MINUTES

592nd MEETING

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY-TAMIL NADU

Date: 16.02.2023



MINUTES OF THE 592nd MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HELD ON 16.02.2023.

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 591 st meeting of the Authority held on 10.02.2023.		The minutes of the 591st meeting of the Authority held on 10.02.2023 was confirmed.
b)	The Action taken on the decisions of the 591st meeting of the Authority held on 10.02.2023.		The Member Secretary informed that 591 st Minutes uploaded in Parivesh wesbsite and action taken report will be putup ensuing meeting.
	Proposed Construction of Residential Building Complex at T.S. No. 9/20A, 9/20B, 10/5, 10/6, 10/7-1, 10/7-2, 10/7-3, 11/4, 11/5, 11/6, 11/7A, 11/7B, 11/8, 11/10, 11/11, 12/9, 12/11, 12/12, 12/14, 13/1, 13/2A, 13/3A, 13/4A1, 13/4B1, 13/4C1, 13/5A, 15/1B, 15/2A, 15/2B1, 15/4A, 15/4C, 15/5 and 16/1 of Block No.25 Ward C, Zamin Pallavaram and T.S.No4/1, 4/3, 5/1, 5/2, 5/3, 5/4A1, 5/4A2, 5/4B, 5/5/2, 5/6, 5/7, 5/8, 5/9, 5/10-2, 6/1, 6/2, 6/3, 6/4/1, 6/11A1, & 6/12 of Block No. 19 Ward G, Nemilichery Village of Pallavaram Town, Pallavaram Taluk, Chengalpattu District, Tamil Nadu by M/s. Prestige	6676	The authority noted that the subject was appraised in 347th SEAC meeting held on 13.01.2023. After detailed discussion, the Authority accepted the recommendation of SEAC and decided to grant of Terms of Reference as recommended by SEAC for undertaking the Environment Impact Assessment Study and preparation of Environment Management Plan subject to the conditions as recommended by SEAC in addition to the following conditions: 1. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP mentioning all the CER activities as committed with the action plan. 2. The proponent shall furnish details on the measures taken to make the Buildings energy efficient and confirm to the green building norms. 3. The proponent shall provide details on the adequate parking facility provided including vehicles of all the workers & visitors including

MEMBER SECRETARY

MEMBER

Pallavaram Ventures - For Terms of Reference.

- 4. The proponent shall ensure that no treated or untreated trade effluent/sewage discharged outside the premises under any circumstances.
- 5. The disaster management and disaster mitigation plan shall be furnished and should be seriously adhered to avoid of calamities.
- 6. The project proponent shall furnish the action taken to improve water usage efficiency in the building.
- 7. The project proponent shall conduct detailed study of biodiversity flora & fauna including invasives /endemic vulnerable species.
- 8. The project proponent shall furnish NOC obtained from competent authority that there is no encroachment of water bodies (including canals).
- The project proponent shall furnish impact of Green House Gases emissions and climate change likely due to activities.
- 10. The project proponent shall conduct detailed soil investigation including microflora /fauna.
- 11. The project proponent shall study impact on livelihoods of locals.
- 12. The project proponent shall furnish List of trees available in the area.
- 13. The project proponent shall study impact of activities on water bodies/wetlands.
- 14. The project proponent shall conduct studies on invasive and alien species and the measures taken to prevent the spread of these.
- 15. The proponent shall furnish details on the actions taken to reduce anthropogenic GHGs such as CO₂, CH₄, nitrous oxide, etc., resulting from human activities.

MEMBER SECRETARY

AGWY OWD MEMBER

- 16. The proponent shall furnish details on the strategies adopted to decarbonize the building.
- 17. The proponent shall furnish measures taken to mitigate the impact on critically endangered species, biodiversity, etc, due to the modification of the habitat.
- 18. The proponent shall develop emergency response plan in addition to the disaster management plan.
- 19. The proponent shall furnish details on building-friendly pest control strategies developed using non chemical measures so as to control the pest population thereby not losing beneficial organisms.
- 20. The proponent furnish detailed plan adopted to reduce carbon footprints and also strategies for climate proofing and climate mitigation.
- 21. The proponent shall furnish details on strategies developed to ensure the buildings in blocks don't trap heat and become local urban heat islands.
- 22. The proponent shall furnish details on the sustainability criteria adopted to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements.
- 23. The proponent shall furnish details on the strategies developed to prevent bird hits.
- 24. The proponent shall furnish details on the provisions made to ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.

MEMBER

2.	Proposed Rough stone and Gravel quarry lease over an extent of 1.25.0 Ha in S.F.No. 531/1A2 (Part) of Ponmanai A Village, Thiruvattar Taluk, Kanniyakumari District, Tamil Nadu by Thiru. V.S.Raju- For Terms of Reference.	644	 25. The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan during emergencies. 26. The proponent shall furnish details on the strategies adopted to maintain the health of the inhabitants in high rise buildings. 27. The proponent shall explain the methodology adopted to control thermal environment and other shocks in the building. 28. The proponent shall provide details on the provisions for controlled ventilation and lighting systems. The Authority noted that the proposal was placed in the 347th meeting of SEAC held on 13.01.2023. The SEAC decided that a sub-committee will be formed to carry out on the spot -inspection of the project site to assess the anticipated impacts of mining activity on the surrounding environmental settings and to submit report. Further the SEAC directed the PP to furnish the copy of necessary approvals (mandatory documents) detailing the new Survey number of the mine lease area. On receipt of the same, SEAC would further deliberate on this project.
			The Authority decided to request the Member Secretary, SEIAA TN to communicate the aforesaid SEAC minutes to the Proponent.
3.	Proposed Black granite quarry lease over an extent of 8.46.0 Ha in SF.No. 315, 316 and 317/1 of Sathanur Village, Thandaramapttu Taluk,	9647	The authority noted that this proposal was placed for appraisal in this 347 th meeting of SEAC held on 13.01.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined

5

MEMBER

SEIAA-TN

MEMBER SECRETARY

`				
•	,	Nadu by M/s. Tamil Nadu		Environment Impact Assessment Study and preparation
		Minerals Limited - For Terms of	·	of separate Environment Management Plan subject to the
		Reference.		conditions as recommended by SEAC & normal
				conditions in addition to the conditions in 'Annexure B'
				of this minute.
				1. The activity should not result in CO ₂ release and
				temperature rise and add to micro climate
				alternations.
				2. The proponent shall ensure that the activity does
				not disturb the water bodies and natural flow of
				surface and ground water, nor cause any
				pollution, to water sources in the area.
				3. The proponent shall ensure that the activity does
				not disturb Soil health & bio-diversity, Climate
				change leading to Droughts, Floods etc.
			<u> </u>	4. The proponent shall ensure that the activity does
				not Pollute leading to release of Greenhouse
				gases (GHG), rise in Temperature, & Livelihood
				of the local people.
				5. The proponent shall ensure that the activity does
				not make the Possibilities of water contamination
				and impact on aquatic ecosystem health.
				6. The trees present in the site shall be protected,
				replanted elsewhere.
				7. The PP shall study the impact on Invasive Alien
	-			Species (IAP).
	4.	Proposed Black granite qquarry	9648	The Authority noted that the subject was appraised in
		over an extent of 20.95.5 Ha at		347th SEAC meeting held on 13.01.2023. After detailed
		S.F.Nos. 1193/1 (Part 5 & 16),		discussions, the Authority accepts the recommendation
		Kodakkal Village, Sholinghur		of SEAC and decided to grant Terms of Reference (ToR)
		Taluk, Ranipet District, Tamil		along with Public Hearing under cluster for undertaking
		Nadu by M/s. Tamil Nadu		the combined Environment Impact Assessment Study

