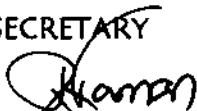
21. On receipt of reply from the proponent, the proposal is again placed in this 356th meeting of SEAC.

The SEAC carefully examined the replies provided by the PP and the SEAC have satisfied with responses given during the deliberations.

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, **SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 5,15,950 m³ of Rough Stone & 58,128 m³ of Gravel for an ultimate depth of 27m Below ground level with annual peak production of not exceeding 1,08,990m³ of rough stone**, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

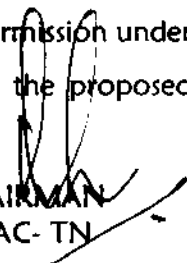
1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.

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3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
7. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without a prior permission obtained from the Director of Mines Safety, Chennai Region.
8. Since few habitations are situated at a distance range of 500 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG


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Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

9. 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.
10. 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.
11. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
12. **The PP shall ensure that the mandatory safety pillar of not less than 10 m adjacent to the old & abandoned pit for the safety reasons.**
13. Hence, 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 2 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
14. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
15. 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.

16. The PP shall carry out the comprehensive hydrogeological studies within 2 years of the commencement of quarrying operation to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
17. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
18. 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.
19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
20. 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 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories 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.
21. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.


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17. As accepted by the Project proponent the CER cost is Rs. **5 lakhs** and the amount shall be spent for the Panchayat Union Middle School, Thoppupalayam Village for the following activities as committed, before obtaining CTO from TNPCB.

Agenda No: 356 - 14
(File No: 9305/2022)

Proposed Rough Stone & gravel quarry lease over an extent of 0.49.4 Ha at S.F.Nos. 11/4B, Perundurai Village, Thirumayam Taluk, Pudukkottai District, Tamil Nadu by Thiru K P Saravanan-For Environmental Clearance (SIA/TN/MIN/275804/2022, Dated:01.06.2022).

The proposal was placed in this 356th meeting of SEAC held on 17.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

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

S. No		
	Name of the Owner/Firm	Thiru.K. P. Saravanan, S/o. Ponnambalam, Virachilai Village, Thirumayam Taluk, Pudukkottai -622412.
	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel
	S.F No. Of the quarry site with area break-up	11/4B
	Village in which situated	Perundurai
	Taluk in which situated	Thirumayam
	District in which situated	Pudukkottai
	Extent of quarry (in ha.)	0.49.4 Ha (Patta Land)
	Lease Period of quarry	5 Years
	Type of mining	Opencast Mechanized mining
	Production (Quantity in m3)	As per Approved Mining Plan
		Revised Quantity


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		As per the mining plan, the lease period is for 5 years. The total production for 5 years not to exceed 21,405 m ³ of Rough stone and 7,905 cu.m of Gravel.	As per the mining plan, the lease period is for 5 years. The total production for 5 years not to exceed 19,400 m ³ of Rough stone and 7,905 cu.m of Gravel.
1.	Annual peak Production (Quantity in m ³)	5,180 cu.m of rough stone (5 th Year) & 5880 cu.m of Gravel (1 st year)	5460 cu.m of rough stone (4 th Year) & 5880 cu.m of Gravel (1 st year)
	Ultimate Depth of quarrying	23.0m (3.0m Gravel + 20m Rough Stone)	18m BGL (3.0m Gravel + 15m Rough Stone)
	Depth of water table	75m BGL Summer Season- 70m BGL Rainy Season	
	Latitude & Longitude of all corners of the quarry site	10° 16' 05.38" N to 10° 16' 08.61" N 78° 43' 12.83" E to 78° 34' 15.04" E	
	Top Sheet No.	58-J/11	
	Man Power requirement per day:	18 nos	
	Precise area communication issued by the Assistant Director, Department of Geology & Mining with date	Rc.No.146/2022 (G&M) dated 10.05.2022	
	Mining Plan approved by Assistant Director, Department of Geology and mining with date	Rc.No.146/2022, dated 19.05.2022.	
	500m cluster letter issued by Assistant Director, Department of Geology & Mining.	Rc.No.146/2022, dated 19.05.2022.	
	VAO certificate regarding 300m radius cluster	Letter Dated:25.02.2022	
2.	Water requirement:	2.0 KLD	
	11. Drinking & Domestic Water (in KLD)	1.0 KLD	
	12. Dust suppression(in KLD)	0.5 KLD	
	13. Greenbelt (in KLD)	0.5 KLD	
	Power requirement	TNEB	


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f. Domestic Purpose	18,444 Liters of HSD
Project Cost	Rs.28,95,200/-
EMP cost	Capital cost: Rs.4,49,000/- Recurring cost: Rs.3,78,000/- Annum
CER cost	Rs.5.00,000/- as accepted by the PP

Based on the presentation made and the documents furnished by the Project proponent, SEAC considering the safety aspects decided to recommend the proposal for the grant of Environmental Clearance for the restricted quantity of 19,400 m³ of Rough stone and 7,905 cu.m of Gravel for an ultimate pit depth of 18m (3.0m Gravel + 15m Rough Stone) below ground level but however not exceeding an annual peak production capacity of 5460 cu.m of rough stone & 5880 cu.m of Gravel, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.

5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. **The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.**
7. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
9. Since few habitations are situated at a distance range of 500 m to 700 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
10. 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.
11. 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


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

12. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
13. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
14. 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.
15. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
16. 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.
17. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
18. 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.
19. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the committed activities in Panchayat Union Primary School, Perundurai Village as committed, before obtaining CTO from TNPCB.

Agenda No: 356 - 15
(File No: 9310/2022)


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Proposed gravel quarry lease over an extent of 4.16.0 Ha at S.F.Nos. 910/1 & 911/1, suriyannallur Village, Dharapuram Taluk, Tiruppur District, Tamil Nadu by Thiru P Subramaneam - for Environmental Clearance (SIA/TN/MIN/276475/2022, Dated:04.06.2022).

The proposal was placed in this 356th meeting of SEAC held on 17.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). During the meeting the PP has informed that the proposal would like to withdraw hence SEAC defer the proposal and requested to SEIAA to take further action in this regard.

Agenda Item No.-356-16

F.No.9336/2022

Proposed Quartz and Feldspar Quarry over an extent of 1.41.29 Ha in S.F.Nos. 281/4A2 of Kurumbapatti Village, Edappadi Taluk, Salem District, Tamil Nadu by M/s. Sri Sanjay Mines -For Environmental Clearance. (SIA/TN/MIN/ 274950 /2022 dated 13.06.2022)

The proposal was placed in this 356th Meeting of SEAC held on 17.02.2023. 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. Sri Sanjay Mines**, has applied seeking Environmental Clearance for the Proposed Quartz and Feldspar Quarry over an extent of 1.41.29 Ha in S.F.Nos. 281/4A2 of Kurumbapatti Village, Edappadi Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.

S. No	Details of the Proposal	
1	Name of the Owner/Firm	M/s. Sri Sanjay Mines, Prop: K. Ganesh Babu, S/o. P. Kadhivel, No. 25/1, Sabarmathi Street, Nedunchalai Nagar, Suramangalam, Salem – 636 005.


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2	Type of quarrying (Savudu/ Rough Stone/Sand/Granite/ Others)	Quartz and Feldspar Mines
3	S.F No. Of the quarry site with area break-up	281/4A2
4	Village in which situated	Kurumbapatti
5	Taluk in which situated	Edappadi
6	District in which situated	Salem
7	Extent of quarry (in ha.)	1.41.29 Ha
8	Latitude & Longitude of all corners of the quarry site	11°33'38.62807" N to 11°33'42.02422"N 77°52'02.91781"E to 77°52'11.14104" E
9	Topo Sheet No.	58E/14
10	Type of mining	Opencast Semi- Mechanized Mining
11	Period of Lease granted	10 years
	First Tentative Production and Development Programme as proposed in the Approved Mining Plan	5 years
12	Production (Quantity in m ³)	7943 MT of top soil, 1,69,785MT of RoM and 16,979 MT of Quartz (@10% recovery), 1,35,828 MT of Feldspar (@ 80% recovery) & 16,979MT of rejects
13	Ultimate pit Depth of mining	19m from the surface
14	Depth of water table	35m below ground level
15	Man Power requirement per day:	22 Nos.
16	Water requirement:	5.25 KLD
	1. Drinking & domestic purposes	1.25 KLD
	2. Sprinkling on haul roads	2.0KLD
	3. Green Belt	1.5 KLD
	4. Wet Drilling Operation	0.5 KLD
17	Power requirement	80 lts/day


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18	Precise area approved by the Principal Secretary to Government, with date	Lr.No.2148/MMC.1/2021-1, Dated: 02.11.2021.
19	Mining Plan approved by the Additional Director, Dept. of Geology and Mining with date	Rc.No.2919/MM7/2020, Dated: 16.05.2022.
20	500m cluster letter issued by the Deputy Director, Dept. Geology and Mining with date	Rc.No.304/2020/Mines-A, Dated: 10.06.2022.
21	VAO certificate regarding habitations in 300m radius	Letter dated: 28.05.2022.
22	Project Cost (excluding EMP)	Rs.27 lakhs/-
23	EMP cost	Capital Cost: Rs.16,42,000/- Recurring Cost: Rs.8,10,000/- Total for 5 years: Rs. 61.17 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 total production of 1,69,785MT of RoM including 16,979 MT of Quartz (@10% recovery), 1,35,828 MT of Feldspar (@ 80% recovery) & 16,979MT of rejects & also 7943 MT of top soil, during the period of first five years with the Annual peak production as per mining plan shall not exceed 35670MT of ROM with maintaining the Ultimate depth of 19 m 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 erect barbed wire fencing all around the boundary of the proposed area with gates for entry/exit before executing the lease deed and shall


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- furnish the photographs/map showing the same to the SEIAA before obtaining the CTO.
3. The PP shall incorporate the DGPS readings for the entire boundary pillars of the proposed area and the same shall be properly digitized in the Mining Plan which shall be submitted to the AD (Geology & Mines) before the execution of lease deed.
 4. The PP shall ensure that all the workers employed by her control are properly registered in the Labour Welfare Board and also enrolled in any of the ongoing Insurance Scheme and a copy of such registration compliance report shall be sent to the District Collector, Salem District before execution of the lease deed.
 5. The Proponent shall conduct Initial Medical Examination & Periodical Medical Examination accordingly for all the workers including the contractual employees in the DGMS approved Medical Centre to ensure health aspects under the provisions of Mines Rules, 1955.
 6. The mine manager and other statutory competent persons such as mine mate, blaster shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
 7. The Proponent shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB and a copy of such permission letter obtained from the DGMS shall be submitted to the concerned AD (Mines) & SEIAA.
 8. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
 9. Since the quarry is located near the habitations, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
 10. The PP shall ensure that all the work persons employed by her including the contractual employees undergo the basic training courses including Occupational health Hazards in Quartz & Feldspar Mines for a period of not less than a week in the DGMS approved Vocational Training Centre (VTC) located in Salem (or)

Trichy before obtaining the CTO from TNPCB. A copy of such training programme compliance report shall be sent to the AD (Mines), DEE/TNPCB, DMS/Chennai, SEIAA and the MoEF/IRO, Chennai.

11. The PP shall ensure that all the work persons employed by her including the contractual employees undergo the basic training courses for a period of not less than a week to get trained with 'Safety Management Plan' in the DGMS approved Vocational Training Centre (VTC) located in Trichy (or) Salem, within one year from the commencement of quarrying operations. A copy of such training programme compliance report shall be sent to the AD (Mines), DEE/TNPCB, DMS/Chennai, SEIAA and the MoEF/IRO, Chennai.
12. The Proponent shall furnish the details of final mine closure strategies and the details on amount to be deposited into the DMF account to the TNPCB before obtaining the CTO and a copy of the same shall be informed to the SEIAA and IRO/MoEF, Chennai.
13. The PP shall construct rain water harvesting structure and artificial recharge structure in the lease area as also implement other/suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, CGWB.
14. The Proponent shall adopt only the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
15. Since few unapproved layouts/structures are located within 300 m, the Proponent shall carry out maximum of one round of mild controlled blast only per day during the daytime, 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 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.


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16. Further, the Proponent shall carry out the scientific studies on 'Design of controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock for the structures located within 500 m from the mine', within six months from the commencement of mining operations, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
17. The PP shall maintain 7.5 m green belt in buffer zone and existing buffer zone plantation shall not be disturbed through life of the quarry.
18. The PP shall take adequate dust suppression measures to meet the CPCB stipulated ambient air quality standards at any point of time. Further, Fugitive emission measurements should be carried out during the mining operation and the report on the same may be submitted to SEIAA once in six months.
19. The PP shall comply with the proposals furnished in Environmental Management Plan. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
20. 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.
21. 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.
22. 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.

23.As accepted by the Project proponent, the CER cost is Rs.5 lakhs and the amount shall be spent for activities as committed during the appraisal of the project by SEAC before obtaining CTO from TNPCB.

Agenda No: 356-17

(File No: 9344/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 0.86.0 Ha in SF. Nos. 252/1B (Part) of Andipalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Tmt.P.Kannammal- For Environmental Clearance.

(SIA/TN/MIN/279042/2022 Dated 20.06.2022)

The proposal was placed in 336th Meeting of SEAC held on 17.02.2023. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tmt.P.Kannammal has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 0.86.0 Ha at SF.No.252/1B (Part) of Andipalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification,2006.
3. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 39,112m³ of Rough stone & 1440m³ of Gravel with an ultimate depth of mining 32m BGL. The annual peak production is 7904m³ of Rough stone (2nd & 3rd year) & 1440m³ of Gravel(1st year).