MEMBER

	Minerals Limited- Terms of		and preparation of separate Environment Management
	Reference.	1	Plan subject to the conditions as recommended by SEAC
),	& normal conditions in addition to the conditions in
			'Annexure B' of this minute.
			1. The total quantity of 1,10,265 cu.m of RoM
			does not exceed with 11,027cu.m of Black
			Granite(10% Recovery) & 99238cu.m of
		:	Granite waste/rejects, are permitted with
			ultimate depth up to 40m GL considering the
			safety aspects for a period of 5 years.
			2. The project proponent shall prepare mine
			closure plan considering mineable quantity of
			Topsoil, Weathered rock & mineral
			reject/waste. If any.
			3. Copy of valid mining lease approval obtained
		·	from the competent Authority.
		,	4. Copy of approved review of scheme of mining
		İ	plan by the competent authority (Dept. of
			Geology and Mining / IBM).
		;	5. Details of habitations around the proposed
		i	mining area and latest VAO certificate regarding
			the location of habitations within 300m radius
			from the periphery of the site.
			6. The DFO letter stating that the proximity distance
			of Reserve Forests, Protected Areas, Sanctuaries,
			Tiger reserve etc., up to a radius of 25 km from
			the proposed site.
5.	Proposed Rough Stone and	9650	The authority noted that this proposal was placed for
٠.	Gravel quarry over an extent of	1	appraisal in this 347th meeting of SEAC held on
	4.54.0 Ha in S.F.No. 80/2, 80/7,		13.01.2023. After detailed discussions, the Authority
	80/8, 80/9, 80/10, 80/11, 80/12,		accepts the recommendation of SEAC and decided to
	80/13, 80/14, 80/15, 80/16,		grant Terms of Reference (ToR) along with Public
	<u> </u>	<u> </u>	1

MIMBER SECRÉTARY

MEMBER

∕ηγγ√ CHAIRMAN SEIAA-TN 80/23, 206/36 & 207/6 in Melur Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Thiru. T. Tamilselvan - for Terms of Reference.

Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minute.

- 1. Since the SVS International college of Architecture is located at a distance of 164m from the proposed mining lease area, the proponent is requested to submit status of license and NoC from the All India Council for Technical Education (AICTE).
- 2. As per Tamil Nadu Minor Mineral Concession Rules, 1959 under section V Miscellaneous in para 36. General restrictions in respect of quarrying operations; (1-A) (a) "No lease shall be granted for quarrying stone within 300 metres (three hundred metres) from any inhabited site: Provided that the exiting quarries which are subsisting under current leases shall be entitled for continuance till the expiry of the lease period. The lessees whose quarries lie within a radius of 300 metres from the inhabited site shall undertake blasting operations only after getting permission of the Director of Mines Safety, Chennai.".

Since the SVS International college of Architecture is located at a distance of 164m from the proposed mining lease area, The PP is requested to obtain permission from the Director of Mines Safety, Chennai.

MEMBER SECRETARY

MEMBER

0 S I	Proposed Rough stone & gravel over an extent of 3.21.5 Ha at S.F.Nos. 220/1A, 1C & 223/2F of chipatti Village, Palladam Faluk, Tiruppur District, Tamil Nadu by Thiru. S.A. Ramachandran - For Terms of Reference		 The proponent is requested to submit NoC from PWD as the proposed lease area is located between two water bodies. The proponent is requested to submit NoC from DFO since the Birds that visit nearby water bodies are likely to be affected by the operation of mining. The proposal is placed in this 347th SEAC Meeting held on 13.01.2023. Based on the presentation made by the proponent, SEAC decided to call for the following additional details. The proponent shall submit Certified Compliance Report. The proponent shall submit Slope Stability Action Plan for the existing quarry. The proponent shall complete the Fencing activities and carry out the Green Belt development activities around the boundary of the lease and shall submit Photo and video of the same. On receipt of the aforesaid details, the proposal will be considered for further deliberations. In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 347th SEAC held on 13.01.2023 to the project proponent.
7.	Proposed Rough Stone and Gravel quarry lease over a extent 2.27.5 Ha at S.F.No.104/104/2A (Part), 104/2B1 (Part) 105/1A (Part) & 105/2 (Kuppam Village, Pugalur Talu	n 1,), of	The authority noted that the subject was appraised in 347th SEAC meeting held on 13.01.2023. Based on the presentation and details furnished by the project proponent, the Committee decided to obtain the following details from the project proponent to consider the proposal for appraisal:

9

SEIAA-TN

MEMBER SECRETARY

Karur District, Tamil Nadu by Thiru.P.Devaraj - For Terms of Reference.

- 1. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
- The proponent shall also furnish details/photographs of the garland drains provided.

Hence, after detailed discussions and deliberations, the committee decided to consider the proposal after the submission of aforesaid details by the Proponent/consultant.

In view of this, the authority after discussions decided to request Member Secretary, SEIAA to communicate the minutes of the 347th SEAC meeting to the proponent.

8. Proposed Multi-colour Granite quarry lease over an extent of 2.65.0 Ha in SF. No. 417/2, 454/2, 417/5, 417/7(P) of K.Pitchampatti Village, Karur Taluk, Karur District, Tamil Nadu by M/s. Dahlia Granites Private Limited - For Terms of Reference.

The authority noted that this proposal was placed for appraisal in this 347th meeting of SEAC held on 13.01.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minute.

- 1. The activity should not result in CO₂ release and temperature rise and add to micro climate alternations.
- The proponent shall ensure that the activity does not disturb the water bodies and natural flow of

MEMBER SECRETARY

MEMBER

9654

surface and ground water, nor cause any pollution, to water sources in the area. 3. The proponent shall ensure that the activity does not disturb Soil health & bio-diversity, Climate change leading to Droughts, Floods etc. 4. The proponent shall ensure that the activity does not Pollute leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people. 5. The proponent shall ensure that the activity does not make the Possibilities of water contamination and impact on aquatic ecosystem health. 6. The trees present in the site shall be protected, replanted elsewhere. 8. The PP shall study the impacton Invasive Alien Species (IAP). 9. The PP shall revise EMP. The authority noted that this proposal was placed for 9661 Existing Limestone mine lease 9. appraisal in 347th meeting of SEAC held on 13.01.2023 over an extent of 138.78.5 Ha in, and the PP was asked to respond to the decision of EAC S. F. Nos. 5/1, 7/7, 7/8, 7/9, 7/10 extracted above and the details of OMs based on which etc.. Patta & Poramboke lands of the PP is seeking examination of their proposal. PP Dholipatti, Palayam & Karikkali requested time to discuss with their legal team. Hence Village, Guziliamparai Taluk, SEAC decided to defer the proposal. Further SEAC also Dindigul District, Tamil Nadu by noted that the PP has not included the survey numbers in Chettinad Cement M/s. online application and in PPT and hence the PP is Corporation Private Limited requested to include all the survey numbers in the For Terms of Reference. application and in the PPT and the PP shall furnish ownership details of all survey numbers. In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC

MEMBER SECRETARY

MEMBER

CHAIRMAN SELAA-TN

minutes to the project proponent held on 13.01.2023.

Proposed sand quarry lease over an extent of 14.00.0 Ha at S.F.No. 146/10 (Part) of Alagiyamanavalan Village, Ariyalur Taluk, Ariyalur District - Tamil Nadu by M/s. The Executive Engineer, Water Resources Department, Mining and Monitoring Division, Tiruchirapalli for Terms of Reference

9666

10.

The Authority noted that the proposal was placed in the 347th meeting of SEAC held on 13.01.2023. SEAC has furnished its recommendations to the Authority for granting Terms of Reference (ToR) along with Public Hearing for the project.

After detailed discussions, the Authority accepted the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the ToR as recommended by SEAC & subject specific standard ToR stipulated by MoEF& CC in addition to the following ToR:

- 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 address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.
- The Project Proponent shall study and report in detail the following, as provided in Sustainable Sand Mining Management Guidelines, 2016 and Enforcement and Monitoring Guidelines for Sand Mining, 2020.
- 3. Furnish the Details with route map and the transportation route.
- 4. The details of maximum production from the mines.
- Demarcation of mining area with pillars and georeferencing shall be made by furnishing photographs taken on site prior to the start of mining.

MEMBER SECRETARY

MEMBER

6. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities. 7. The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem. 8. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services. 9. The project proponent shall study impact on indigenous flora and fauna. 10. The project proponent shall study impact on fish habitats and the web food web/ food chain in the water body and Reservoir. The authority noted that this proposal was placed for Proposed Rough stone & Gravel | 9668 11. appraisal in this 347th meeting of SEAC held on quarry lease over an extent of 13.01.2023. After detailed discussions, the Authority 8.00.05 Ha in SF.Nos. 2/1B, 2/2, accepts the recommendation of SEAC and decided to 2/3 (P), 2/5, 3, 4/1 & 4/2 of grant Terms of Reference (ToR) along with Public Enthoor Village, Marakkanam Hearing under cluster for undertaking the combined District. Taluk. Viluppuram Environment Impact Assessment Study and preparation Tamil Nadu by M/s. Thirupathi of separate Environment Management Plan and Blue Metal & M.Sand - For considering sustainable and safe mining SEIAA decided Terms of Reference. to grant Terms of Reference (ToR) along with Public Hearing for the period of 5 Years confining to the ultimate depth of mining up to 45m Below ground level

MENBER SECRETARY

MEMBER

CHAIRMAN SEIAA-TN

and the quantity of 11,55,048m³ of Rough stone and

12.	Recommendations for releasing the Bank guarantee for the value of Rs 114.62 Lacs (0.5% of the	371	1,40,744m³ of Gravel as per approved mining plan issued by the Department of Geology & Mining subject to the conditions as recommended by SEAC & normal conditions in addition to the conditions in 'Annexure B' of this minute. The Authority noted that the proposal was placed in the 347th meeting of SEAC held on 13.01.2023. The Committee after detailed discussions decided to
	Project cost) remitted towards Ecological remediation, Natural resources Augmentation and Community resources Augmentation under EIA Notifications dated 14.3.2017 & 08.03.2018 (violation category) for the Construction of additional buildings for Engineering College, Hostel and Bank in its existing campus by M/s. KGISL Trust at S.F. Nos. 353/1, 2, 354/1, 356/3A, 357/1D pt, 358/2A, 2C, 2D, 359/1A, 1B, 360/1C, 1Dpt, 361/3A, 362/1Bpt, 1C,2A, 2B, 363/1B, 2, 3, 365/1A, 2, 366/1A, 1A1A2, 366/1A2, 1B & 372/2, of Saravanampatti Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu without obtaining prior		recommend to SEIAA to accept the request of the Proponent to release the Bank Guarantee submitted to TNPCB, as the Project Proponent has fulfilled all conditions. The Authority decided to accept the recommendation of SEAC for release of the bank guarantee. Further, the Authority decided to request the Member Secretary, SEIAA to communicatee the same to TNPCB.
- 12	Environmental Clearance		
13.	Proposed Charnockite Blue Metal quarry lease over an extent	3985	The Authority noted that this proposal was placed for appraisal in this 347th meeting of SEAC held on

MEMBER

of 0.70.96 Ha in S.F. Nos. 133/2A, 2B, 3A, 3B. 4 & 142/5C2, 6B. 7A. 7B. Keezhmidalam-A Village. Taluk, Vilavancode Kanniyakumari District, Tamil Nadu by Thiru.C.Climond - For Environmental Extension of Clearance.

4722

13.01.2023 and during the meeting the Committee noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence. In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 13.01.2023.

14. Existing Rough stone quarry over an extent of 2.02.5 Ha at S.F.No 2(P) of Ellupudayampatty Village, Harur Taluk, Dharmapuri District, Tamil Nadu by Thiru. I D Alavudeen basha - For Terms of Reference under the Violation category

The authority noted that the subject was appraised in 347th SEAC meeting held on 13.01.2023.

Based on the presentation and documents furnished by the project proponent, SEAC observed that, (1) the land is Government land – tender quarry, (2) the lease period has expired and currently there is no valid lease and the question of issuing ToR for preparation of EIA report for EC does not arise (3) PP may have neither the access to the site nor the inclination to prepare damage assessment for the violation committed and (4) it is vital to enforce the principle of 'polluter pays' in such cases, SEAC decided to recommend the following course of action.

- i. SEIAA may direct TNPCB to work out the damage assessment by following the guidelines of CPCB in this regard, after getting the relevant details from the concerned AD G&M, and take action to recover the cost.
- ii. The SEIAA may direct the Directorate of Mining and Geology(DMG) to ascertain as to whether the PP had complied with the mine closure plan as per mining plan and if the PP had not complied with the same, take