Sl.No	Details of the Proposal	Proprietor
1.	Name of the Owner / Firm	Tmt.P.Kannammal W/o.Ponnusamy No.5/45, VinayagarKovil Street Seripalayam Kinathukadavu Coimbatore - 642120


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2.	Type of quarrying	Rough Stone & Gravel
3.	S.F No. of the quarry site	252/1B (Part)
4.	Village in which situated	Andipalayam
5.	Taluk in which situated	Kinathukadavu
6.	District in which situated	Coimbatore
7.	Extent of Quarry (in ha.)	0.86.0 Ha
8.	Period of Quarrying proposed	5 Years
9.	Type of Mining	Open cast Semi Mechanized Mining
10.	Production (Quantity in m ³)	As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 39,112m ³ of Rough stone & 1440m ³ of Gravel with an ultimate depth of mining 32m BGL. The annual peak production is 7904m ³ of Rough stone (2 nd & 3 rd year) & 1440m ³ of Gravel(1 st year).
11.	Latitude & Longitude of all corners of the quarry site	10°47'45.77"N to 10°47'49.37"N 77°05'04.31"E to 77°05'08.05"E
12.	Topo sheet No.	58 F/01
13.	Man power requirement per day:	16 Employees
14.	Precise Area Communication approved by the Assistant Director of Geology and Mining with date	Rc.No. 1341/Kanimam/2021,dated: 28.04.2022
15.	Mining plan approved by the Assistant Director of Geology and Mining with date	Rc.No. 1341/Mines/2021,dated: 04.05.2022
16.	AD mines 500m cluster letter by the Assistant Director of Geology and Mining with date	Rc.No. 1341/ Mines /2021,dated: 04.05.2022
17.	Water requirement: 1. Drinking Water 2. Dust Suppression 3. Green-Belt	2.0 KLD 1.0 KLD 0.5KLD 0.5 KLD


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18.	Power requirement: a. Domestic purpose b. Machinery works	TNEB 12652 Liters of HSD will be utilized for Stone.
19.	Ultimate Depth of Mining	22m BGL
20.	Depth of Water table	53m BGL
21.	Whether any habitation within 300m distance	Nil
22.	Project cost	Rs. 49,16,000
23.	EMP cost	Rs.31.91 Lakhs
24.	CER cost	Rs.5 Lakhs
25.	VAO letter dated	04.05.2022

Based on the presentation, documents including the Mining Plans and Certified Compliance Report, the SEAC had instructed to revise the Production & Development Conceptual Plan prepared for the remaining lease period of the project for ensuring the safety of the quarry by developing the working faces only in the top portion of the lease area. Accordingly the PP had submitted the revised plan which has been prepared and certified in accordance with the system established by the State Government pursuant to the proviso to clause (b) of sub-section (2) of section 5 MM (DR) Amendment Act 2015 and it is also prepared by the Qualified Person in accordance with the provisions of Rule 41 of the Tamil Nadu Minor Mineral Concession Rules (TNMMCR), 1959. The revised excavation details from the mineable geological resources are given as follows:

Geological Resources							
secto	Bench	length in (m)	Width in (m)	Depth in (m)	Volum e m3	Gravel	Geologic al
XY-AB	I	111	80	2	17760	17760	
	II	111	80	25	22200		222000
Total						17760	222000


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Minesable Reserves							
section	Bench	length	Width	Depth	Volume	Gravel	Rough Stone
XY-AB	I	45	26	2	2340	2340	
	II	44	25	5	5500		5500
	III	39	20	5	3900		3900
	IV	34	15	5	2550		2550
Total						2340	11950

Yearwise Production								
Year	section	Bench	length in (m)	Width in (m)	Depth in (m)	Volume	Gravel	Rough Stone
I	XY-AB	I	23	26	2	1196	1196	
		II	22	25	5	2750		2750
Total							1196	2750
II	XY-AB	I	22	26	2	1144	1144	
		II	22	25	5	2750		2750
Total							1144	2750
III	XY-AB	III	22	20	5	2200		2200
Total								2200
IV	XY-AB	III	17	20	5	1700		1700
		IV	6	15	5	450		450
Total								2150
V	XY-AB	IV	28	15	5	2100		2100
Total								2100
Grand Total							2340	11950

Hence, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 11,950m³ of Rough Stone and 2340m³ of gravel (available from the top most benches only) not exceeding the annual peak production of 2750m³ of Rough Stone and 1196m³ of gravel with maintaining an ultimate pit depth of 22m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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


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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 send the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO from the TNPCB.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961. A copy of list of appointment of such statutory person shall be sent to the concerned AD (Geology & Mines) and the DEE/TNPCB before commencement of the mining operation.
4. The proponent shall construct 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/map showing the same before obtaining the CTO from TNPCB.
5. The PP shall excavate the rough stone only from the top most three benches with maintaining the both bench height & width of 5 m without any deviation after removing the gravel from the surface ground level.
6. The PP shall not extract (or) dig out any rough stone further by deepening from the existing pit bottom for securing the safety requirements in accordance with the statutory provisions of MMR 1961 and accordingly the accessibility to the existing pit bottom shall be fenced with barbed wire by the PP before obtaining the CTO from TNPCB.
7. **The PP shall ensure that the aforesaid restricted excavation activities are carried out only in the demarcated areas of the revised Plan under the direct supervision of the concerned Qualified Person (QP) who was authorized by the Dept of Geology and Mining for preparing the above scheme of plan for the mine in accordance with the provisions of the TNMMCR, 1959 and other laws as applicable to the minor minerals.**
8. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering


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the wind direction, shall install fencing and Garland drain before obtaining the CTO from the TNPCB.

9. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
10. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
11. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall within one year from the commencement of operation, 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.
12. As a part of EC Compliance, the PP shall carry out the tree plantation (2000 nos) to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
13. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
14. The PP shall carry out maximum of one round of controlled blast only per day, restricted to the maximum of 30 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

15. 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.
16. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
17. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
18. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
19. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
20. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
21. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
22. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Govt Higher Secondary School, Serippalayam as committed, before obtaining CTO from TNPCB.

Agenda No: 356-18

(File No: 9345/2022)

Proposed Rough stone and Gravel quarry lease over an extent of 0.44.5 Ha (patta) at S.F.Nos. 5/1,14,8,9,10,11 & 5/12B of Keeranur Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Thiru.S.Ganesan (Legal hirer Thiru. G. Vaithishwaran, S/o. S. Ganesan (Applicant) - For Environmental Clearance (SIA/TN/MIN/277361/2022, dated: 09.06.2022)


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Earlier, this proposal was placed for appraisal in this 308th meeting of SEAC held on 01.09.2022. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.S.Ganesan, has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 0.44.5 Ha (patta) at S.F.Nos. 5/1,14,8,9,10,11 & 5/12B of Keeranur Village, Kulathur Taluk, Pudukkottai 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. Since the expired of the applicant Thiru.S.Ganesan, the legal hirer Thiru. G. Vaithishwaran, S/o. S. Ganesan (Applicant) has continued the process.
4. The AD mines has issued the letter in this regard.

Sl. No.		
1.	Name of the Owner / Firm	Thiru.S.Ganesan S/o.Sinnaiya Pallathupatti,Keeranur, Pudukkottai District -622502
2.	Type of quarrying	Rough stone and gravel
3.	S.F No. of the quarry site with area break-up	5/1,14,8,9,10,11 & 5/12B
4.	Village in which situated	Keeranur
5.	Taluk in which situated	Kulathur
6.	District in which situated	Pudukkottai
7.	Extent of Quarry (in ha.)	0.44.0 Ha
8.	Period of Lease	Five years
9.	Type of Mining	Opencast mechanized method.
10.	Production (Quantity in m ³)	10,660 Cu.m of Rough stone and 864 Cu.m of Gravel with an ultimate depth of mining 15.5 m. Annual peak production – 2400 m ³ of Rough Stone (1 st year) & 864 m ³ of Gravel (1 st year)
11.	Latitude &Longitude of all corners of the quarry site	10°35'55.81"N to 10°36'01.71"N 78°46'37.21"N to 78°46'38.89"N
12.	Topo sheet No.	58 – K/8
13.	Precise Area Communication approved by the District Collector	Rc.No.494/2019(G&M), Date: 09.03.2022

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14.	Mining plan approved by the Assistant Director of Geology and Mining with date	Rc.No.494/2019(G&M), Dated: 09.03.2022.
15.	500mts letter approved by the Assistant Director of Geology and Mining with date	Rc.No.62/2020(G&M), Dated: 09.03.2022
16.	Ultimate Depth of Mining	15.5 m
17.	Project cost	Rs. 21.94 Lakhs
18.	EMP cost	Capitol cost – Rs. 4,01,000/ year Recurring cost- Rs. 2,63,715/year Total- 18,58,192/5 years
19.	CER cost	RS.5 lakhs

Based on the presentation and documents furnished by the project proponent, SEAC considering the safety point of view, mining activity falls in SF No. 5/12B & less than 12m width bench shall be removed. Accordingly **decided to recommend the proposal for the grant of Environmental Clearance** for the restricted production of 10,660 cu.m of Rough stone & 864 cu.m of Gravel for an ultimate depth of 15.5 m with annual peak production – 2400 m³ of Rough Stone (1st year) & 864 m³ of Gravel (1st year), subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the specific conditions

Subsequently it was placed in 553rd SEAC meeting held on 21.9.2022 and decided to refer back to SEAC for the following reasons.

- To obtain the reasons for granting of mining plan which is less than 1 Ha (with total area under mining will be 0.13.7 Ha) with depth of 15.5 m
- A comprehensive report on the slope stability of quarry & safety of employees/ public considering blasting operation, loading and movement haulage trucks from the competent Authority as per the TNMMC Rules 1959.
- Feasibility of the mining operation with respect to the safety of employees/ public considering blasting operation, loading and movement haulage trucks may be examined.
- Width of the section tabulated above is less than 10 m.


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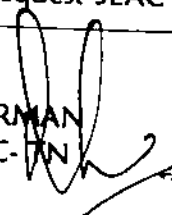

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Again, this proposal was placed for appraisal in this 322nd meeting of SEAC held on 19.10.2022. During the meeting the EIA Coordinator requested to postpone and reschedule the meeting. Hence, the proposal was not taken up for appraisal.

Based on the reply furnished by the PP, this proposal has again been placed in 356th SEAC meeting held on 17.3.2023. The PP has made the representation covering the above said points is as follows

Sl.No	Representation	Reply
1	To obtain the reason for granting of mining plan which is less than 1 Ha (With total area under mining will be 0.13.7 Ha) with depth of 15.5m	The total volume of land is 044.5 Ha, and all the surrounded lands have been under mining operations. Hence other occupation in the land not possible if we not carrying out the mining in the above land we will incur sever economy loss, being a small miner I can't able to bear the loss, kindly allow me to do the mining operation in my own Patta land
2	A comprehensive report on the slope stability of quarry & safety of employees / public considering blasting operation, loading and movement haulage trucks from the competent Authority as per the TNMMC Rules 1959	<p>In this proposed quarry lease area surrounded by some other quarries. Hence that proposed land was not applicable to any other purpose, there is no opportunity to improve our livelihoods.</p> <p>In this proposed mine lease area is having total extent of 0.44.5 Ha only and quantity of reserves are 10,660m³ of Rough stone and 864m³ Gravel (Revised quantity by SEAC) to be excavated.</p> <p>The proposed depth is only 15.5 meters only and hence we request SEAC</p>


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		and SEIAA to kindly exempt us from getting slope stability study as our proposed depth is less than 40 meters
3	Feasibility of the mining operation with respect to the safety of employees / public considering blasting operation, loading and movement haulage trucks may be examined	<p>(i) Every Mines manager, where appointed, of each mine should make and maintain arrangements for conferring daily with all other officials having charge of operations within his jurisdiction.</p> <p>(ii) Safety measures will be implemented as per Mines Act 1952, MMR 1961 AND Mines Rules 1955.</p> <p>(iii) Protective equipment like dust mask, ear-plugs/muffs, sand respirator (avoid silica dusts forms-Silicosis), reflector jackets, safety thick shoes, etc., as Personnel Productive Equipment (PPE) as per the circulars and amendments made for Mine Labour under the guidance of DGMS.</p> <p>(iv) Proper training and induction will be given by qualified and experienced safety officer to all employees about the safe and systematic quarrying operation.</p> <p>(v)The drillers and workers are sent for vocational training periodically to carry out the quarrying operations scientifically to safeguard the men</p>

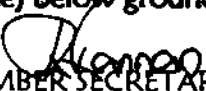

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		<p>machinery and mineral and to create awareness of conventional opencast quarrying operation.</p> <p>(vi) In the event of temporary closer, approaches will be fenced off and notice board displayed.</p> <p>As per SEAC recommendation, S.F. No: 5/12B has removed and In addition, Year wise Development and Production Reserves, in XY-AB section 93-88 bench also removed because of width of the bench is 5m. After removal of XY-AB section 93-88 bench, revised quantity of reserves will be given below,</p> <table border="1"> <thead> <tr> <th>Proposed Mining</th> <th>Existing Recoverable reserves m³</th> <th>Revised Recoverable reserves m³</th> </tr> </thead> <tbody> <tr> <td>Rough stone</td> <td>11,210</td> <td>10,660</td> </tr> <tr> <td>Gravel</td> <td>864</td> <td>864</td> </tr> </tbody> </table> <p>No change in depth. The actual depth will be 15.5m</p>	Proposed Mining	Existing Recoverable reserves m ³	Revised Recoverable reserves m ³	Rough stone	11,210	10,660	Gravel	864	864
Proposed Mining	Existing Recoverable reserves m ³	Revised Recoverable reserves m ³									
Rough stone	11,210	10,660									
Gravel	864	864									

Based on the presentation made and the documents furnished by the Project proponent, SEAC considering the safety aspects decided to recommend the proposal for the grant of Environmental Clearance for the restricted quantity of 10660 m³ of Rough stone and 864cu.m of Gravel for an ultimate pit depth of 15.5m (0.5m Gravel + 15m Rough Stone) below ground level for the five years and however, the annual peak production


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capacity not exceeding 2565 cu.m of rough stone & 864cu.m of Gravel, 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 furnish the action plan for realignment of benches before obtaining CTO from TNPCB.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain 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.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
7. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced


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ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

8. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without a prior permission obtained from the Director of Mines Safety, Chennai Region.
9. 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.
10. 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.
11. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
12. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
13. 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.
14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
15. 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.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
 17. 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.
 18. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the committed activities in Panchayat Union middle School, Pallathupatti Village as committed, before obtaining CTO from TNPCB.

Agenda No: 356-19

(File No: 9350/2022)

Proposed Rough Stone & gravel quarry Lease over an extent of 1.69.0 Ha at S.F.No. 64/1B (Part) & 64/2B (Part) in Kodavadi Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru.V.Harikrishnan – For Environmental Clearance (SIA/TN/MIN/279384/2022 dated. 23.06.2022

The proposal was placed in 356th meeting of SEAC held on 17.02.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:


1. The project proponent, **Thiru.V.Harikrishnan** has applied for Environmental Clearance for the Proposed Rough Stone & gravel quarry Lease over an extent of 1.69.0 Ha at S.F.No. 64/1B (Part) & 64/2B (Part) in Kodavadi Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

During the presentation, SEAC noted that from the KML, it is construed that a portion of the applied lease area has been quarried after 2018 without valid Environmental Clearance. Therefore, the SEAC decided that

1. The AD/Mines shall inspect the quarry site and provide his comments on the existing site condition and pit details.


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2. The PP shall enumerate the structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, etc.