MEMBER SECRETARY

Symman MEMBER

_ 1		· · · · · · · · · · · · · · · · · · ·		
٠	,			appropriate action for enforcing the mining
				closure plan, including recovery of cost, if
				any.
				iii. The SEIAA may direct the TNPCB/DMG to
				file the action taken report on the basis of the
				above direction within a period of six months,
				after providing the necessary opportunity to
				the PP in this regard in accordance with law.
				iv. SEIAA may initiate action under Sec.19 of EP
				Act against the PP.
				The Authority after detailed deliberation accepts the
				decision of SEAC. Further, SEIAA decided to direct MS-
				SEIAA the following
				1. A letter may be addressed to the Government to
				take action against the PP under the provision of
				section 19 of the Environment (Protection) Act,
				1986
				2. Further AD/Mines shall submit the present
				ground status which shall include
				i. Whether the land was utilized for the
				intended purpose.
				ii. If there is any change in the
				landscape.
				iii. The Year wise bulk transport permit
i				(as per appendix XII - TNMMCR,
				1959) issued to the lessee.
Ì	15.	Existing Limestone Mine from	6366	The Authority noted that the subject was placed in the
		over an Extent of 4.49.0Ha in		347th Meeting of SEAC held on 13.01.2023. The SEAC
Ì		S.F.Nos. 13/1A, 13/1B, 13/1C,		after detailed discussions decided to confirm that the
		13/1D, 13/1E, 13/2, 14/1, 14/2,		ToR issued is valid up to 31.07.2023 as per the
		14/11, 14/12, 14/13A, 14/13B,	i	aforesaid MoEF Notification dated 18.01.2021.
		14/14A, 14/14B, 14/16, 14/17A,		
_		,		
		/	W/	, maure o

MEMBER

14/17B at Alanthuraiyarkattalai (A.Panangur) Village of Ariyalur Taluk, Ariyalur District by Thiru. K. Ganesan, K. Subramanian & K. Jegathesan For Extension of validity of the Terms of Reference issued under "Violation Category"

Hence, the project proponent is requested to submit the following:

- a) Public hearing minutes, EIA/EMP report along with details of aspects of violation, Ecological Damage assessment, Remediation Plan, Natural Resource Augmentation Plan, Community Resource Augmentation plan.
- b) Proof for the action taken by the State Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended on 08.03.2018.

The Authority, after detailed deliberations accepted the aforesaid recommendations of the SEAC and decided to grant extension of ToR under violation category for the period up to 31.07.2023. subject to the ToR as recommended by the SEAC in addition to the following ToR:

- The proponent shall furnish the DFO letter stating the proximity distance of nearest RF, WLS & Tiger reserve etc.
- 2. The project proponent shall submit valid mining lease and scheme of mining plan obtained from the competent authority.
- 3. The project proponent shall submit excess mined out quantity during the violation period after 15.01.2016 along with details of existing pit within the proposed mining area and the copy of remittance of fine levied for the same from the concerned AD/DD, Geology & Mining Dept.

MEMBER SECRETARY

MEMBER

- The project proponent shall submit details of case filed against the project proponent under Section 19 of the Environment (Protection) Act, 1986.
- 5. The limestone quarry involves raw material extraction, transportation and comminution. Therefore, large quantity of diesel and electricity are supposed to be consumed in the production. The diesel fuel and electricity to be consumed to be furnished.
- 6. What are the green mining technologies to be adopted for reducing GHG/CO₂ emissions and lowering the carbon footprint in the limestone mining.
- 7. Strategies adopted for safety and healthy mining operations.
- What are the transparency and accountability system in place during the operation and postoperation period of the project.
- 9. What are the In-House environmental performance and evaluation tools to understand negative impacts of mining.
- 10. Detailed study to be made on material flow analysis and Life Cycle Assessment (LCA) in the process of production.
- 11. Through a chart Illustration, clarify the cradle to grave approach for extraction of limestone and anticipated emissions, environmental threats in every stage and mitigation strategy at every stage.
- 12. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts.
- 13. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication including detailed

MEMBER

terrestrial toxicity and their impacts of wildlife and biodiversity. 14. What is the total water withdrawal consumption, likely temperature rises and climate change impacts. 15. What are the chemical exposures in the limestone mining and risks anticipated to environmental and human health. All other conditions imposed in ToR Letter Lr No. 516/2018 Dated: SEIAA-TN/F.No.6366/TOR-01.08.2018 remains unaltered. The Authority noted that the subject was appraised in Existing Black Granite quarry 6573 16. 347th SEAC meeting held on 13.01.2023. The Authority lease over an extent of 24.30.0 after detailed discussion accepts the recommendation of S.F.Nos.1193/1 (Part), SEAC and the Authority has decided to grant Kodakkal Village, Sholingur Amendment for Environmental Clearance as follows Taluk, Ranipet District, Tamil subject to grant the existing conditions as mentioned in Nadu by M/s. Tamil Nadu SEIAA-TN/F. No. EC vide Lr. the Limited For Minerals 6573/2018/1(a)/EC. No.4557/2021 Dt. 24.02.2021 and Amendment in Environmental the remains unaltered and additional conditions as Clearance issued recommended by SEAC in addition to the following condition recommended by SEAC. Amendment Production qty as per EC issued Dt. 24.02.2021 | Recommended RoM: 146083 M³ RoM: 219560 M³ Black Granite Annual Black Granite: 21596 M³ peak production: 14490 period the for 24.02.2021 to 31.03.2023 Black Granite: 29216 M³ (20% of Recovery) waste/Rejects: Granite

MEMBER SECRETARY

MEMBER

CHAIRMAN SEIAA-TN

116867 M³

Validity as per MoEF &
CC notification dated:
13.12.2022

 The project proponent shall store/dump the and Top soil/Weathered Rock generated within the earmarked area of the project site and the utilize the same for mine closure as per the approved mining plan.

17. Existing Black Granite quarry lease over an extent of 7.80.0 Ha S.F.Nos.324/1, Samanur Village, Palacode Taluk, Dharmapuri District, Tamil Nadu by M/s Tamil Nadu Minerals Limited - For Amendment in Environmental Clearance issued

6741

The Authority noted that the subject was appraised in 347th SEAC meeting held on 13.01.2023. The Authority after detailed discussion accepts the recommendation of SEAC and the Authority has decided to grant Amendment for Environmental Clearance as follows subject to grant the existing conditions as mentioned in the EC vide Lr. No. SEIAA-TN/F. No. 6741/1(a)/EC. No.4679/2021 Dt. 29.07.2021 and the remains unaltered and additional conditions as recommended by SEAC in addition to the following condition recommended by SEAC.

Production qty as per	Amendment
EC issued Dt. 29.07.2021	Recommended
RoM: 119987 M ³	RoM: 95987 M ³
Black Granite: 5999 M ³	(Remaining four years)
for the period of Five	Black Granite Annual
years	peak production: 4803 M ³
	Black Granite: 19197 M ³
	(20% of Recovery)
	Granite waste/Rejects:
	76790 M ³
	Validity as per MoEF &
	CC notification dated:
	13.12.2022