Agenda No: 356-TA-1

(File No: 8276/2021)

Proposed Rough Stone quarry lease over an extent of 3.00.0 Ha at S.F.No. 167/1(Part-1) of Siruthamur Village, Uthiramerur Taluk, Kanchipuram District, Tamil Nadu by Tvl.M.S.Blue Stones - For Environmental Clearance. (SIA/TN/MIN/ 59831/2021 dated 29.03.2022)

The proposal was placed in this 356th Meeting of SEAC held on 17.02.2023. 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/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification,2006.
2. The ToR was issued vide Lr. No. SEIAA-TN/F.No.8276/SEAC/ToR-950/2021 Dated:30.04.2021.
3. Minutes of public hearing conducted on 27.01.2022.
4. The salient features of the proposed project as follows

Sl. No	Details of the Proposal	
1.	Name of the Owner/Firm	Tvl.M.S.Blue Stones Thiru.J.Mohan (Managing Partner) No.192, 1st Floor Ambattur Plots Red Hills Road Ambattur District - 600053
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough stone quarry
3.	S.F No. Of the quarry site with area break-up	167/1 (Part-1)
4.	Village in which situated	Siruthamur
5.	Taluk in which situated	Uthiramerur
6.	District in which situated	Kanchipuram


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7.	Extent of quarry (in ha.)	3.00.0 Ha	
8.	Period of quarrying proposed	5 years	
9.	Type of mining	Opencast Semi Mechanized Mining Method.	
10.	Production (Quantity in m3)	As per Approved Mining Plan	Restricted quantity as per ToR issued
		The production should not exceed 390414m ³ of Rough Stone, 24608m ³ of Topsoil with an ultimate depth of mining 22m (1m Topsoil + 21m Rough Stone) Below Ground level.	The production should not exceed 3,06,684 m ³ of Rough Stone, 24608 m ³ of Topsoil with an ultimate depth of mining 15m (1m Topsoil + 14m Rough Stone) Below Ground level.
11.	Annual peak Production (Quantity in m3)	62,986 cu.m of Rough Stone (3 rd Year) & 8988 cu.m of Topsoil (1 st Year).	
12.	Restricted Depth of quarrying for 5 years	15m (1m Topsoil + 14m Rough Stone) Below Ground level.	
13.	Ultimate Depth of quarrying	35m Below Ground level.	
14.	Depth of water table	58 m in summer to 55 m in rainy season	
15.	Latitude & Longitude of all corners of the quarry site	12°43'24"N to 12°43'32"N 79°51'33"E to 79°51'42"E	
16.	Top Sheet No.	57 P/13 & 14	
17.	Man Power requirement per day:	30 Employees	
18.	Precise area communication issued by the District Collector with date	Rc.No.581/Q3/2019 dt: 07.01.2020	
19.	Mining Plan approved by Assistant Director, Department of Geology and mining with date	Rc.No.581/Q3/2019 dt: 03.04.2020	
20.	500m cluster letter issued by Assistant Director, Department of Geology & Mining.	Rc.No.581/Q3/2019 dt: 03.04.2020	


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21.	VAO certificate regarding 300m radius cluster	Letter furnished and dated nil.
22.	Water requirement: 10. Drinking & Domestic Water (in KLD) 11. Dust suppression(in KLD) 12. Greenbelt (in KLD)	3.0 KLD 2.0 KLD 0.5 KLD 0.5 KLD
23.	Power requirement g. Domestic Purpose	TNEB
24.	Project Cost	Rs.5,70,70,000/-
25.	EMP cost	Capital cost: Rs. 23,09,000 / year Recurring cost: Rs. 20,16,000/- Year Total Rs. 111.6 Lakhs/5 year
26.	CER cost	Rs.15,00,000/- as accepted by the PP
27.	ToR issued	Lr. No. SEIAA-TN/F.No.8276/SEAC/ToR-950/2021 Dated:30.04.2021.
28.	Public hearing conducted on	27.01.2022.
29.	Final EIA report submitted on	30.03.2022.

1. Earlier, this proposal was placed in the 288th Meeting of SEAC held on 23.06.2022.

Based on the presentation and document furnished by the project proponent, SEAC noted that, the Karikili Bird Sanctuary is located at a distance of 8.4km South and hence the PP shall obtain NBWL clearance, vide, MoEF &CC Office Memorandum no. FC-11/119/2020-FC dated 17th May, 2022.

2. Further, the SEIAA has forwarded a representation received from the PP to SEAC for consideration. Hence, the proposal was again placed in 348th SEAC meeting held on 19.01.2023. SEAC noted that, the SEAC has already deliberated on this matter and decided to direct the PP to get prior clearance from NBWL before considering this case. The decision was taken in accordance with MOEF&CC, O.M No. FCC 11/119/2020-FC dated 17.5.2022. The Memorandum considered two scenarios for the projects falling near the Protected Areas (PA). Under scenario one, where ESZ has been notified around a specific PA, activities proposed to be located within notified ESZ shall be regulated and governed by the ESZ Notification concerned. Further, activities prohibited under ESZ Notification shall not be undertaken. Under scenario two – which is relevant for the present proposal – in respect of PAs for which ESZ has not been notified or ESZ Notification is at draft stage, activities

covered under the schedule of EIA notification 2006 and located within 10 km of PAs shall require consideration by the NBWL/ SCNBWL. In the present case, namely for Karikili sanctuary ESZ has not yet been notified. It is for this reason that PP has been directed to get clearance from NBWL as per the aforesaid OM.

During the meeting the PP made the following representations before the Committee, for reconsideration of the above decision of SEAC/SEIAA and considering his proposal without insisting on NBWL clearance.

1. Karikili Sanctuary has not been finally notified u/s 26A of Wild Life Act 1972, read with 1991 amendments to the Act, and so Karikili cannot be considered as a Sanctuary.
2. The boundary of Karikili Sanctuary cannot extend beyond the tank area (survey number 188), as processes u/s 19-26A have not been gone through and completed.
3. As per the reply given to the RTI query, the PCCF in his Ref No. WL5/15862/2022-7 dt. 12.01.2023 has furnished the following information.

Sl. No.	Question	Reply
1.	What is the Eco Sensitive Zone (in Kilometer) of karikili birds Sanctuary, Guindy National Park and Vedanthangal Birds Sanctuary	As per the Hon'ble Supreme Court of India order dated 03.06.2022 in IA No. 1000 of 2003, the eco Sensitive Zone for Karikili and Vedanthangal Birds Sanctuary boundaries is 1 Km from the Sanctuary boundary and as a special case the Eco sensitive Zone for Guindy National Park is 'Zero' meter.

SEAC carefully considered the above representations made by the PP and concluded that the above points were considered by SEAC before taking the decision. However, the PP requested that he may be granted further time to produce some additional documents. SEAC therefore decided to defer the reconsideration of the proposal till the PP submitted additional details.

Now, the PP has furnished the letter obtained from PCCF is as follows


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TAMIL NADU FOREST DEPARTMENT

From
Thiru. Srinivas R Reddy, I.F.S.,
Principal Chief Conservator of Forests
and Chief Wildlife Warden (FAC),
Forest Head Quarters Building,
Guindy-Velachery Main Road,
Near Kanikapuram Check Post,
Chennai - 600 032.

To
The Member Secretary,
SEIAA-TN,
Panagal Meathal,
Saidapet,
Chennai - 15.

Ref. No. WLS/3767/2023 dated 15-02-2023

Sir,

Sub: Eco Sensitive Zone - Zero Eco Sensitive Zone proposal submitted to Government of India - Approved by National Board for Wildlife - Applicability of the guidelines for sanctuaries - Consideration of Km Eco Sensitive Zone boundary for mining projects - Clarification - Regarding.

Ref: This office Ref. No. WL5/17723/2022 dated 26-10-2022

In continuation of this office reference cited, it is informed that the as per the G.O. (Ms.) No. 332, Environment and Forests (FR.5) Department dated 23-05-1989, the Karikili Birds Sanctuary has been notified under section 18 of Wildlife (Protection) Act, 1972. The total extent is 151.26 acre or 61.21 Ha and belt of 5 Km width around in S.F. No. 188. Further it is informed that the final notification of Karikili Birds Sanctuary under section 26(A)(1) of Wildlife (Protection) Act, 1972 is under preparation by the District Collector.

2) Further the Eco Sensitive Zone proposal for Karikili Birds Sanctuary has been sent to Government of India through State Government. The proposed extent is 'zero meter' Based on the above the Government of India, Ministry of Environment Forests and Climate Change, New Delhi has stated that the proposal has been considered in the Ministry and conveyed that in accordance with the decision of the National Board for Wildlife in its meeting held on 17-03-2005 and based on the proposal submitted by the State of Tamil Nadu, 'zero meter' Eco Sensitive Zone has been agreed vide letter F. No. 10-82/2014 WL dated 02-01-2015. Therefore separate Eco Sensitive Zone notification is not required.

Meanwhile Hon'ble Supreme Court in its Order dated 03.06.2022 in IA No. 1000 of 2003 states as below:-

*44. We accordingly direct:


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- b) In the event, however, the ESZ is already prescribed as per law that goes beyond one kilometer buffer zone, the wider margin as ESZ shall prevail. If such wider buffer zone beyond one kilometer is proposed under any statutory instrument for a particular national park or wildlife sanctuary awaiting final decision in that regard, then till such final decision is taken, the ESZ covering the area beyond one kilometer as proposed shall be maintained.
- c) The Principal Chief Conservator of Forests as also the Home Secretary of each State and Union Territory shall remain responsible for proper compliance of the said Guidelines as regards nature of use within the ESZ of all national parks and sanctuaries within a particular State or Union Territory.
- h) In respect of sanctuaries or national parks for which the proposal of a State or Union Territory has not been given, the 10 kilometers buffer zone as ESZ, as indicated in the order passed by this Court on 4th December 2006 in the case of Goo Foundation (supra) and also contained in the Guidelines of 9th February 2011 shall be implemented. Within that area, the entire set of restrictions concerning an ESZ shall operate till a final decision in that regard is arrived at."

Therefore as clarified in Para 2 it is informed that the Eco Sensitive Zone of Karikili Birds Sanctuary may be taken to 6 Kms from the Tank area. Beyond 6 Kms from the Tank, there is no restriction for any non forestry activities and also the question of default 10 Kms Eco Sensitive Zone does not arise.

This is for information.

Yours faithfully,

U. P. L. 15.2.2023
for Principal Chief Conservator of Forests
and Chief Wildlife Warden

✓ Copy to the Chairman, SEAC, Chennai for information.

Copy to the Chairman, SEIAA-TN, Chennai for information.

Copy to Thiru. V. Sekar, Chennai and 4 others.

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15/02/23

Now, the proposal was placed in this 356th Meeting of SEAC held on 17.02.2023. Based on the presentation and documents furnished by the project proponent, SEAC noted the following

- SEAC during its meeting has asked PP to obtain prior SCNBWL clearance for the project located within 10 km radial distance of Karikili Bird Sanctuary (KBS). The

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[Signature]

Eco Sensitive Zone around the sanctuary is yet to be notified by GOI. The PP has represented for reconsideration and the proposal has been taken up in 356 SEAC meeting.

- Prior SCNBWL is required as per the following GOI OM's and directions issued in this regard:- (a) GOI letter No. 10-83/2014 WL dated 02.07.2018, (b) GOI OM dated 17.05.2022, (c) GOI Ref F No. 6-30/2019 WL dated 06.05.2022, (d) GOI Ref F No. 6-30/2019 WL dated 21.07.2022, (e) GOI Ref F No. 11/20/2018 ESZ dated 19.06.2022
- The above GOI references mention among others, the necessity and applicability of SCNBWL, availability of ESZ, notified ESZs or not notified ESZs etc.
- Govt of TN have submitted "Zero Meter" ESZ proposals to GOI for KBS and Govt of India have also agreed. However, notification under E.P. Act has not been issued yet.
- The PP during appraisal in 356 SEAC, has produced two letters issued by PCCF & CWLW. The PCCF & CWLW in his ref No. WL5/17723/2022 dated 26.10.2022 and WL5/1767/2023 dated 15.02.2023, has opined that ESZ notification is not required since GOI have already agreed for "Zero Meter" and fixed ESZ at 06 km distance from tank. But no notifications under E.P. Act either for "Zero Meter" or now decided "06 km from Tank" are made available to the committee.

The Committee noted that the PCCF&CWLW has categorically stated that for Karikili Birds Sanctuary, zero-meter eco sensitive zone has been approved by the Government of India and therefore, separate Eco Sensitive Zone notification is not required. The Committee, after detailed deliberations, decided to accept the clarification issued by the PCCF & CWLW, who is the statutory authority under the Wildlife Protection Act, and concluded that the proposal does not require NBWL clearance.

The SEAC. after having considered the safety aspects, the revised quantity is as follows


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BENCH PARAMETERS							
YEAR	AS PER APPROVED MINE PLAN			AS PER APPROVED TOR			REVISED BENCH PARAMETER AFTER SEAC MEETING
	Height IN M	Bench Width IN M	Depth IN M	Height IN M	Bench Width IN M	Depth IN M	
1-5	7	7	22	7	7	15	
6-10			28			35	
TOTAL		-	50			50	

REVISED PRODUCTION DETAILS

YEAR	REVISED YEARLY PRODUCTION (m ³)					
	AS PER APPROVED MINING PLAN		AS PER APPROVED TOR RESERVES		REVISED AS PER SEAC MEETING	
	ROUGHSTONE (m ³)	TOP SOIL (m ³)	ROUGHSTONE (m ³)	TOP SOIL (m ³)	ROUGHSTONE (m ³)	TOP SOIL (m ³)
I	61586	8988	61586	8988	61480	12619
II	62328	8988	62328	8988	62460	12089
III	62986	6632	62986	6632	62660	
IV	61180	-	61180	-	61928	
V	61334	-	58604	-	48104	
Year VI to X	3,07,818	-	3,10,548	-		
Total	6,17,232	24,608	6,17,232	24,608		

Based on the presentation made and the documents furnished by the Project proponent, decided to recommend the proposal for the grant of Environmental Clearance for restricted quantity of 296532 m³ of Rough Stone & 24608 m³ of Topsoil with not exceeding the annual peak production of 62,560 cu.m of Rough Stone & 12519 cu.m of Topsoil with maintaining a ultimate pit depth of 15m Below Ground level, 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


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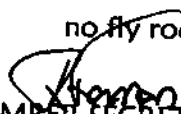

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a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.

2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. The proponent shall construct 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/map showing the same before obtaining the CTO from TNPCB.
5. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
8. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) considering the existing working conditions of 13 m highwall bench by maintaining appropriate safe width for the same and incorporating the haul road with proper gradient, before obtaining CTO from TNPCB.
9. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall, within the commencement of four years of quarrying operation, 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.

10. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures situated within 1 km from the boundary of the quarry such as blast-induced ground/air vibrations and fly rock', by involving a 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.
11. As a part of EC Compliance, the PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
12. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
13. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
14. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also


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- ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
15. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
 16. 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.
 17. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
 18. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval (day time only) with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
 19. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
 20. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

21. 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.
22. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
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.
24. As accepted by the Project proponent the CER cost is Rs. 15.0 lakhs and the amount shall be spent for the Anambakkam High School as committed, before obtaining CTO from TNPCB.

Agenda No: 356 – TA-2

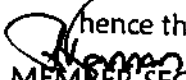
(File No: 8278/2021)

Proposed Rough Stone quarry lease over an extent of 2.15.30 Ha at S.F.No. 320/5 of Siruthamur Village, Uthiramerur Taluk, Kanchipuram District, Tamil Nadu by Thiru . K.Prabakaran- for Environmental Clearance. (SIA/TN/MIN/ 264330/2022 dated 29.03.2022)

This proposal was placed in this 356th Meeting of SEAC held on 17.02.2023. 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. Prabakaran has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 2.15.30Ha at S.F.No. 320/5 of Siruthamur Village, Uthiramerur Taluk, Kanchipuram District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification,2006.
3. Earlier the proposal was placed in 288th SEAC meeting held on 23.06.2022. Based on the presentation and document furnished by the project proponent, SEAC noted that, the Karikili Bird Sanctuary is located at a distance of 8.4km South and hence the PP shall obtain NBWL clearance, vide, MoEF &CC Office Memorandum


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no. FC-11/119/2020-FC dated 17th May, 2022. On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.

4. Subsequently, SEIAA has forwarded representation received from the PP to SEAC for consideration. Hence, the proposal was again placed in 348th SEAC meeting held on 19.01.2023.

SEAC noted that, the SEAC has already deliberated on this matter and decided to direct the PP to get prior clearance from NBWL before considering this case. The decision was taken in accordance with MOEF&CC, O.M No. FCC 11/119/2020-FC dated 17.5.2022. The Memorandum considered two scenarios for the projects falling near the Protected Areas (PA). Under scenario one, where ESZ has been notified around a specific PA, activities proposed to be located within notified ESZ shall be regulated and governed by the ESZ Notification concerned. Further, activities prohibited under ESZ Notification shall not be undertaken. Under the scenario two – which is relevant for the present proposal - project activities outside PA, wherein ESZ is not notified or ESZ Notification is at draft stage, activities covered under the schedule of EIA notification 2006 and located within 10 km of PAs shall require consideration by the NBWL/ SCNBWL. In the present case, namely Karikili sanctuary, ESZ has not yet been notified. It is for this reason that PP has been directed to get clearance from NBWL as per the aforesaid OM.

Now, the PP has made the following representations before the Committee, for reconsideration of the above decision of SEAC/SEIAA and considering his proposal without insisting on NBWL clearance.

1. Karikili Sanctuary has not been finally notified u/s 26A of Wild Life Act 1972, read with 1991 amendments to the Act, and so Karikili cannot be considered as a Sanctuary.
2. The boundary of Karikili Sanctuary cannot extend beyond the tank area (survey number 188), as processes u/s 19-26A have not been gone through and completed.
3. As per the reply given to the RTI query, the PCCF in his Ref No. WL5/15862/2022-7 dt. 12.01.2023 has furnished the following information.


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S.No	Question	Reply
1.	What is the Eco Sensitive Zone (in Kilometer) of karikili birds Sanctuary, Guindy National Park and Vedanthangal Birds Sanctuary	As per the Hon'ble Supreme Court of India order dated 03.06.2022 in IA No. 1000 of 2003, the eco Sensitive Zone for Karikili and Vedanthangal Birds Sanctuary boundaries is 1 Km from the Sanctuary boundary and as a special case the Eco sensitive Zone for Guindy National Park is 'Zero' meter.

SEAC carefully considered the above representations made by the PP and concluded that the above points were considered by SEAC before taking the decision. However, the PP requested that he may be granted further time to produce some additional documents. SEAC therefore decided to defer the reconsideration of the proposal till the PP submitted additional details.

S.No	Details of the proposal	Date of filing
1	Name and Address	: Thiru. K. Prabakaran S/o. N. Kanniyappan No.43, Old State Bank Colony Road West Tambaram Chennai - 600045
2	Type of quarrying	: Rough stone
3	S.F No. Of the quarry site	: 320/5
4	Village in which situated	: Siruthamur
5	Taluk in which situated	: Uthiramerur
6	District in which situated	: Kancheepuram
7	Extent of quarry (in ha.)	: 2.15.30 Ha
8	Period of quarrying proposed	: 5 years


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9	Type of mining	:	Opencast semi Mechanized Mining Method
10	Production (Quantity in m ³)	:	Rough stone: 2,37,284m ³
11	Latitude & Longitude of all corners of the quarry site	:	12°43'8.55"N to 12°43'14.57"N 79°51'0.64"E to 79°51'7.08"E
12	Topo Sheet No.	:	57 P/14
13	Man Power requirement per day:		30 Employees
14	Precise area communication approved by the District Collector with date	:	Na.Ka.No.583/Q3/2019 dated: 07.01.2020
15	Mining Plan approved by the Assistant Director of Geology and Mining with date	:	Rc.No.583/Q3/2019 dt: 03.04.2020.
16	Water requirement: 3. Drinking & Utilized water 4. Dust suppression 5. Green Belt	:	3.0 KLD 1.0 KLD 1.5 KLD 0.5 KLD
17	Power requirement: Domestic Purpose		TNEB
18	Depth of quarrying	:	20m (2m topsoil +18m rough stone) BGL
19	Depth of water table	:	55m in rainy season & 65 in summer
20	Project Cost (excluding EMP cost)	:	Rs.5,38,25,000/-
21	EMP cost	:	Capital cost: Rs. 1998500/ year Recurring cost: Rs. 1845250/- Year Total Rs. 102.15Lakhs/5 year
22	CER cost		Rs. 15 Lakhs
23	AD mines 500m cluster letter		Rc.No.583/Q3/2019 dt: 03.04.2020
24	VAO certificate regarding 300m radius habitation		Letter Dated: 01.06.2022

Now, the PP has furnished the letter obtained from PCCF is as follows

TAMIL NADU FOREST DEPARTMENT

From
Thiru. Srinivas R Reddy, I.F.S.,
Principal Chief Conservator of Forests
and Chief Wildlife Warden (FAC),
Forest Head Quarters Building,
Gulindy-Velachery Main Road,
Near Kanakapuram Check Post,
Chennai - 600 032.

To
The Member Secretary,
SEIAA-TN,
Ponagal Maligal,
Saidapet,
Chennai - 15.

Ref. No. WLS/8767/2023 dated 15-02-2023

Sir,
Sub: Eco Sensitive Zone - Zero Eco Sensitive Zone proposal submitted to Government of India - Approved by National Board for Wildlife - Applicability of the guidelines for sanctuaries - Consideration of Km Eco Sensitive Zone boundary for mining projects - Clarification - Regarding.

Ref: This office Ref. No. WLS/17723/2022 dated 26-10-2022

In continuation of this office reference cited, it is informed that the as per the G.O. (Ms.) No. 332, Environment and Forests (FR.5) Department dated 23-05-1989, the Karikili Birds Sanctuary has been notified under section 18 of Wildlife (Protection) Act, 1972. The total extent is 151.26 acre or 61.71 Ha and belt of 5 Km width around in S.P. No. 188. Further it is informed that the final notification of Karikili Birds Sanctuary under section 26(A)(1) of Wildlife (Protection) Act, 1972 is under preparation by the District Collector.

2) Further the Eco Sensitive Zone proposal for Karikili Birds Sanctuary has been sent to Government of India through State Government. The proposed extent is 'zero meter'. Based on the above the Government of India, Ministry of Environment Forests and Climate Change, New Delhi has stated that the proposal has been considered in the Ministry and conveyed that in accordance with the decision of the National Board for Wildlife in its meeting held on 17-03-2005 and based on the proposal submitted by the State of Tamil Nadu, 'zero meter' Eco Sensitive Zone has been agreed vide letter F. No. 10-82/2014 WL dated 02-01-2015. Therefore separate Eco Sensitive Zone notification is not required.

Meanwhile Hon'ble Supreme Court in its Order dated 03.06.2022 in IA No. 1000 of 2003 states as below:-

"4. We accordingly direct:


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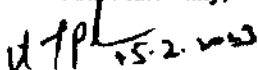

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SEAC -TN

- b) *In the event, however, the ESZ is already prescribed as per law that goes beyond one kilometer buffer zone, the wider margin as ESZ shall prevail. If such wider buffer zone beyond one kilometer is proposed under any statutory instrument for a particular national park or wildlife sanctuary awaiting final decision in that regard, then till such final decision is taken, the ESZ covering the area beyond one kilometer as proposed shall be maintained.*
- c) *The Principal Chief Conservator of Forests as also the Home Secretary of each State and Union Territory shall remain responsible for proper compliance of the said Guidelines as regards nature of use within the ESZ of all national parks and sanctuaries within a particular State or Union Territory.*
- h) *In respect of sanctuaries or national parks for which the proposal of a State or Union Territory has not been given, the 10 kilometers buffer zone as ESZ, as indicated in the order passed by this Court on 4th December 2006 in the case of Goa Foundation (supra) and also contained in the Guidelines of 9th February 2011 shall be implemented. Within that area, the entire set of restrictions concerning an ESZ shall operate till a final decision in that regard is arrived at."*

Therefore as clarified in Para 2 it is informed that the Eco Sensitive Zone of Karikili Birds Sanctuary may be taken to 6 Kms from the Tank area. Beyond 6 Kms from the Tank, there is no restriction for any non forestry activities and also the question of default 10 Kms Eco Sensitive Zone does not arise.

This is for Information.

Yours faithfully,


for Principal Chief Conservator of Forests
and Chief Wildlife Warden

✓ Copy to the Chairman, SEAC, Chennai for information.

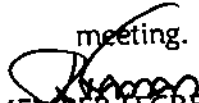
Copy to the Chairman, SEIAA-TN, Chennai for information.

Copy to Thiru. V. Sekar, Chennai and 4 others.


15/02/23

Based on the presentation and documents furnished by the project proponent, SEAC noted the following

- SEAC during its meeting has asked PP to obtain prior SCNBWL clearance for the project located within 10 km radial distance of Karikili Bird Sanctuary (KBS). The Eco Sensitive Zone around the sanctuary is yet to be notified by GOI. The PP has represented for reconsideration and the proposal has been taken up in 356 SEAC meeting.



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- Prior SCNBWL is required as per the following GOI OMs and directions issued in this regard:- (a) GOI letter No. 10-83/2014 WL dated 02.07.2018, (b) GOI OM dated 17.05.2022, (c) GOI Ref F No. 6-30/2019 WL dated 06.05.2022, (d) GOI Ref F No. 6-30/2019 WL dated 21.07.2022, (e) GOI Ref F No. 11/20/2018 ESZ dated 19.06.2022
- The above GOI references mention among others, the necessity and applicability of SCNBWL, availability of ESZ, notified ESZs or not notified ESZs etc.
- Govt of TN have submitted "Zero Meter" ESZ proposals to GOI for KBS and Govt of India have also agreed. However, notification under E.P. Act has not been issued yet.
- The PP during appraisal in 356 SEAC, has produced two letters issued by PCCF & CWLW. The PCCF & CWLW in his ref No. WL5/17723/2022 dated 26.10.2022 and WL5/1767/2023 dated 15.02.2023, has opined that ESZ notification is not required since GOI have already agreed for "Zero Meter" and fixed ESZ at 06 km distance from tank. But no notifications under E.P. Act either for "Zero Meter" or now decided "06 km from Tank" are made available to the committee.

The Committee noted that the PCCF&CWLW has categorically stated that for Karikili Birds Sanctuary, zero-meter eco sensitive zone has been approved by the Government of India and therefore, separate Eco Sensitive Zone notification is not required. The Committee, after detailed deliberations, decided to accept the clarification issued by the PCCF & CWLW, who is the statutory authority under the Wildlife Protection Act, and concluded that the proposal does not require NBWL clearance.


The SEAC, after having considered the safety aspects, decided to recommend the proposal for the grant of Environmental Clearance for restricted quantity of 2,37,384 m³ of Rough Stone but however not exceeding the annual peak production of 51,264 cu.m of Rough Stone with maintaining the ultimate depth of 20m Below Ground level, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier **vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.**
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. The proponent shall construct 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/map showing the same before obtaining the CTO from TNPCB.
5. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
8. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) considering the existing working conditions of 13 m highwall bench by maintaining appropriate safe width for the same and incorporating the haul


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road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.

9. However, 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) within the commencement of four years of quarrying 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.
10. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures situated within 1 km from the boundary of the quarry such as blast-induced ground/air vibrations and fly rock', by involving a 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.
11. As a part of EC Compliance, the PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
12. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
13. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.


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14. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
15. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
16. 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.
17. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
18. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
19. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
20. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras

-Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

21. 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.
22. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
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.
24. As accepted by the Project proponent the CER cost is Rs. 15.0 lakhs and the amount shall be spent for the Adoption of Siruthamur Primary school as committed, before obtaining CTO from TNPCB.

Agenda No: 356-TA3

(File No: 8274/2021)

Proposed Rough Stone quarry lease over an extent of 3.00.0 Ha at S.F.No. 167/1(Part-2) of Siruthamur Village, Uthiramerur Taluk, Kanchipuram District, Tamil Nadu by Thiru. V.Sekar- For Environmental Clearance. (SIA/TN/MIN/ 59833/2021 dated 29.03.2022).

Earlier, this proposal was placed in this 288th Meeting of SEAC held on 23.06.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. V.Sekar has applied has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 3.00.0 Ha at S.F.No. 167/1(Part-2) of Siruthamur Village, Uthiramerur Taluk, Kanchipuram District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification,2006.


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Sl. No.	DETAILS OF THE QUARRY	Particulars
1	Name of the Owner/Firm	: Thiru. V. Sekar, S/o. Vadivel, No.28 & 29, 51 Dream Homes, Dr.K.V.K. Nagar, Selaiyur, Chennai - 600 073.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone
3	S.F No. of the quarry site with area break-up	: 167/1 (Part-2)
4	Village in which situated	: Siruthamur
5	Taluk in which situated	: Uthiramerur
6	District in which situated	: Kanchipuram
7	Extent of quarry (in ha.)	: 3.00.0 Ha
8	Period of quarrying proposed	: 5 years
9	Type of mining	: Opencast Semi Mechanized Mining
10	Production (Quantity in m ³)	: 3,29,770 m ³ of Rough Stone 25,125 m ³ of Topsoil
11	Latitude & Longitude of all corners of the quarry site	: 12°43'30"N to 12°43'37"N 79°51'34"E to 79°51'43"E
12	Topo Sheet No.	: 57 P/14
13	Man Power requirement per day:	: 30 Nos
14	Precise area communication approved by Assistant Director, Department of Geology and Mining with date	: Na.Ka.No.582/Q3/2019 dated:27.12.2019
15	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.582/Q3/2019 dated:03.04.2020
16	Water requirement: 6. Drinking water & domestic purposes (in KLD) 7. Dust Suppression (in KLD) 8. Green Belt (in KLD)	: 3.0 KLD 1.0 KLD 1.5 KLD 0.5 KLD
17	Power requirement h. Domestic Purpose	: TNEB
18	Depth of quarrying	: 22m bgl
19	Depth of water table	: 58m in summer and 55m in rainy season

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SEAC - TN

20	Whether any habitation within 300m distance	:	No
21	Project Cost (including EMP cost)	:	Rs.5,70,70,000/-
22	EMP cost	:	Capital cost: Rs. 2317000 / year Recurring cost: Rs. 2067300/ Year Total Rs. 114.17Lakhs/5 year
23	CER cost	:	Rs.15,00,000/-
24	Assistant Director, mines 500m cluster letter	:	Rc.No.582/Q3/2019 dated:03.04.2020
25	VAO certificate regarding 300m radius cluster	:	Letter dated 18.12.2020

Based on the presentation and document furnished by the project proponent, SEAC noted that, the Karikili Bird Sanctuary is located at a distance of 8.4km South and hence the PP shall obtain NBWL clearance, vide, MoEF &CC Office Memorandum no. FC-11/119/2020-FC dated 17th May, 2022 and on receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.

Subsequently, the proposal was placed in the 533rd Authority meeting held on 18.07.2022. The Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 23.06.2022.