MEMBER SECRETARY

MEMBER

18.	Amendment of Environmental Clearance for the proposed Black Granite Quarry over an extent of 30.10.5 Ha at SF.No.1, Sudanur village, Palacode Taluk, Dharmapuri District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited— Environmental	1. The project proponent shall store/dump the and Top soil/Weathered Rock generated within the earmarked area of the project site and the utilize the same for mine closure as per the approved mining plan. The authority noted that a public complaint was received from Thiru. A.Murugan Dt:06.01.2023 received by this office Dt: 11.01.2023. In view of the above, the authority after detailed discussion decided refer back the proposal to SEAC for remarks & recommendation.
19.	Clearance. Existing Black Granite quarry lease over an extent of 35.99.0 Ha at S.F.No: 412 (P) at Sinjalanatham Village, Pennagaram Taluk, Dharmapuri District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited-For Environmental Clearance	appraisal in the 347 th meeting of SEAC held on 13.01.2023 and the SEAC decided to defer the proposal since the project proponent has again requested additional time to furnish certain details sought by the Committee vide minutes of 291 st SEAC meeting held on 1.7.2022 & the vide minutes of 536 th Authority meeting held on 21.10.2020 & 22.10.2020. In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 13.01.2023.
20.	Existing Black Granite Quarry lease over an extent of 2.53.50 Ha at S.F. No. 184/1B(P) of Thatchampattu Village, Gingee Taluk, Villupuram District, Tamil Nadu by M/s. Tamil Nadu	The Authority noted that this proposal was placed fo appraisal in this 347 th meeting of SEAC held of 13.01.2023 and based on the presentation and documer furnished by the project proponent, SEAC decided to call for the following details from the project proponent:

MEMBER

	,		
	Minerals Limited - For Extension		1. The PP shall furnish a 2 nd scheme of approved
	of Environmental Clearance.		mining plan and approval letter obtained from
			Director/ Asst. Director, Department of Geology.
			On the receipt of the same further deliberation will be
			done.
			In view of the above, the Authority decided to request the
			Member Secretary, SEIAA to communicate the SEAC
			minutes to the project proponent held on 13.01.2023.
21.	Proposed Black granite qquarry	1652	The Authority noted that the subject was appraised in
	over an extent of 46.07.0 Ha at		347 th SEAC meeting held on 13.01.2023. After detailed
	S.F.No. 311 Old No 311/1		discussions, the Authority accepts the recommendation
	Rajakkal Village, Gudiyatham		of SEAC and decided to grant Terms of Reference
	Taluk, Vellore District, Tamil		(ToR) with Public Hearing under violation category
	Nadu by M/s. TamilNadu		for the period 3 years for undertaking EIA study followed
	Minerals Limited- Terms of		by the EMP report along with assessment of ecological
	Reference		damage, remediation plan and natural and community
			resource augmentation plan and it shall be prepared as an
			independent chapter by the accredited consultants subject
ļ			to the conditions as recommended by SEAC & normal/
			Standard conditions in addition to the following
			conditions and conditions stated therein vide Annexure
<u> </u>		i	'B'.
			1. The project proponent shall prepare mine closure
			plan considering mineable quantity of Topsoil,
			Weathered rock & mineral reject/waste. If any.
			2. Copy of valid mining lease approval obtained
			from the competent Authority.
			3. Letter stating that the quarry lease deed has not
			been cancelled or terminated and is subsisting as
			on date.
			4. Copy of request letter submitted to the competent
			authority (Dept. of Geology and Mining / IBM)
		!	

MEMBER

	T	1	T
			for renewal of review of scheme of mining plan. 5. Copy of approved review of scheme of mining plan by the competent authority (Dept. of Geology and Mining / IBM). 6. The project proponent shall submit excess mined out quantity during the violation period after 15.01.2016 along with details of existing pit within the proposed mining area and copy of total penalty levied by the AD/DD, Dept of Geology and Mining and copy of remittance of total penalty by PP. 7. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site. 8. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from
22.	Existing Black granite qquarry over an extent of 6.73.0 Ha at S.F.No. 4/2 & 4/37 Thandrampattu Village, Chengum Taluk, Tiruvannamalai District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited—Terms of Reference.	1827	The authority after detailed discussion decided that the automatic extension of validty of prior Environmetnal Clearance should be based on approval mining plan. Also, the project proponent has filed application seeking Terms of Reference(ToR) online proposal only and not for Extension validty of Environmental Clearance. In view of the above, SEAC has decided to refer back the proposal to SEAC and SEAC is requested consider approved mining plan and to recommended approval of ToR.
23.	Existing Limestone Quarry over an extent of 7.330 Ha by M/s. India Cements Limited at S.F.No.	6688	The Authority noted that the proposal was placed in the 347 th meeting of SEAC held on 13.01.2023. The Committee noticed that the project proponent,

MEMBER

	· · · · · · · · · · · · · · · · · · ·		
,	382/1 & 3, 387/1 & 3, 512/1 & 3		meanwhile, has filed application seeking Environmental
	in Ramayanpatti Village, Manur		Clearance along with final EIA report and other
	Taluk, Tirunelveli District, Tamil		supporting documents. Hence the SEAC decided to
	Nadu by M/s. India Cements		appraise the project proposal for Environmental
	Limited - For Extension of		Clearance in the ensuing meeting.
	validity of the Terms of		The Authority decided to consider the withdrawal of
	Reference issued under		ToR extension application after processing the
	"Violation Category"	•	application filed for EC and to request the Member
			Secretary, SEIAA to communicate the SEAC & SEIAA
			minutes to the Proponent.
24.	Existing Limestone Quarry over	6689	The proposal is placed in this 347th SEAC Meeting held
	an extent of 28.430 Ha.		on 13.01.2023.
	S.F.No.380, 381, 383-386, 388/1		During the meeting, the Proponent informed that he has
	& 3, 389-392, 510, 511, 513 &		already submitted the final EIA Report at the office of
	514 in Ramayanpatti Village,		SEIAA in the month of January. Hence, the Committee
	Manur Taluk, Tirunelveli		after detailed discussion decided to consider the proposal
	District, Tamil Nadu by M/s. The		in the ensuing meeting.
	India Cements Limited for		In the view of the above, SEIAA accepts the decision of
	extension of validity for the		SEAC and decided to request Member Secretary to
	Terms of References "Under		communicate the minutes of 347th SEAC held on
	Violation".		13.01.2023 to the project proponent.
25.	Existing Limestone quarry over 6	6690	The authority noted that the subject was appraised in
	an extent of 29.895 Ha at		347th SEAC meeting held on 13.01.2023. During the
	S.F.No.110, 172/1 & 174 of		meeting, the Proponent informed that he has already
	Sethurayanpudur Village, Manur		submitted the final EIA Report at the office of SEIAA in
	Taluk, Tirunelveli District, Tamil		the month of January. Hence, the Committee after
	Nadu by M/s. The India Cements		detailed discussion decided to consider the proposal in
	Limited for Extension of validity		the ensuing meeting.
	for the Terms of References		In view of this, the authority after discussions decided to
	"Under Violation".		request Member Secretary, SEIAA to communicate the
			minutes of the 347 th SEAC meeting to the proponent.
L	<u> </u>		

MEMBER

26. Existing Black granite and Granitic Gneiss quarry lease over an extent of 16.54.0 Ha at Survey No:287 (Panchappalli) & 19 (Namandahalli) Panchapalli & Namandahalli Village, Palacode Taluk. Dharmapuri District. Tamil Nadu by M/s. Tamil Nadu Minerals Limited- For Terms of Reference

6709

The Authority noted that the proposal was placed in the 347th meeting of SEAC held on 13.01.2023. The SEAC decided to recommend the proposal for the grant of Terms of Reference (TOR), subject to the TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report. After detailed discussion, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions in

1. Proponent shall comply with all the conditions imposed in the Precise area communication letter before applying for EC.

addition to the following conditions.