Now SEIAA has forwarded a representation received from the PP to SEAC for consideration. Hence, the proposal was again placed in 348th SEAC meeting held on 19.01.2023.

SEAC noted that, the SEAC has already deliberated on this matter and decided to direct the PP to get prior clearance from NBWL before considering this case. The decision was taken in accordance with MOEF&CC, O.M No. FCC 11/119/2020-FC dated 17.5.2022. The Memorandum considered two scenarios for the projects falling near the Protected Areas (PA). Under scenario one, where ESZ has been notified around a specific PA, activities proposed to be located within notified ESZ shall be regulated and governed by the ESZ Notification concerned. Further, activities prohibited under ESZ Notification shall not be undertaken. Under scenario two – which is relevant for the present proposal – in respect of Pas for which ESZ has not been notified or ESZ Notification is at draft stage, activities covered under the schedule of EIA notification 2006 and located within 10 km of PAs shall require consideration by the NBWL/ SCNBWL. In the present

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case, namely for Karikili sanctuary ESZ has not yet been notified. It is for this reason that PP has been directed to get clearance from NBWL as per the aforesaid OM.

During the meeting the PP made the following representations before the Committee, for reconsideration of the above decision of SEAC/SEIAA and considering his proposal without insisting on NBWL clearance.

1. Karikili Sanctuary has not been finally notified u/s 26A of Wild Life Act 1972, read with 1991 amendments to the Act, and so Karikili cannot be considered as a Sanctuary.
2. The boundary of Karikili Sanctuary cannot extend beyond the tank area (survey number 188), as processes u/s 19-26A have not been gone through and completed.
3. As per the reply given to the RTI query, the PCCF in his Ref No. WL5/15862/2022-7 dt. 12.01.2023 has furnished the following information.

Sno.	Question	Reply
1.	What is the Eco Sensitive Zone (in Kilometer) of karikili birds Sanctuary, Guindy National Park and Vedanthangal Birds Sanctuary	As per the Hon'ble Supreme Court of India order dated 03.06.2022 in IA No. 1000 of 2003, the eco Sensitive Zone for Karikili and Vedanthangal Birds Sanctuary boundaries is 1 Km from the Sanctuary boundary and as a special case the Eco sensitive Zone for Guindy National Park is 'Zero' meter.

SEAC carefully considered the above representations made by the PP and concluded that the above points were considered by SEAC before taking the decision. However, the PP requested that he may be granted further time to produce some additional documents. SEAC therefore decided to defer the reconsideration of the proposal till the PP submitted additional details.

Now, the PP has furnished the letter obtained from PCCF is as follows


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SEAC- TN

TAMIL NADU FOREST DEPARTMENT

From
Thiru. Srinivas R Reddy, I.F.S.,
Principal Chief Conservator of Forests
and Chief Wildlife Warden (FAC),
Forest Head Quarters Building,
Gandhi-Velachery Main Road,
Near Kanikapuram Check Post,
Chennai - 600 032.

To
The Member Secretary,
SEIAA-TN,
Panagal Malligai,
Saidapet,
Chennai - 15.

Ref. No. WLS/3767/2023 dated 15-02-2023

Sir,

Sub: Eco Sensitive Zone - Zero Eco Sensitive Zone proposal submitted to Government of India - Approved by National Board for Wildlife - Applicability of the guidelines for sanctuaries - Consideration of 0 Km Eco Sensitive Zone boundary for mining projects - Clarification - Regarding.

Ref: This office Ref. No. WLS/17723/2022 dated 26-10-2022

In continuation of this office reference cited, it is informed that as per the G.O. (Ms.) No. 332, Environment and Forests (FR5) Department dated 23-05-1989, the Karikili Birds Sanctuary has been notified under section 18 of Wildlife (Protection) Act, 1972. The total extent is 151.26 acre or 61.21 Ha and belt of 5 Km width around in S.F. No. 188. Further it is informed that the final notification of Karikili Birds Sanctuary under section 26(A)(1) of Wildlife (Protection) Act, 1972 is under preparation by the District Collector.

2) Further the Eco Sensitive Zone proposal for Karikili Birds Sanctuary has been sent to Government of India through State Government. The proposed extent is 'zero meter'. Based on the above the Government of India, Ministry of Environment Forests and Climate Change, New Delhi has stated that the proposal has been considered in the Ministry and conveyed that in accordance with the decision of the National Board for Wildlife in its meeting held on 17-03-2005 and based on the proposal submitted by the State of Tamil Nadu, 'zero meter' Eco Sensitive Zone has been agreed vide letter P. No. 10-82/2014 WL dated 02-01-2015. Therefore separate Eco Sensitive Zone notification is not required.

Meanwhile Hon'ble Supreme Court in its Order dated 03.06.2022 in IA No. 1000 of 2003 states as below:-

"44. We accordingly direct:


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- b) In the event, however, the ESZ is already prescribed as per law that goes beyond one kilometer buffer zone, the wider margin as ESZ shall prevail. If such wider buffer zone beyond one kilometer is proposed under any statutory instrument for a particular national park or wildlife sanctuary awaiting final decision in that regard, then till such final decision is taken, the ESZ covering the area beyond one kilometer as proposed shall be maintained.
- c) The Principal Chief Conservator of Forests as also the Home Secretary of each State and Union Territory shall remain responsible for proper compliance of the said Guidelines as regards nature of use within the ESZ of all national parks and sanctuaries within a particular State or Union Territory.
- h) In respect of sanctuaries or national parks for which the proposal of a State or Union Territory has not been given, the 10 kilometers buffer zone as ESZ, as indicated in the order passed by this Court on 4th December 2006 in the case of Goa Foundation (supra) and also contained in the Guidelines of 9th February 2011 shall be implemented. Within that area, the entire set of restrictions concerning an ESZ shall operate till a final decision in that regard is arrived at."

Therefore as clarified in Para 2 it is informed that the Eco Sensitive Zone of Karikili Birds Sanctuary may be taken to 6 Kms from the Tank area. Beyond 6 Kms from the Tank, there is no restriction for any non forestry activities and also the question of default 10 Kms Eco Sensitive Zone does not arise.

This is for information.

Yours faithfully,

U.P.L. S. 2. 2023
for Principal Chief Conservator of Forests
and Chief Wildlife Warden

✓ Copy to the Chairman, SEAC, Chennai for information.

Copy to the Chairman, SEIAA-TN, Chennai for information.

Copy to Thiru. V. Sekar, Chennai and 4 others.

B
15/02/23

Now, the proposal was placed in this 356th Meeting of SEAC held on 17.02.2023. Based on the presentation and documents furnished by the project proponent, SEAC noted the following

- SEAC during its meeting has asked PP to obtain prior SCNBWL clearance for the project located within 10 km radial distance of Karikili Bird Sanctuary (KBS). The Eco Sensitive Zone around the sanctuary is yet to be notified by GOI. The PP has represented for reconsideration and the proposal has been taken up in 356 SEAC meeting.

[Signature]
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[Signature]
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- Prior SCNBWL is required as per the following GOI OMs and directions issued in this regard:- (a) GOI letter No. 10-83/2014 WL dated 02.07.2018, (b) GOI OM dated 17.05.2022, (c) GOI Ref F No. 6-30/2019 WL dated 06.05.2022, (d) GOI Ref F No. 6-30/2019 WL dated 21.07.2022, (e) GOI Ref F No. 11/20/2018 ESZ dated 19.06.2022
- The above GOI references mention among others, the necessity and applicability of SCNBWL, availability of ESZ, notified ESZs or not notified ESZs etc.
- Govt of TN have submitted "Zero Meter" ESZ proposals to GOI for KBS and Govt of India have also agreed. However, notification under E.P. Act has not been issued yet.
- The PP during appraisal in 356 SEAC, has produced two letters issued by PCCF & CWLW. The PCCF & CWLW in his ref No. WL5/17723/2022 dated 26.10.2022 and WL5/1767/2023 dated 15.02.2023, has opined that ESZ notification is not required since GOI have already agreed for "Zero Meter" and fixed ESZ at 06 km distance from tank. But no notifications under E.P. Act either for "Zero Meter" or now decided "06 km from Tank" are made available to the committee.

The Committee noted that the PCCF&CWLW has categorically stated that for Karikili Birds Sanctuary, zero-meter eco sensitive zone has been approved by the Government of India and therefore, separate Eco Sensitive Zone notification is not required. The Committee, after detailed deliberations, decided to accept the clarification issued by the PCCF & CWLW, who is the statutory authority under the Wildlife Protection Act, and concluded that the proposal does not require NBWL clearance.

The SEAC. after having considered the safety aspects, the revised quantity is as follows


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BENCH PARAMETERS							
YEAR	AS PER APPROVED MINE PLAN			AS PER APPROVED TOR			REVISED BENCH PARAMETER AFTER SEAC MEETING
	Height IN M	Bench Width IN M	Depth IN M	Height IN M	Bench Width IN M	Depth IN M	
1-5	7	7	22	7	7	22	
6-10			28			28	
TOTAL		-	80			80	


PRODUCTION DETAILS

YEAR	YEARLY PRODUCTION (m ³)					
	AS PER APPROVED MINING PLAN		AS PER APPROVED TOR RESERVES		REVISED AS PER SEAC MEETING	
	ROUGHSTONE (m ³)	TOP SOIL (m ³)	ROUGHSTONE (m ³)	TOP SOIL (m ³)	ROUGHSTONE (m ³)	TOP SOIL (m ³)
I	65436	9545	65436	9545	66790	13388
II	66150	9530	66150	9530	66850	11737
III	65646	6050	65646	6050	66960	
IV	65688	-	65688	-	66710	
V	66850	-	66850	-	66460	
Year VI to X	3,29,280	-	3,29,280	-		
Total	6,89,060	25,125	6,89,060	25,125		

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend proposal for issuance of EC with the quantity of 329770 m³ of Rough & 25125 m³ of gravel for the period of 5 years and however not exceeding the annual peak production of 66850 cu.m of Rough Stone & gravel – 9545 Cu.m with maintaining the ultimate depth of 22m Below Ground level, 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 mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. The proponent shall construct 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/map showing the same before obtaining the CTO from TNPCB.
5. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
8. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) considering the existing working conditions of 13 m highwall bench by maintaining appropriate safe width for the same and incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
9. However, 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) within the commencement of two years of quarrying operation whichever is earlier, by involving any of the reputed Research and Academic Institution


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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.

10. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures situated within 1 km from the boundary of the quarry such as blast-induced ground/air vibrations and fly rock', by involving a 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.
11. As a part of EC Compliance, the PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
12. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
13. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
14. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also

ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

15. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
16. 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.
17. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
18. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
19. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
20. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
21. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be


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diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

22.The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.

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.

24. As accepted by the Project proponent the CER cost is Rs. 15.0 lakhs and the amount shall be spent for the Adoption of Arunkundram Primary school

25.committed, before obtaining CTO from TNPCB.

Agenda No: 356 – TA-4.

(File No: 8275/2021)

Proposed Rough Stone quarry lease over an extent of 4.95.0 Ha at S.F.No. 338/1(Part-1) of Siruthamur Village, Uthiramerur Taluk, Kanchipuram District, Tamil Nadu by Thiru. D.Arunkumar - for Environmental Clearance. (SIA/TN/MIN/ 60168/2021 dated 29.03.2022)

Earlier, this proposal was placed in this 288th Meeting of SEAC held on 23.06.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. D.Arunkumar has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 4.95.0 Ha at S.F.No. 338/1(Part-1) of Siruthamur Village, Uthiramerur Taluk, Kanchipuram District, Tamil Nadu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification,2006.

Sl. No.	Details of the proposal	Date of submission
1	Name of the Owner/Firm	: Thiru.D.Arunkumar, No.30/31, Thirumalai Nagar, Hasthinapuram, Kanchipuram District.


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2	Type of quarrying (Rough Stone/Sand/Granite)	: Rough stone
3	S.F No. Of the quarry site with area break-up	: 338/1 (Part-1)
4	Village in which situated	: Siruthumur
5	Taluk in which situated	: Uthiramerur
6	District in which situated	: Kanchipuram
7	Extent of quarry (in ha.)	: 4.95.0ha
8	Latitude & Longitude of all corners of the quarry site	: 12°42'55.07"N to 12°43'07.84"N 79°50'56.27"E to 79°51'08.58"E
9	Topo Sheet No.	: 57 P/14
10	Type of mining	Opencast Semi-Mechanized Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m ³)	: 587051 cu.m of Rough stone
13	Depth of quarrying	: 47m below ground level
14	Depth of water table	: 68-57m
15	Man Power requirement per day:	29 Nos.
16	Source of Water Requirement	water vendors
17	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	: 3.0 KLD 2.0 kLD 1.0 kLD
18	Power requirement	TNEB
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the District Collector with date	: Na.Ka.No.584/Q3/2019 dt: 07.01.2020
21	Mining Plan approved by the Assistant Director of Geology and Mining with date	: Rc.No.584/Q3/2019 dt: 03.04.2020
22	AD mines 500m cluster letter	Rc.No.584/Q3/2019 dt: 03.04.2020
23	VAO certificate regarding 300m radius cluster	VAO Letter dt: 23.12.2020
24	Project Cost	: Rs. 690 Lakhs
25	EMP cost	: Capital - Rs. 3104500 /year Recurring – Rs. 2267000/year Total – Rs.125.7/ 5 year


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26	CER cost	Rs. 13.92 Lakhs
27	ToR Issued details	ToR Issued letter No. SEIAA-TN/F. No. 8275/SEAC/ToR-952/2021 Dated:30.04.2021.
28	Public Hearing Details	Public hearing conducted on: 27.01.2022
29	EIA Report Received	EIA received on: 31.03.2022

Based on the presentation and document furnished by the project proponent, SEAC noted that, the Karikili Bird Sanctuary is located at a distance of 8.4km South and hence the PP shall obtain NBWL clearance, vide, MoEF &CC Office Memorandum no. FC-11/119/2020-FC dated 17th May, 2022.

Subsequently, the proposal was placed in the 533rd Authority meeting held on 18.07.2022. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 23.06.2022.

Now SEIAA has forwarded a representation received from the PP to SEAC for consideration. Hence, the proposal was again placed in 348th SEAC meeting held on 19.01.2023.

SEAC noted that, the SEAC has already deliberated on this matter and decided to direct the PP to get prior clearance from NBWL before considering this case. The decision was taken in accordance with MOEF&CC, O.M No. FCC 11/119/2020-FC dated 17.5.2022. The Memorandum considered two scenarios for the projects falling near the Protected Areas (PA). Under scenario one, where ESZ has been notified around a specific PA, activities proposed to be located within notified ESZ shall be regulated and governed by the ESZ Notification concerned. Further, activities prohibited under ESZ Notification shall not be undertaken. Under scenario two – which is relevant for the present proposal – in respect of Pas for which ESZ has not been notified or ESZ Notification is at draft stage, activities covered under the schedule of EIA notification 2006 and located within 10 km of PAs shall require consideration by the NBWL/ SCNBWL. In the present


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case, namely for Karikili sanctuary ESZ has not yet been notified. It is for this reason that PP has been directed to get clearance from NBWL as per the aforesaid OM.