- The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc.,
- 3. The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines.
- 4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network.
- 5. The committee shall deliberate on risk management plan pertaining to the cluster in a

MEMBER SECRETARY

MEMBER

- holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan.
- 6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail.
- 7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.
- 8. The committee shall furnish the Emergency Management plan within the cluster.
- The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public.
- 10. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area covering the entire mine lease period as per precise area communication order issued 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.

MEMBER

- 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.
- 11. The committee shall furnish an action plan to achieve sustainable development goals with reference to water, sanitation & safety.
- 12. The committee shall furnish the fire safety and evacuation plan in the case of fire accidents.
- 13. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished.
- 14. Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.
- 15. Impact on surrounding agricultural fields around the proposed mining Area.
- 16. Erosion Control measures.
- 17. Impact on soil flora & vegetation around the project site.
- 18. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/Rivers, & any ecological fragile areas.
- 19. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological

MEMBER

- sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.
- 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 address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.
- 21. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities.
- 22. The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.
- 23. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
- 24. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.
- 25. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
- 26. The Environmental Impact Assessment should study impact on forest, vegetation, endemic,

MEMBER

- vulnerable and endangered indigenous flora and fauna.
- 27. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.
- 28. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.
- 29. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.
- 30. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock.
- 31. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.
- 32. The project proponent shall study and furnish the impact of project on plantations in adjoing patta lands, Horticulture, Agriculture and livestock.
- 33. The project proponent shall study and furnish the details on potential fragmentation impact of natural environment, by the activities.
- 34. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.

MEMBER

- 35. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impacts of plastic & microplastics on aquatic environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.
- 36. The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife.
- 37. 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 entire mine lease period.
- 38. 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 covering the entire mine lease period as per precise area communication order issued.
- 39. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.

MEMBER

27.	Proposed Existing Educational
	Institution under Violation
	Category at S.F. No. 49 to 59,
	60/1B, 60/1C, 62/1, 62/2, 62/4A,
	63/1, 64/1A, 64/1B, 64/3A,
	64/3B, 64/4, 65, 66, 67, 68 to 77,
	79 to 82, 83/2, 84/1A, 84/1B,
	84/2A, 84/2B, 85, 86/1, 86/2,
	87/1, 87/2, 118/1A, 118/1B1,
	118/2A, 118/2B, 119, 120, 121/1,
	121/2, 121/3, 121/4A, 121/4B,
	122/1A, 122/1B, 122/2, 123/1,
	123/2, 128/1A1, 128/1A2, 128/2,
	128/3, 129/2A, 129/2B, 130/1,
	130/2, 131 to 151, 153 to 158,
	159/1, 159/2A, 161/1, 161/2,
	162, 169/2, 169/3A, 169/3B,
	170/1, 197/1A, 198/2B1, 198/3,
	198/4A & 198/4B of
ĺ	Kalavakkam Village and Survey
	Nos. 1034, 1035, 1036, 1037,
ĺ	1038, 1039, 1040/1B, 1040/2B,
	1041, 1046, 1047, 1048, 1226,
	1227/2A, 1227/2B, 1228, 1234,
	1236, 1237, 1238, 1239, 1240,

- 40. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.
- 41. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued.

The Authority noted that the proposal was appraised in 347th meeting of SEAC held on 13.01.2023. The Committee carefully examined the request of PP in the light of MoEF & CC Notification S.O.3252 (E) dated.22.12.20214 and O.Ms dated 09.06.2015 & 19.05.2022 and has furnished its remarks as stated in the minutes.

The Authority during discussions, carefully reviewed the following references:

- 1. The minutes of 220th SEAC meeting held on 20.07.2021.
- 2. Proponent's reply dated.07.09.2021.
- 3. The minutes of 247th SEAC meeting held on 18.02.2022.
- 4. The minutes of 491st Authority meeting held on 08.03.2022
- 5. The minutes of 261st SEAC meeting held on 07.04.2022.
- 6. The minutes of 506th Authority meeting held on 10.05.2022.
- ToR under violation issued vide Lr.No.SEIAA-TN/F.No.513/Violation/ToR-1146/2022 dated.10.05.2022.
- 8. Proponent's request for an amendment vide letter dated.25.10.2022.

MEMBER SECRETARY

Syrrano MEMBER

513

1241, 1242, 1243, 1244, 1245, 1246, 1247/1C, 1247/2, 1248/1C, 1248/2, 1395C/1A1, 1395C/2A, 1395C/4B, 1415 of Thaiyur B Village, Tiruporur Taluk, Chengalpattu District, Tamil Nadu by M/s. SSN Trust – Clarification Sought – Reg

- 9. Proponent's request dated. 10.01.2023 to exempt the proposed built-up area.
- 10. The minutes of 347th SEAC meeting held on 13.01.2023.
- 11. MoEF&CC notification S.O. 3252 (E), dated the 22.12.2014.
- 12. MoEF&CC Office Memorandums dated O.Ms dated 09.06.2015 & 19.05.2022.

The authority noted the following:

- i) The Committee vide ref. 3rd & 5th cited has recommended the proposal for Terms of Reference under violation category for the total built-up area of 2,72,483.60 Sq.m.
- ii) The Authority in its 506th meeting has granted Terms of Reference under violation category for the existing built up area of 2,18,630.6 Sq.m.
- iii) The proponent vide ref. 8 cited has requested to include the proposed built-up area of 53853 Sq.m in the ToR issued under violation dated.10.05.2022.
- iv) Also, the proponent vide ref. 9 cited has requested to exempt the proposed built-up area of 53583 sq.m in the light of MoEF&CC notification S.O. 3252 (E), dated the 22.12.2014.
- v) The Committee also reviewed the request of the proponent vide ref.10th cited.
- vi) As per the ref. 11th cited, the educational institutions falling under the category of 8(a) to the Schedule of EIA notification, 2006 i.e, with built-up area less than 1,50,000 Sq.m are given exemption from obtaining EC.

After carefully reviewing the above mentioned details, the authority decided that the Terms of reference under

MEMBER SECRETARY

MEMBER

violation category issued vide letter dated.10.05.2022 shall be for the total built-up area of 2,72,483.60 Sq.m as per the recommendations of 247th & 261st SEAC meeting. All other conditions mentioned in the ToR Lr.No.SEIAAviolation vide issued under TN/F.No.513/Violation/ToR-1146/2022 dated.10.05.2022 shall remain unchanged and unaltered. The authority noted that the subject was appraised in Proposal seeking Environmental 6896 28. 347th meeting held on 13.01.2023. SEAC has furnished Clearance for the Proposed Fire its recommendations for granting Environmental Clay quarry over an extent of Clearance subject to the conditions stated therein. 17.945 Ha located at S.F. No. After detailed discussions, the Authority taking into 24/3B, 24/3H, 26/1, 26/2, 26/3, account the safety aspects and to ensure sustainable, 27/1, etc,. & Jaderi - 122/1, scientific and systematic mining, decided to grant 122/2B, 122/2C, 122/2D1, etc,. Environmental Clearance for the quantity of 8,72,025 PeriyaKoil and Jader Village, Tonnes of Fire Clay by restricting the depth of mining Cheyyar Taluk, Tiruvannamalai upto 9m BGL as per the mine plan approved by the District by M/s. Wienerberger Department of Geology & Mining. This is also subject India Private Limited. to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes. i) Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period. ii) The EC granted is subject to review by District

MEMBER

implemented.

¢HAIRMAN SEIAA-TN

Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and

MEMBER SECRETARY

- iii) The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.
- iv) The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
- v) The PP shall utilize Topsoil for restoring site/mine closure as per mine closure plan.
- vi) The PP shall provide adequate storm water / garland drain and the storm water shall be routed to the nearby waterbody after obtaining necessary prior permission from competent authority before obtaining CTO from TNPCB.
- vii) As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the revised CER cost is Rs. 20 lakhs and the amount shall be spent for the activities detailed in the SEAC minutes before obtaining CTO from TNPCB

Annexure-'A'

EC Compliance

- 1. The Environmental Clearance is accorded based on the assurance from the project proponent that there will be full and effective implementation of all the undertakings given in the Application Form, Pre-feasibilty Report, mitigation measures as assured in the Environmental Impact Assessment/ Environment Management Plan and the mining features including Progressive Mine Closure Plan as submitted with the application.
- 2. All the conditions as presented by the proponent in the PPT during SEAC appraisal should be addressed in Full.
- 3. The proponent shall submit Compliance Reports on the status of compliance of the stipulated EC conditions including results of monitored data. It shall be sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA).
- 4. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

Applicable Regulatory Frameworks

5. The project proponent shall strictly adhere to the provisions of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the

MEMBER SECRETARY

MEMBER

Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006, Wildlife Protection Act, 1972, Forest Conservation Act, 1980, Biodiversity Conservation Act, 2016, the Biological Diversity Act, 2002 and Biological diversity Rules, 2004 and Rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter

Safe mining Practices

- 6. The AD/DD, Dept. of Geology & Mining shall ensure operation of the proposed quarry after the submission slope stability study conducted through the reputed research & Academic Institutions such as NIRM, IITs, NITS Anna University, and any CSIR Laboratories etc.
- 7. The AD/DD, Dept. of Geology & Mining & Director General of Mine safety shall ensure strict compliance and implementation of bench wise recommendations/action plans as recommended in the scientific slope stability study of the reputed research & Academic Institutions as a safety precautionary measure to avoid untoward accidents during mining operation.
- 8. A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.

Water Environment - Protection and mitigation measures

- 9. The proponent shall ensure that the activity does not disturb the water bodies and natural flow of surface and groundwater, nor cause any pollution, to water sources in the area.
- 10. The proponent shall ensure that the activities do not impact the water bodies/wells in the neighboring open wells and bore wells. The proponent shall ensure that the activities do not in any way affect the water quantity and quality in the open wells and bore wells in the vicinity or impact the water table and levels. The proponent shall ensure that the activities do not disturb the river flow, nor affect the Odai, Water bodies, Dams in the vicinity.
- 11. Water level in the nearest dug well in the downstream side of the quarry should be monitored regularly and included in the Compliance Report.
- 12. Quality of water discharged from the quarry should be monitored regularly as per the norms of State Pollution Control Board and included in the Compliance Report.
- 13. Rain Water Harvesting facility should be installed as per the prevailing provisions of TNMBR/TNCDBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
- 14. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the compliance reports to SEIAA.

MEMBER SECRETARY

MEMBER

- 15. Regular monitoring of ground water level and water quality shall be carried out around the mine area during mining operation. At any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.
- 16. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.

<u>Air Environment – Protection and mitigation measures</u>

- 17. The activity should not result in CO₂ release and temperature rise and add to micro climate alternations.
- 18. The proponent shall ensure that the activities undertaken do not result in carbon emission, and temperature rise, in the area.
- 19. The proponent shall ensure that Monitoring is carried out with reference to the quantum of particulate matter during excavation; blasting; material transport and also from cutting waste dumps and haul roads.

Soil Environment - Protection and mitigation measures

- 20. The proponent shall ensure that the operations do not result in loss of soil biological properties and nutrients.
- 21. The proponent shall ensure that activity does not deplete the indigenous soil seed bank and disturb the mycorrizal fungi, soil organism, soil community nor result in eutrophication of soil and water.
- 22. The activities should not disturb the soil properties and seed and plant growth. Soil amendments as required to be carried out, to improve soil health.
- 23. Bio remediation using microorganisms should be carried out to restore the soil environment to enable carbon sequestration.
- 24. The proponent shall ensure that the mine restoration is done using mycorrizal VAM, vermin-composting, Biofertilizers to ensure soil health and biodiversity conservation.
- 25. The proponent shall ensure that the topsoil is protected and used in planting activities in the area.
- 26. The proponent shall ensure that topsoil to be utilized for site restoration and Green belt alone within the proposed area.

MEMBER SECRETARY

MEMBER

27. The top soil shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geotextile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.

Noise Environment - Protection and mitigation measures

- 28. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- 29. The sound at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Hence, the PP shall ensure that the biological clock of the villages are not disturbed because of the mining activity.

Biodiversity - Protection and mitigation measures

- 30. The proponent should ensure that there is no disturbance to the agriculture plantations, social forestry plantations, waste lands, forests, sanctuary or national parks. There should be no impact on the land, water, soil and biological environment and other natural resources due to the mining activities.
- 31. No trees in the area should be removed and all the trees numbered and protected. In case trees fall within the proposed quarry site the trees may be transplanted in the Greenbelt zone. The proponent shall ensure that the activities in no way result in disturbance to forest and trees in vicinity. The proponent shall ensure that the activity does not disturb the movement of grazing animals and free ranging wildlife. The proponent shall ensure that the activity does not disturb the biodiversity, the flora & fauna in the ecosystem. The proponent shall ensure that the activity does not result in invasion by invasive alien species. The proponent shall ensure that the activities do not disturb the resident and migratory birds. The proponent shall ensure that the activities do not disturb the vegetation and wildlife in the adjoining reserve forests and areas around.
- 32. The proponent shall ensure that the activities do not disturb the agro biodiversity and agro farms. Actions to be taken to promote agroforestry, mixed plants to support biodiversity conservation in the mine restoration effort.
- 33. The proponent shall ensure that all mitigation measures listed in the EIA/EMP are taken to protect the biodiversity and natural resources in the area.

MEMBER SECRETARY

MEMBER

34. The proponent shall ensure that the activities do not impact green lands/grazing fields of all types surrounding the mine lease area which are food source for the grazing cattle.

Climate Change

- 35. The project activity should not in any way impact the climate and lead to a rise in temperature.
- 36. There should be least disturbance to landscape resulting in land use change, contamination and alteration of soil profiles leading to Climate Change.
- 37. Intensive mining activity should not add to temperature rise and global warming.
- 38. Operations should not result in GHG releases and extra power consumption leading to Climate Change.
- 39. Mining through operational efficiency, better electrification, energy use, solar usage, use of renewable energy should try to decarbonize the operations.
- 40. Mining Operation should not result in droughts, floods and water stress, and shortages, affecting water security both on site and in the vicinity.
- 41. Mining should not result in water loss from evaporation, leaks and wastage and should support to improve the ground water.
- 42. Mining activity should be flood proof with designs and the drainage, pumping techniques shall ensure climate-proofing and socio-economic wellbeing in the area and vicinity.