During the meeting the PP made the following representations before the Committee, for reconsideration of the above decision of SEAC/SEIAA and considering his proposal without insisting on NBWL clearance.

1. Karikili Sanctuary has not been finally notified u/s 26A of Wild Life Act 1972, read with 1991 amendments to the Act, and so Karikili cannot be considered as a Sanctuary.
2. The boundary of Karikili Sanctuary cannot extend beyond the tank area (survey number 188), as processes u/s 19-26A have not been gone through and completed.
3. As per the reply given to the RTI query, the PCCF in his Ref No. WL5/15862/2022-7 dt. 12.01.2023 has furnished the following information.

S.no.	Question	Reply
1.	What is the Eco Sensitive Zone (in Kilometer) of karikili birds Sanctuary, Guindy National Park and Vedanthangal Birds Sanctuary	As per the Hon'ble Supreme Court of India order dated 03.06.2022 in IA No. 1000 of 2003, the eco Sensitive Zone for Karikili and Vedanthangal Birds Sanctuary boundaries is 1 Km from the Sanctuary boundary and as a special case the Eco sensitive Zone for Guindy National Park is 'Zero' meter.

SEAC carefully considered the above representations made by the PP and concluded that the above points were considered by SEAC before taking the decision. However, the PP requested that he may be granted further time to produce some additional documents. SEAC therefore decided to defer the reconsideration of the proposal till the PP submitted additional details.

Now, the PP has furnished the letter obtained from PCCF is as follows


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TAMIL NADU FOREST DEPARTMENT

From
Thiru. Srinivas R Reddy, I.F.S.,
Principal Chief Conservator of Forests
and Chief Wildlife Warden (FAC),
Forest Head Quarters Building,
Guindy-Velachery Main Road,
Near Kankapuram Check Post,
Chennai - 600 032.

To
The Member Secretary,
SEIAA-TN,
Panagal Maaligal,
Salapet,
Chennai - 15.

Ref. No. WL5/3767/2023 dated 15-02-2023

Sir,

Sub: Eco Sensitive Zone - Zero Eco Sensitive Zone proposal submitted to Government of India - Approved by National Board for Wildlife - Applicability of the guidelines for sanctuaries - Consideration of 5 Km Eco Sensitive Zone boundary for mining projects - Clarification - Regarding.

Ref: This office Ref. No. WL5/17723/2022 dated 26-10-2022

.....
In continuation of this office reference cited, it is informed that the as per the G.O. (Ms.) No. 332, Environment and Forests (FR.5) Department dated 23-05-1989, the Karikili Birds Sanctuary has been notified under section 18 of Wildlife (Protection) Act, 1972. The total extent is 151.26 acre or 61.21 Ha and belt of 5 Km width around in S.F. No. 188. Further it is informed that the final notification of Karikili Birds Sanctuary under section 26(A)(1) of Wildlife (Protection) Act, 1972 is under preparation by the District Collector.

2) Further the Eco Sensitive Zone proposal for Karikili Birds Sanctuary has been sent to Government of India through State Government. The proposed extent is 'zero meter'. Based on the above the Government of India, Ministry of Environment Forests and Climate Change, New Delhi has stated that the proposal has been considered in the Ministry and conveyed that in accordance with the decision of the National Board for Wildlife in its meeting held on 17-03-2005 and based on the proposal submitted by the State of Tamil Nadu, 'zero meter' Eco Sensitive Zone has been agreed vide letter F. No. 10-82/2014 WL dated 02-01-2015. Therefore separate Eco Sensitive Zone notification is not required.

Meanwhile Hon'ble Supreme Court in its Order dated 03.06.2022 in IA No. 1000 of 2003 states as below:-

"44. We accordingly direct:


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b) In the event, however, the ESZ is already prescribed as per law that goes beyond one kilometer buffer zone, the wider margin as ESZ shall prevail. If such wider buffer zone beyond one kilometer is proposed under any statutory instrument for a particular national park or wildlife sanctuary awaiting final decision in that regard, then till such final decision is taken, the ESZ covering the area beyond one kilometer as proposed shall be maintained.

c) The Principal Chief Conservator of Forests as also the Home Secretary of each State and Union Territory shall remain responsible for proper compliance of the said Guidelines as regards nature of use within the ESZ of all national parks and sanctuaries within a particular State or Union Territory.

h) In respect of sanctuaries or national parks for which the proposal of a State or Union Territory has not been given, the 10 kilometers buffer zone as ESZ, as indicated in the order passed by this Court on 4th December 2006 in the case of Goo Foundation (supra) and also contained in the Guidelines of 9th February 2011 shall be implemented. Within that area, the entire set of restrictions concerning an ESZ shall operate till a final decision in that regard is arrived at."

Therefore as clarified in Para 2 it is informed that the Eco Sensitive Zone of Karikili Birds Sanctuary may be taken to 6 Kms from the Tank area. Beyond 6 Kms from the Tank, there is no restriction for any non forestry activities and also the question of default 10 Kms Eco Sensitive Zone does not arise.

This is for information.

Yours faithfully,

[Signature]
for Principal Chief Conservator of Forests
and Chief Wildlife Warden

✓ Copy to the Chairman, SEAC, Chennai for information.

Copy to the Chairman, SEIAA-TN, Chennai for information.

Copy to Thiru. V. Sekar, Chennai and 4 others.

[Signature]
15/02/23

Now, the proposal was placed in this 356th Meeting of SEAC held on 17.02.2023. Based on the presentation and documents furnished by the project proponent, SEAC noted the following

- SEAC during its meeting has asked PP to obtain prior SCNBWL clearance for the project located within 10 km radial distance of Karikili Bird Sanctuary (KBS). The EcoSensitive Zone around the sanctuary is yet to be notified by GOI. The PP has represented for reconsideration and the proposal has been taken up in 356 SEAC meeting.

[Signature]
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- Prior SCNBWL is required as per the following GOI OMs and directions issued in this regard:- (a) GOI letter No. 10-83/2014 WL dated 02.07.2018, (b) GOI OM dated 17.05.2022, (c) GOI Ref F No. 6-30/2019 WL dated 06.05.2022, (d) GOI Ref F No. 6-30/2019 WL dated 21.07.2022, (e) GOI Ref F No. 11/20/2018 ESZ dated 19.06.2022
- The above GOI references mention among others, the necessity and applicability of SCNBWL, availability of ESZ, notified ESZs or not notified ESZs etc.
- Govt of TN have submitted “Zero Meter” ESZ proposals to GOI for KBS and Govt of India have also agreed. However, notification under E.P. Act has not been issued yet.
- The PP during appraisal in 356 SEAC, has produced two letters issued by PCCF & CWLW. The PCCF & CWLW in his ref No. WL5/17723/2022 dated 26.10.2022 and WL5/1767/2023 dated 15.02.2023, has opined that ESZ notification is not required since GOI have already agreed for “Zero Meter” and fixed ESZ at 06 km distance from tank. But no notifications under E.P. Act either for “Zero Meter” or now decided “06 km from Tank” are made available to the committee.

The Committee noted that the PCCF&CWLW has categorically stated that for Karikili Birds Sanctuary, zero-meter eco sensitive zone has been approved by the Government of India and therefore, separate Eco Sensitive Zone notification is not required. The Committee, after detailed deliberations, decided to accept the clarification issued by the PCCF & CWLW, who is the statutory authority under the Wildlife Protection Act, and concluded that the proposal does not require NBWL clearance.

The SEAC. after having considered the safety aspects, the revised quantity is as follows


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BENCH PARAMETERS							
YEAR	AS PER APPROVED MINE PLAN - BENCH			AS PER APPROVED TOR - BENCH			REVISED BENCH PARAMETER AFTER SEAC MEETING
	Height IN M	Bench Width IN M	Depth IN M	Height IN M	Bench Width IN M	Depth IN M	
1-5	7	7	67	7	7	47	

REVISED PRODUCTION DETAILS

YEAR	REVISED YEARLY PRODUCTION (m ³)					
	AS PER APPROVED MINING PLAN		AS PER APPROVED TOR RESERVES		REVISED AS PER SEAC MEETING	
	ROUGHSTONE (m ³)	TOP SOIL (m ³)	ROUGHSTONE (m ³)	TOP SOIL (m ³)	ROUGHSTONE (m ³)	TOP SOIL (m ³)
I	148483	16724	115283	16724	115008	16721
II	180086	-	115570	-	118170	
III	180145	-	115976	-	115846	
IV	180194	-	115779	-	118630	
V	180878	-	124443	-	119501	

SEAC after considering all the above aspects decided to recommend the proposal for the grant of Environmental Clearance for quantity of 5871151 m³ of Rough Stone but not exceeding the annual peak production of 115845 cu.m of Rough Stone with maintaining an ultimate depth of 47m 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 mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the

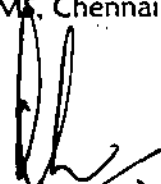

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- Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
 5. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
 6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
 7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
 8. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) considering the existing working conditions of 13 m highwall bench by maintaining appropriate safe width for the same and incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
 9. However, 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) within the commencement of two years of quarrying 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.


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10. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures situated within 1 km from the boundary of the quarry such as blast-induced ground/air vibrations and fly rock', by involving a 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.
11. As a part of EC Compliance, the PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
12. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
13. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia& 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
14. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
15. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the


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- blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
16. 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.
 17. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
 18. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
 19. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
 20. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
 21. 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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22. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
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.
24. As accepted by the Project proponent the CER cost is Rs. 15.0 lakhs and the amount shall be spent for the Adoption of Neerkundram Primary school as committed, before obtaining CTO from TNPCB.

Agenda No: 356-TA5
(File No: 7696/2022)

Proposed Rough stone & Gravel quarry lease over an extent of 1.40.98 Ha in S.F.No 114/1, 114/2, 114/3, 114/4, 114/5, 114/6, 114/7, 114/8, 114/9B and 115, Padur Village, Uthiramerur Taluk, Kanchipuram District, Tamil Nadu by Thiru.L.Muthuraj - For Environmental Clearance. (SIA/TN/MIN/63076/2021 Dt. 29.03.2022)

The proposal was earlier placed for appraisal in the 291st meeting of SEAC held on 1.7.2022. 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.L.Muthuraj has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 1.40.98 Ha in S.F.No 114/1, 114/2, 114/3, 114/4, 114/5, 114/6, 114/7, 114/8, 114/9B and 115, Padur Village, Uthiramerur Taluk, Kanchipuram District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR issued vide Lr No. TN/F.No.7696/SEAC/TOR-978/2020 Dt. 5.7.2021.
4. Public hearing conducted on 27.1.2022.

Details of the Proposal		
1.	Name of the Owner/Firm	Thiru.L.Muthuraj No.17/32, Nehru Highway B.V.Nagar , High Road Nanganallur


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		Chennai - 600061
2.	Type of quarrying (/Rough Stone/Sand/Granite)	Rough Stone & Gravel
3.	S.F No. Of the quarry site with area break-up	114/1, 114/2, 114/3, 114/4, 114/5, 114/6, 114/7, 114/8, 114/9B & 115
4.	Village in which situated	Padur
5.	Taluk in which situated	Uthiramerur
6.	District in which situated	Kanchipuram
7.	Extent of quarry (in ha.)	1.40.98Ha
8.	Period of quarrying proposed	5 years
9.	Type of mining	Opencast Semi Mechanized Mining Method
10.	Production (Quantity in m3)	<p>Geological reserves: 4,21,860 m³ of Rough stone & 14,062 m³ of Gravel and the ultimate depth is 31m</p> <p>5-year production (Restricted as per ToR) 93800 m³ of Rough stone & 6786 m³ of Gravel to a depth of 26m</p> <p>Annual peak production 19,380m³ Rough stone (1st year) and 4,002m³ of Gravel (1st year).</p>
11.	Latitude & Longitude of all corners of the quarry site	12°42'46" N to 12°42'54."N 79°50'27"E to 79°50'32"E
12.	Top Sheet No.	57-P/10, 13& 14
13.	Man Power requirement per day:	12 Nos.
14.	Precise area communication approved by the District Collector with date	Rc. No.386/Q3/2019, dated: 14.01.2020
15.	Mining Plan approved by the Assistant Director (i/c), Joint Director, Department of Geology and Mining with date	Rc. No.386/Q3/2019, dated: 26.02.2020
16.	Water requirement: 9. Drinking & domestic purposes (in KLD) 10. Dust suppression & Green Belt (in KLD)	2.5 KLD 1.0 KLD & 0.5 kld 0.5 KLD 0.5 KLD
17.	Power requirement i. Domestic Purpose	TNEB
18.	Depth of quarrying	26m
19.	Depth of water table	40-43m BGL

20.	Whether any habitation within 300m distance	No
21.	Project Cost (excluding EMP cost)	Rs. 54,13,920/-
22.	EMP cost	Capital cost : Rs. 1629500 /year Recurring cost : Rs. 13,0,000/year Total- 76.30Lakhs/5 year
23.	CER cost	Rs.5.0 Lakhs
24.	AD mines 500m cluster letter by the Assistant Director, Department of Geology and Mining with date	Rc. No.386/Q3/2019, dated: 11.06.2020
25.	VAO certificate regarding 300m radius cluster	Letter furnished


The proposal was again placed in 348th SEAC meeting held on 19.01.2023. Based on the presentation made by the proponent SEAC noted that the proposed site is located 7.5 km from Karikili Bird sanctuary, hence the PP shall furnish the Clearance from SCNBWL vide MoEF OM FC-11/119/2020-FC dated 17 th May, 2022.

Now SEIAA has forwarded a representation received from the PP to SEAC for consideration. Hence, the proposal was again placed in 348th SEAC meeting held on 19.01.2023.

SEAC noted that, the SEAC has already deliberated on this matter and decided to direct the PP to get prior clearance from NBWL before considering this case. The decision was taken in accordance with MOEF&CC, O.M No. FCC 11/119/2020-FC dated 17.5.2022. The Memorandum considered two scenarios for the projects falling near the Protected Areas (PA). Under scenario one, where ESZ has been notified around a specific PA, activities proposed to be located within notified ESZ shall be regulated and governed by the ESZ Notification concerned. Further, activities prohibited under ESZ Notification shall not be undertaken. Under scenario two – which is relevant for the present proposal – in respect of Pas for which ESZ has not been notified or ESZ Notification is at draft stage, activities covered under the schedule of EIA notification 2006 and located within 10 km of PAs shall require consideration by the NBWL/ SCNBWL. In the present


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case, namely for Karikili sanctuary ESZ has not yet been notified. It is for this reason that PP has been directed to get clearance from NBWL as per the aforesaid OM.

During the meeting the PP made the following representations before the Committee, for reconsideration of the above decision of SEAC/SEIAA and considering his proposal without insisting on NBWL clearance.

1. Karikili Sanctuary has not been finally notified u/s 26A of Wild Life Act 1972, read with 1991 amendments to the Act, and so Karikili cannot be considered as a Sanctuary.
2. The boundary of Karikili Sanctuary cannot extend beyond the tank area (survey number 188), as processes u/s 19-26A have not been gone through and completed.
3. As per the reply given to the RTI query, the PCCF in his Ref No. WL5/15862/2022-7 dt. 12.01.2023 has furnished the following information.