Green Belt Development

- 43. The proponent shall ensure that in the green belt development more indigenous trees species (Appendix as per the SEAC Minutes) are planted.
- 44. The proponent shall ensure the area is restored and rehabilitated with native trees as recommended in SEAC Minutes (in Appendix).

Workers and their protection

- 45. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.
- 46. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.
- 47. The workers shall be employed for working in the mines and the working hours and the wages shall be implemented/enforced as per the Mines Act, 1952.

MEMBER SECRETARY

MEMBER

Transportation

- 48. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a bypass road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
- 49. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

Storage of wastes

50. The project proponent shall store/dump the granite waste generated within the earmarked area of the project site for mine closure as per the approved mining plan.

CER/EMP

- 51. The CER Should be fully Implemented and fact reflected in the Half-yearly compliance report.
- 52. The EMP Shall also be implemented in consultation with local self-government institutions.
- 53. The follow-up action on the implementation of CER Shall be included in the compliance report.

MEMBER SECRETARY

MEMBER

CHAIRMAN

Directions for Reclamation of mine sites

- 54. The mining closure plan should strictly adhere to appropriate soil rehabilitation measures to ensure ecological stability of the area. Reclamation/Restoration of the mine site should ensure that the Geotechnical, physical, chemical properties are sustainable that the soil structure composition is buildup, during the process of restoration.
- 55. The proponent shall ensure that the mine closure plan is followed as per the mining plan and the mine restoration should be done with native species, and site restored to near original status. The proponent shall ensure that the area is ecologically restored to conserve the ecosystems and ensure flow of goods and services.
- 56. A crucial factor for success of reclamation site is to select sustainable species to enable develop a self-sustaining eco system. Species selected should easily establish, grow rapidly, and possess good crown and preferably be native species. Species to be planted in the boundary of project site should be un palatable for cattle's/ goats and should have proven capacity to add leaf-litter to soil and decompose. The species planted should be adaptable to the site conditions. Should be preferably pioneer species, deciduous in nature to allow maximum leaf-litter, have deep root system, fix atmospheric nitrogen and improve soil productivity. Species selected should have the ability to tolerate altered pit and toxicity of and site. They should be capable of meeting requirement of local people in regard to fuel fodder and should be able to attract bird, bees and butterflies. The species should be planted in mixed association.
- 57. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.
- 58. Top soil with a mix of beneficial microbes (Bacteria/Fungi) to be used for reclamation of mine spoils. AM Fungi (Arbuscular mycorrhizal fungi), plant growth promoting Rhizo Bacteria and nitrogen fixing bacteria to be utilized.
- 59. Soil and moisture conservation and water harvesting structures to be used where ever possible for early amelioration and restoration of site.
- 60. Top soil is most important for successful rehabilitation of mined sites. Topsoil contains majority of seeds and plant propagation, soil microorganism, Organic matter and plant nutrients. Wherever possible the topsoil should be immediately used in the area of the for land form reconstruction, to pre mining conditions.

MEMBER SECRETARY

MEMBER

- 61. Over burdens may be analyzed and tested for soil characteristics and used in the site for revegetation. Wherever possible seeds, rhizome, bulbs, etc of pioneering spices should be collected, preserved and used in restoring the site.
- 62. Native grasses seeds may be used as colonizers and soil binders, to prevent erosion and allow diverse self- sustaining plant communities to establish. Grasses may offer superior tolerance to drought, and climatic stresses.
- 63. Reclamation involves planned topographical reconstruction of site. Care to be taken to minimize erosion and runoff. Topsoils should have necessary physical, chemicals, ecological, properties and therefore should be stored with precautions and utilized for reclamation process. Stocked topsoil should be stabilized using grasses to protect from wind. Seeds of various indigenous and local species may be broad casted after topsoil and treated overburden are spread.
- 64. Alkaline soils, acidic soils, Saline soils should be suitably treated/amended using green manure, mulches, farmyard manure to increase organic carbon. The efforts should be taken to landscape and use the land post mining. The EMP and mine closure plan should provide adequate budget for re-establishing the site to pre-mining conditions. Effective steps should be taken for utilization of over burden. Mine waste to be used for backfilling, reclamation, restoration, and rehabilitation of the terrain without affecting the drainage and water regimes. The rate of rehabilitation should be similar to rate of mining. The land disturbed should be reshaped for long term use. Mining should be as far as possible be ecofriendly. Integration of rehabilitation strategies with mining plan will enable speedy restoration.
- 65. Efforts should to taken to aesthetically improve the mine site. Generally, there are two approaches to restoration i.e Ecological approach which allows tolerant species to establish following the succession process allowing pioneer species to establish. The other approach i.e plantation approach is with selected native species are planted. A blend of both methods may be resorted to restore the site by adding soil humas and mycorrhiza.
- 66. Action taken for restoration of the site should be specifically mentioned in the EC compliances.

Annexure 'B'

Cluster Management Committee

1. Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry.

MEMBER SECRETARY

MEMBER

- 2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc.,
- 3. The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines.
- 4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network.
- 5. The committee shall deliberate on risk management plan pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan.
- 6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail.
- 7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.
- 8. The committee shall furnish the Emergency Management plan within the cluster.
- 9. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public.
- 10. The committee shall furnish an action plan to achieve sustainable development goals with reference to water, sanitation & safety.
- 11. The committee shall furnish the fire safety and evacuation plan in the case of fire accidents.

Impact study of mining

- 12. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area covering the entire mine lease period as per precise area communication order issued from reputed research institutions on the following
 - a) Soil health & soil biological, physical land chemical features.
 - 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.

MEMBER SECRETARY

MEMBER

h) Sediment geochemistry in the surface streams.

Agriculture & Agro-Biodiversity

- 13. Impact on surrounding agricultural fields around the proposed mining Area.
- 14. Impact on soil flora & vegetation around the project site.
- 15. Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.
- 16. The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.
- 17. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
- 18. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.

Forests

- 19. The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife.
- 20. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.
- 21. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.
- 22. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.

Water Environment

- 23. 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 entire mine lease period.
- 24. Erosion Control measures.
- 25. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.

MEMBER SECRETARY

MEMBER

/₩/√ CHAIRMAN SEIAA-TN

- 26. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.
- 27. The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.
- 28. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.
- 29. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
- 30. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.

Energy

31. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished.

Climate Change

- 32. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities.
- 33. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock.

Mine Closure Plan

34. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.

EMP

- 35. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued.
- 36. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.

Risk Assessment

37. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.

Disaster Management Plan

MEMBER SECRETARY

MEMBER

38. 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 covering the entire mine lease period as per precise area communication order issued.

Others

- 39. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.
- 40. 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 address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.
- 41. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impacts of plastic & microplastics on aquatic environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.

MEMBER SECRETARY

MEMBER