S.No.	Question	Reply
1.	What is the Eco Sensitive Zone (in Kilometer) of karikili birds Sanctuary, Guindy National Park and Vedanthangal Birds Sanctuary	As per the Hon'ble Supreme Court of India order dated 03.06.2022 in IA No. 1000 of 2003, the eco Sensitive Zone for Karikili and Vedanthangal Birds Sanctuary boundaries is 1 Km from the Sanctuary boundary and as a special case the Eco sensitive Zone for Guindy National Park is 'Zero' meter.

SEAC carefully considered the above representations made by the PP and concluded that the above points were considered by SEAC before taking the decision. However, the PP requested that he may be granted further time to produce some additional documents. SEAC therefore decided to defer the reconsideration of the proposal till the PP submitted additional details.

Now, the PP has furnished the letter obtained from PCCF is as follows


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TAMIL NADU FOREST DEPARTMENT

From
Thiru. Srinivas R Reddy, I.F.S.,
Principal Chief Conservator of Forests
and Chief Wildlife Warden (PAC),
Forest Head Quarters Building,
Grindy-Velachery Main Road,
Near Kanikapuram Check Post,
Chennai - 600 032.

To
The Member Secretary,
SEIAA-TN,
Paragal Nagar,
Saidapet,
Chennai - 15.

Ref. No. WL5/3767/2023 dated 18-02-2023

Sir,

Sub: Eco Sensitive Zone - Zero Eco Sensitive Zone proposal submitted to Government of India - Approved by National Board for Wildlife - Applicability of the guidelines for sanctuaries - Consideration of 5 Km Eco Sensitive Zone boundary for relating projects - Clarification - Regarding.

Ref: This office Ref. No. WL5/17723/2022 dated 26-10-2022

In continuation of this office reference cited, it is informed that the as per the G.O. (Ms.) No. 332, Environment and Forests (FR5) Department dated 23-05-1989, the Karikilli Birds Sanctuary has been notified under section 18 of Wildlife (Protection) Act, 1972. The total extent is 151.26 acre or 61.21 Ha and belt of 5 Km width around in S.F. No. 188. Further it is informed that the final notification of Karikilli Birds Sanctuary under section 26(A)(1) of Wildlife (Protection) Act, 1972 is under preparation by the District Collector.

2) Further the Eco Sensitive Zone proposal for Karikilli Birds Sanctuary has been sent to Government of India through State Government. The proposed extent is 'zero meter'. Based on the above the Government of India, Ministry of Environment Forests and Climate Change, New Delhi has stated that the proposal has been considered in the Ministry and conveyed that in accordance with the decision of the National Board for Wildlife in its meeting held on 17-03-2005 and based on the proposal submitted by the State of Tamil Nadu, 'zero meter' Eco Sensitive Zone has been agreed vide letter F. No. 10-02/2014 WL dated 02-01-2015. Therefore separate Eco Sensitive Zone notification is not required.

Meanwhile Hon'ble Supreme Court in its Order dated 03.06.2022 in IA No. 1000 of 2003 states as below:-

*44. We accordingly direct


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- b) In the event, however, the ESZ is already prescribed as per law that goes beyond one kilometer buffer zone, the wider margin as ESZ shall prevail. If such wider buffer zone beyond one kilometer is proposed under any statutory instrument for a particular national park or wildlife sanctuary awaiting final decision in that regard, then till such final decision is taken, the ESZ covering the area beyond one kilometer as proposed shall be maintained.
- c) The Principal Chief Conservator of Forests as also the Home Secretary of each State and Union Territory shall remain responsible for proper compliance of the said Guidelines as regards nature of use within the ESZ of all national parks and sanctuaries within a particular State or Union Territory.
- a) In respect of sanctuaries or national parks for which the proposal of a State or Union Territory has not been given, the 10 kilometers buffer zone as ESZ, as indicated in the order passed by this Court on 4th December 2006 in the case of Goa Foundation (supra) and also contained in the Guidelines of 9th February 2011 shall be implemented. Within that area, the entire set of restrictions concerning an ESZ shall operate till a final decision in that regard is arrived at."

Therefore as clarified in Para 2 it is informed that the Eco Sensitive Zone of Karikili Birds Sanctuary may be taken to 6 Kms from the Tank area. Beyond 6 Kms from the Tank, there is no restriction for any non forestry activities and also the question of default 10 Kms Eco Sensitive Zone does not arise.

This is for information.

Yours faithfully,

U. P. S. 2. V. V.
for Principal Chief Conservator of Forests
and Chief Wildlife Warden

✓ Copy to the Chairman, SEAC, Chennai for information.

Copy to the Chairman, SEIAA-TN, Chennai for information.

Copy to Thiru. V. Sekar, Chennai and 4 others.

B
15/02/23

Now, the proposal was placed in this 356th Meeting of SEAC held on 17.02.2023. Based on the presentation and documents furnished by the project proponent, SEAC noted the following

- SEAC during its meeting has asked PP to obtain prior SCNBWL clearance for the project located within 10 km radial distance of Karikili Bird Sanctuary (KBS). The EcoSensitive Zone around the sanctuary is yet to be notified by GOI. The PP has represented for reconsideration and the proposal has been taken up in 356 SEAC meeting.
- Prior SCNBWL is required as per the following GOI OMs and directions issued in this regard:- (a) GOI letter No. 10-83/2014 WL dated 02.07.2018, (b) GOI OM dated 17.05.2022, (c) GOI Ref F No. 6-30/2019 WL dated 06.05.2022, (d)

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[Signature]
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GOI Ref F No. 6-30/2019 WL dated 21.07.2022, (e) GOI Ref F No. 11/20/2018 ESZ dated 19.06.2022

- The above GOI references mention among others, the necessity and applicability of SCNBWL, availability of ESZ, notified ESZs or not notified ESZs etc.
- Govt of TN have submitted "Zero Meter" ESZ proposals to GOI for KBS and Govt of India have also agreed. However, notification under E.P. Act has not been issued yet.
- The PP during appraisal in 356 SEAC, has produced two letters issued by PCCF & CWLW. The PCCF & CWLW in his ref No. WL5/17723/2022 dated 26.10.2022 and WL5/1767/2023 dated 15.02.2023, has opined that ESZ notification is not required since GOI have already agreed for "Zero Meter" and fixed ESZ at 06 km distance from tank. But no notifications under E.P. Act either for "Zero Meter" or now decided "06 km from Tank" are made available to the committee.

The Committee noted that the PCCF&CWLW has categorically stated that for Karikilli Birds Sanctuary, zero-meter eco sensitive zone has been approved by the Government of India and therefore, separate Eco Sensitive Zone notification is not required. The Committee, after detailed deliberations, decided to accept the clarification issued by the PCCF & CWLW, who is the statutory authority under the Wildlife Protection Act, and concluded that the proposal does not require NBWL clearance.

The SEAC, after having considered all the above aspects, decided to recommend proposal for issuance of EC. Further, SEAC to recommend the proposal for the grant of Environmental Clearance for ultimate depth of mining restricted to 31m to 26 m BGL considering the environmental impacts due to the mining, safety of the working personnel and following the principle of the sustainable mining in the bottom bench. Consequently, the SEAC recommends to grant the Environmental Clearance for the maximum minable quantities of 93,800 Cu.m of Rough stone & 6,786 cu.m of Gravel for a period of five years but however not exceeding the annual peak production of 19,380 cu.m of Rough Stone, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF & CC, in addition to the following specific conditions:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier **vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.**
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. The proponent shall construct 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/map showing the same before obtaining the CTO from TNPCB.
5. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
8. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) considering the existing working conditions of 13 m high wall bench by maintaining appropriate safe width for the same and incorporating the haul

road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.

9. However, 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) within the commencement of two years of quarrying 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.
10. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures situated within 1 km from the boundary of the quarry such as blast-induced ground/air vibrations and fly rock', by involving a 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.
11. As a part of EC Compliance, the PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
12. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
13. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.


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14. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
15. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
16. 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.
17. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
18. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
19. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
20. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras

-Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

21. 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.
22. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
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.
24. As accepted by the Project proponent the CER cost is **Rs. 15.0 lakh** and the amount shall be spent for the committed activities in Panchayat Union Primary school, Padur as committed, before obtaining CTO from TNPCB.

Agenda No: 356 – TA-6
(File No. 8201/2022)

Expansion of existing Residential Apartment complex by M/s. Puravankara Limited., at S.No: 53/3, 53/4, 53/10B, 55, 56/1, 57/2 & 57/4 of Pudupakkam Village, Chengalpattu Taluk, Kancheepuram District, Tamil Nadu – Environmental Clearance- Regarding.(SIA/TN/MIN/76143/2007, dated: 26.04.2022)

The proposal was placed for appraisal in this 356th meeting of SEAC held on 18.02.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Puravankara Limited has applied for Environmental Clearance for the Expansion of constructed Residential Apartment complex project at S.F.Nos. 53/3, 53/4, 53/10B, 55, 56/1, 57/2 & 57/4 of Pudupakkam Village, Chengalpattu Taluk, Kancheepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 8(b) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.


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3. Total Plot area: 127570 .85 Sqm, Built up Area :1,44,596 Sqm with 1184 Dwelling units –construction completed at year 2012 (Fully occupied) –
EC obtained Vide letter No. SEIAA/TN/EC/8(a)/006/F-20/2008, Date:24.07.2008
4. ToR under Violation issued vide Letter No. SEIAA-TN/F.No.8201/Violation/ToR-1036/2021 dated: 13.10.2021
5. Now, the proposal was placed in the 343rd SEAC Meeting held on 05.01.2023. Based on the presentation and document furnished by the project proponent, SEAC decided obtain the following additional particulars from the proponent:
 - i) Affidavit shall be submitted to undertake Operation & Maintenance for 10 Years.
 - ii) Submit the revised EMP including Solar which must cover a minimum of 50% of the roof top area.Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation.
After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to **direct SEIAA-TN to initiate action to be taken for violation cases in accordance with law.**
6. Subsequently, the proposal was placed in the 588th SEIAA meeting held on 01.02.2023. The authority accepts the decision of SEAC and decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent and the State Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr. No. SEAC-TN/8201/Site-Inspection/2022, dated 05.01.2023; based on Minutes of the 343rd SEAC Meeting, held on 05.01.2023, to inspect and study the field condition for the proposal seeking EC for Expansion of constructed Residential Apartment complex project at S.F.Nos. 53/3, 53/4, 53/10B, 55, 56/1, 57/2 & 57/4 of Pudupakkam Village, Chengalpattu Taluk, Kancheepuram District. The Committee comprised of Dr. K.S. Kavi Kumar, Member SEAC – TN.


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1. Context and Chronology

- M/s Puravankara Ltd. constructed residential apartment complex in S.F.No.: 53/3, 53/4, 53/10B, 55, 56/1, 57/2 & 57/4 of Pudupakkam village, Chengalpattu Taluk, Kancheepuram District spread over a plot area of 127570.85 sq.m. The total built-up area was 144596 sq.m. and had 1184 dwelling units. The construction was completed in 2012. The concerned EC was obtained vide letter No. SEIAA/TN/EC/8(a)/006/F-20/2008, dated 24th July 2008.
- M/s Puravankara Ltd. submitted application for expansion for the construction of additional 990 dwelling units at the same site in February 2009.
- The expansion work with a total built-up area of 46619.02 sq.m. (and with no increase in the plot area) was completed (and was occupied) in the year 2014 without obtaining the EC.
- After a series of events as outlined in Annexure I, SEIAA-TN issued fresh ToR under violation category on 13.10.2021.
- The project proponent submitted EIA reports including ToR compliance and the same were placed before 343rd SEAC Meeting held on 5th January 2023.
- SEAC constituted a sub-committee for onsite inspection.
- The sub-committee visited the site on 11.02.2023. Besides interacting with the project proponent, the sub-committee examined all the relevant documents and visited various environment management facilities at the project site.

2. Main Issue

- The relevant violation by M/s Puravankara Ltd. pertained to the construction of additional 990 dwelling units (built-up area 46619 sq.m.) at an additional capital cost of INR 66.26 crore. Total project cost including the construction under violation is INR 276.78 crore.
- The construction under violation involved additional freshwater requirement of 449 KLD for over 5494 additional occupants.
- The period of violation (as highlighted in the Annexure I) has been ascertained as: 2012 to 2021, i.e., 9 years.

3. On-Site Inspection – Observations

- **Sewage Treatment:** There was a complaint from the residents about the noise and odour from the sewage treatment plants at the site – in particular with regard to STP-2. The project has apartments at the ground level and in close proximity to the STPs. This led to the complaint and dispute. The matter went to NGT and the PP was directed to make arrangements for sound-proofing the STP area, besides paying a fine of INR 1.2 crore (the matter regarding the payment of NGT fine is presently being heard by the Honourable Supreme Court).
- The PP has carried out alterations in the STP area including revamping of the motors. The noise from both the STPs in their working condition seems

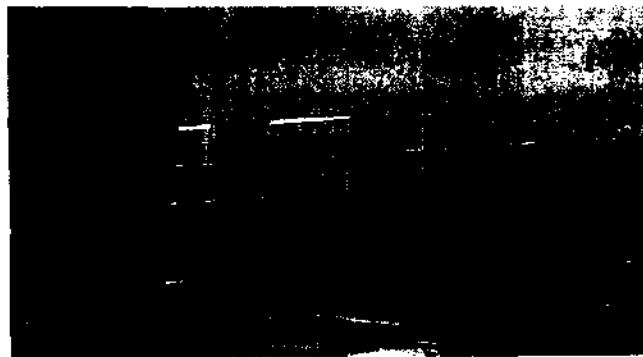

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reasonable at the time of inspection. The residents have also not made any further complaints about the noise and odour.

- The STPs are currently being maintained by professional agency and the present contract period extends up to 2024.



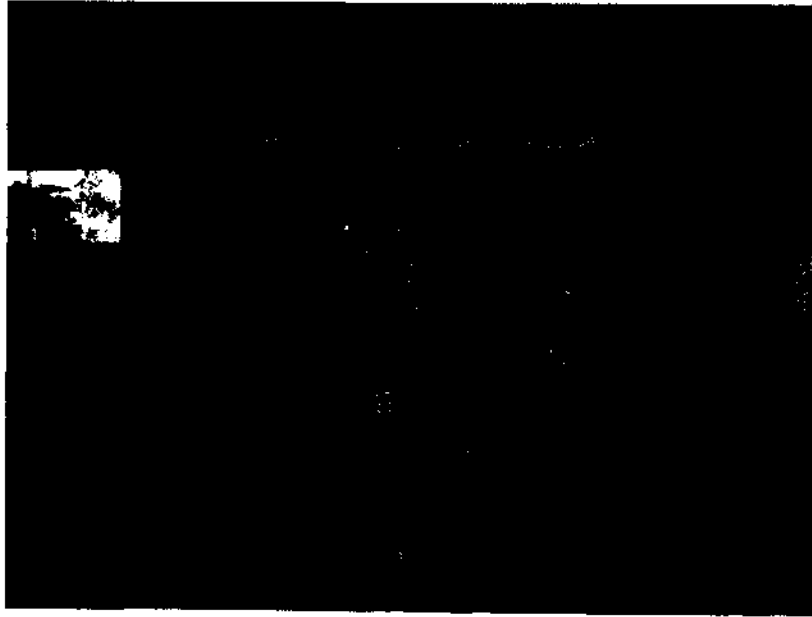
STPs in close proximity and at the same level as the Residential Apartments



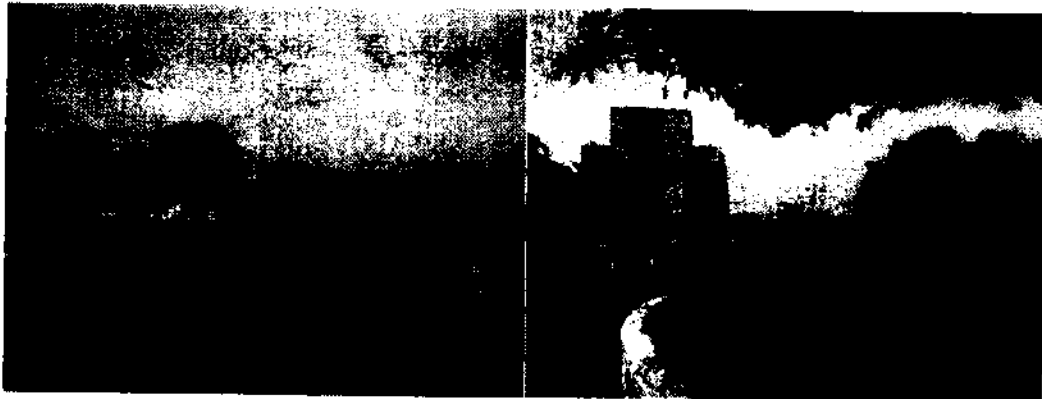
Sound Proofing/Covering at STPs

- **Waste Collection:** The waste collection is being done in an organized manner and being processed at designated area away from the residential blocks, for pick-up and disposal by the local municipality.


- The project site has an organic waste converter installed, but doesn't seem to be well utilized.



- **Green Cover:** The project site has very little tree cover. Good landscaping has been done and maintained (in the OSR area), but the tree cover and greenery is largely missing at the project site. The project proponent claimed that the residents and the association is not keen on maintaining green cover and have removed the trees planted multiple times. One possible reason could be the fact that the apartments at the project site are at the ground level, and hence the possibility of insects/mosquitos due to tree cover/greenery has prompted the residents to oppose the greenbelt development.
- The entire area looks barren with only a few handful of trees (that too in the OSR area). The tree cover and landscaping is better and well maintained only in the front end of the project site.




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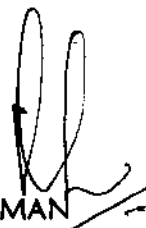


- As can be seen in the photograph below the rear side of the complex has been fully paved with no green cover.



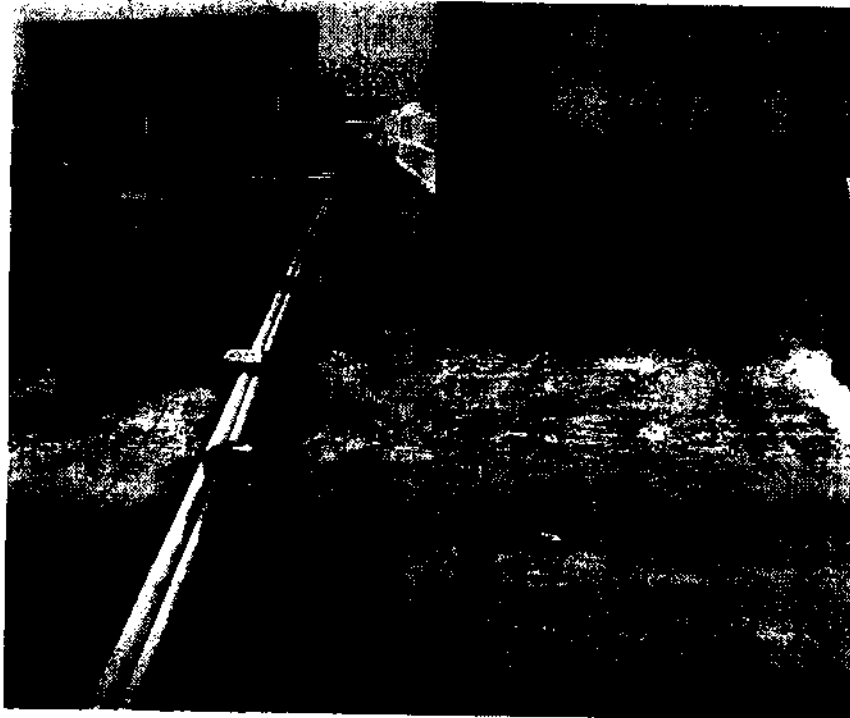
- The adjoining plots appear to have better tree cover compared to the project site.


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- The land-use breakup provided in the EIA report shows 19128 sq.m. as landscape area (excluding OSR & terrace garden), and 12497 sq.m. as OSR area. In reality the landscaping has largely been restricted to the OSR area. Since the project site has surface parking facility only, and as mentioned above the apartments are at the ground level, the scope for landscaping and greenbelt development has been very minimal.
- **Solar:** Use of solar panels has been confined to street/avenue lighting alone. Given that the construction was completed almost a decade back, the terrace area has little scope for installing solar panels.



- The project proponent may have to explore other options for meeting the requirement of covering 50% of the roof top area with solar panels.


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- The project cost attributable to the additional built-up area of 46619 Sqm is INR 66.26 crores.
- The EMP cost during the operational phase (for the entire project including the dwelling units constructed without EC) includes INR 339.7 lakhs towards capital cost, and INR 86.76 lakhs per annum towards operational cost.
 - The Residents Association is presently charging INR 1.65 per sq.ft. as monthly maintenance, that includes the drinking water charges also.
- The Project Proponent proposed to undertake CER activities in Pudupakkam Government School, and Government Higher Secondary School, Uthandi at a capital cost of INR 66.26 lakhs. **It may be noted that the numbers provided in the EIA report are lower than those given here.**

4. Recommendation

- The OM (22-21/2020-IA.III, dated 07.07.2021) provides SoP for dealing with violation cases. Accordingly, in addition to the implementation of EMP in a time-bound manner, the project proponent (in the cases where the project activity is permissible) will be required to submit a bank guarantee equivalent to the amount of Remediation Plan and Natural and Community Resource Augmentation Plan.
- The Project Proponent through the NABET accredited consultant has estimated the cost of ecological damage & remediation plan, natural resource and community augmentation plan as shown in the table below: **(it may be noted that the numbers provided in the EIA report are lower than those given below)**

Sl. No.	Plan	Cost Assessed per year (INR, lakhs)	Total Cost for the Violation Period (INR, lakhs)
1	Ecological Damage/Remediation	5.0	45.00
2	Natural Resource Augmentation	4.0	36.00
3	Community Augmentation	4.4	39.60
	Total	13.40	120.60

- The Project Proponent has not clearly specified where he/she proposes to undertake these activities. ~~The proposed plan~~ may be approved after obtaining the clear plan of implementation. To the extent possible all remediation/augmentation activities shall take place near the project site to ensure possible reversal of damage caused by the construction without environmental clearance.

- As observed in the report, the greenbelt and tree cover at the project site is very minimal. Notwithstanding the opposition from the Residents' Association, the PP shall spend at least part of the restoration budget for greenbelt development at the project site.
- In addition, the PP may be asked to furnish proof for undertaking the proposed CER activities in the Pudupakkam and Uthandi government schools.
- As observed in the 343rd SEAC meeting, the PP may be asked to submit affidavit for undertaking maintenance of STP and other facilities for 10 years at the project site.
- As mentioned in the report, there appears to be little scope for undertaking roof top solar panel installation at the project site. The PP shall explore other options to fulfil the requirement and furnish the plan for the same.
- The subcommittee opines the grant of Environmental Clearance to M/s Puravankara Ltd. may be considered by SEAC subject to the above-mentioned conditions.

The above Sub-committee report was placed in this 356th Meeting of SEAC held on 18.02.2023. After detailed deliberation, SEAC decided to obtain the remarks of the PP on the observations of the sub-committee and also shall submit the details sought by sub-committee.

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


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ANNEXURE-I

1. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
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 i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
5. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
6. The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.

7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
8. The Project Proponent shall carry out slope stability study by a reputed academic/research institution such as NIRM, IIT, Anna University for evaluating the safe slope angle if the proposed dump height is more than 30 meters. The slope stability report shall be submitted to concerned Regional office of MoEF&CC, Govt. of India, Chennai as well as SEIAA, Tamilnadu.
9. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
10. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
11. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
12. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper escapements as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.


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13. **Noise and Vibration Related:** (i) The Proponent shall carry out only the Controlled Blasting operation using NONEL shock tube initiation system during daytime. Usage of other initiation systems such as detonating cord/fuse, safety fuse, ordinary detonators, cord relays, should be avoided in the blasting operation. The mitigation measures for control of ground vibrations and to arrest fly rocks should be implemented meticulously under the supervision of statutory competent persons possessing the I / II Class Mines Manager / Foreman / Blaster certificate issued by the DGMS under MMR 1961, appointed in the quarry. No secondary blasting of boulders shall be carried out in any occasions and only the Rock Breakers (or) other suitable non-explosive techniques shall be adopted if such secondary breakage is required. The Project Proponent shall provide required number of the security sentries for guarding the danger zone of 500 m radius from the site of blasting to ensure that no human/animal is present within this danger zone and also no person is allowed to enter into (or) stay in the danger zone during the blasting. (ii) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
14. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
15. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.


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17. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
21. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are 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.
23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the


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

25. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
26. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
27. The mining lease holders shall, after ceasing mining operations, undertake 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.
28. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project information as shown in the **Appendix -II** of this minute.


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Appendix - I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவம்ப
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சளா, அழகனக்குன்றியாணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathu	அத்தி
7	<i>Bauhinia tomentos</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமர
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொண்டை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொண்டை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசம்மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கொங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவுளி
18	<i>Creteva adansoni</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சீரு உவா
21	<i>Diospyro sebenum</i>	Karungali	கரங்காணி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amphissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	அத்துப்பாரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயி மரம், ஆயிலி
27	<i>Lanea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விளா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிசிம்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழமரம்
35	<i>Mitragnya parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனை
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனை
38	<i>Phoenix sylvestre</i>	Eachai	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முனை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முனை
42	<i>Premna tomentosa</i>	Malaipoovarazu	மலை பூங்கா
43	<i>Prosopis cinerea</i>	Vanni maram	வாணி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vernangu, Tada	வேர்வாங்கை
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Putranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மாணிபுண்டி சோபுகை
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தாங்கு கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்திரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருத்து
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தான வேம்பு
58	<i>Thespesia populnea</i>	Purvarasu	பூங்கா
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பழி


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

-----சுரங்கம்

சுரங்கங்களில் சுவாமி செயல்பாடுகளுக்கான கற்றுத்தரல் அனுமதி சிறக்க நடவடிக்கைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEAA/-----, தெலிங்காபுரம், கற்றுத்தரல் அனுமதி ----- தேதி வரை செல்லத்தக்கதாக உள்ளது.

பணியை பகுதி வாரியர் செயல்பாட்டுக்கான சுரங்கத் திட்டம்	சுவாமிநீரின் எண்ணெயை சுற்றி வேலி அமைக்க வேண்டும் சுரங்கங்களின் ஆழம் தளமாட்டத்திற்குத் திட்டத்து மிசாமல் இருக்க வேண்டும் காந்தியர் மாநகர ஏற்பாடுகளை அங்கு பணிகளை மேற்கொள்ள வேண்டும்.
நடப்பட்டு புறமுகப்பெயர் வேண்டிய மரபுகள் எண்ணிக்கை.	வாகனங்கள் செல்லும் பாதையில் மாநகர ஏற்பாடு அமைந்துள்ள பகுதிகளில் முன்பாக தள்ளி வாகனங்களின் மூலமாக அவ்வப்போது தெரிக்க வேண்டும். இதற்கான அமைப்பை தர மாநகராட்சியின் குறைப்பற்றாக சுவாமிநீரின் எண்ணெயை சுற்றி அடத்திலான பணியை பகுதியை ஏற்படுத்த வேண்டும்.
சுரங்கத்தில் வெளியே வரும்பொழுது நிலத்திற்குள் ஏற்படக்கூடிய கந்தல் கற்கள் பரக்காதவாறு பாதாளப் புவியகவகளை உள்நிலை செயல்படுத்தப்பட வேண்டும்.	
சுரங்கத்தில் இருந்து ஏற்படும் இழைச்சல் அல்லது கெட்டிபெயர் (கா) அமைந்து மேல் ஏற்படக்கூடிய தகந்தல் கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.	
சுரங்க சட்ட விதிகள் வரை சிறு சுரங்கத்தில் உள்ள பணியாளர்களுக்கு தகந்தல் பாதாளப் புவியக கட்டுவதில் கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.	
சுரங்க அல்லது பகுதியை வாரியர் வாகனங்கள் செல்லும் சாலைகளை தெளிக்க தனது பணியை மேற்கொள்ள வேண்டும்.	
சுரங்கப்பணிகளை அடக்க உடனடி விவரங்கள் பணிகள் மற்றும் திட்டங்களை பாதாளப் புவியக சட்டம், திட்டங்களை பாதாளப் புவியக சட்டம் இயக்குக உறுதி செய்யும் வகையில் தகந்தல் திட்டம் தற்போது மேற்கொள்ள வேண்டும்.	
சுரங்கத்திலிருந்து வலியுறுத்தும் பொருட்களை எடுத்துச் செல்லும் சிறு மக்களுக்கு எந்த சிறந்தவிவரங்கள் ஏற்படுத்தாதவாறு பாதாளப்போடும் மற்றும் கற்றுத்தரல் பாதாளவாத வாகனங்கள் வாகனங்களை இயக்க வேண்டும்.	
சுரங்கப்பணிகள் முடிக்கப்பட்டவுடன் சுரங்க மூடல் திட்டத்தில் உள்ளவாறு சுரங்கத்தின் மூட வேண்டும்.	
சுரங்க நடவடிக்கைகளை முடித்தபின்னர் சுரங்கப் பகுதி மற்றும் சுரங்க நடவடிக்கைகளை இடையூறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுபரிசீலனை செய்து தகந்தல் விவரங்கள் ஆய்விவரத்தில் வாரியர்களுக்கு ஏற்ற வகையில் பணியை மேற்கொள்ள வேண்டும்.	
முழுமையான தகந்தலைகளை அறிய பதிவேடு (http://parish.nic.in) வந்து இணையதளத்தைப் பார்க்கவேண்டும் மேலும் சுரங்க கற்றுத்தரல் சந்திர பாதாளக் செல்லாமல் உடனடி கற்றுத்தரல் மற்றும் வரை அமைச்சரின் குருகிணைந்த வட்டிய அனுமதி: 04 - 2822325 (அல்லது) தமிழ்நாடு மாநகராட்சி வாரியரின் மாநகர கற்றுத்தரல் பொதுமன்ற அனுமதி	


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