

Agenda No. 129-07:

(File No. 6739/2019)

Proposed Rough Stone and Gravel quarry for over an Extent of 4.51.5 hectare of Patta lands in S.F.Nos.54/4B (P), 55/1A, 55/1B, 55/3, 55/2, 54/4A, 54/3B, 41/2A3 (P), 54/2,41/2A1(P) and 41/2A2, of Melapaluvur Village, Ariyalur Taluk and District in the state of Tamil Nadu by Tvl. KNR Constructions Limited – For Environment Clearance.

(SIA/TN/MIN/31903/2019) dated: 26.02.2019

The proposal was placed in the 127th SEAC Meeting held on 15.03.2019. The project proponent gave detailed presentation. The salient features of the project and the environmental impact assessment as presented by the proponent are as follows:

1. Government order/ Lease details:

The Quarry lease was applied in the name of TVL. KNR CONSTRUCTIONS LIMITED, Ariyalur District, Precise Area Communication letter was issued by the Districts Collector, Ariyalur vide R.c.No. 252/G&M/2018, dated 03.01.2019 for a period of five years. It is a Fresh lease Rough Stone and Gravel quarry for over an Extent of 4.51.5 hectare of Patta lands in S.F.Nos.54/4B(P), 55/1A, 55/1B, 55/3, 55/2, 54/4A, 54/3B, 41/2A3(P), 54/2,41/2A1(P) and 41/2A2, of Melapaluvur Village, Ariyalur Taluk and District.

2. Mining Plan/Scheme of Mining approval details:

Mining plan was prepared for the period of Five years. The Mining Plan was got approval from the Deputy Director, Department of Geology and Mining, Ariyalur vide Rc. No, 252/G&M/2018 dated 31.01.2019 for the period of five years.

3. As per the Department of Geology and Mining, Ariyalur District, Mining plan approved for the 5 years, the production schedule for 5 years states that the total quantity of Rough stone should not exceed 4,94,905m³ and Gravel 55826 m³.

For First year - Rough stone - 1,78,480 m³ and Gravel - 39011 m³

For Second year - Rough stone - 1,78,091 m³ and Gravel-10089 m³


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For Third year - Rough stone- 45,541 m³ and Gravel-6726 m³

For Fourth year - Rough stone-45,946 m³

For Fifth year - Rough stone -46,847m³

4. The waste (Topsoil + Weathered Rock) that will be resulting in the quarrying operation for the 5 years $15,120 \text{ m}^3 + 37,097 \text{ m}^3 = 52,217 \text{ m}^3$.
5. The depth of the quarry will be 25m below the ground level. The ultimate pit dimension 169m (length) x 179m (width) x 25m (depth).
6. The water table is found to be at the depth of 40m in summer and 37m in rainy season.
7. Quarrying operation will be by Opencast Semi Mechanized Method with (Jackhammer) drilling and blasting.
8. Rough stone is to be transported by tippers of 5 Nos (5/10 T capacity).

The SEAC noted the following:

1. The Proponent, Tvl. KNR Constructions Limited has applied for EC to SEIAA-TN on 12.03.2019 for the Proposed Rough Stone and Gravel quarry for over an Extent of 4.51.5 hectare of Patta lands in S.F.Nos.54/4B (P), 55/1A, 55/1B, 55/3, 55/2, 54/4A, 54/3B, 41/2A3(P), 54/2,41/2A1(P) and 41/2A2, of Melapaluvur Village, Ariyalur Taluk and District, Tamilnadu.
2. The project/activity is covered under Category "B" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation made by the proponent and the documents furnished, the SEAC decided to direct the proponent to furnish the following details:

- 1.Karaivetti bird sanctuary is located at distances of 7.2 km from the project site. As per MoEF&CC guidelines the project proponent shall submit the acknowledgement of the application submitted to Nation Board for Wild Life clearances. SEAC directed the project proponent to submit the same.
- 2.The Detail mining closure plan for the proposed project shall be shall be submitted.
3. The countour level of the proposed quarry site shall be studied and the same shall be furnished to SEIAA.
- 4.The hydro geological study shall be conducted on the report shall be furnished.

5.The proposal for CER as per the Office Memorandum of MoEF & CC dated 01.05.2018 shall be furnished.



6.A detail report on the safety and health aspects of the workers and for the surrounding habitants during operation of mining for drilling and blasting shall be submitted.

6.The details of quantity of blasting material stored and used in the premises.


On receipt of the above details, SEAC will decide the further course of action on the proposal.

The project has furnished the details on 08.04.2019 to SEIAA-TN. The proposal was placed in the 129th SEAC meeting held on 17.05.2019. After perusal of the details furnished by the project proponent. The SEAC decided to recommend the proposal for grant of Environment Clearances to SEIAA subject to normal condition in addition to following conditions:

1. The prior clearance from Forestry & Wild Life angle including clearance from obtaining committee of the National Board for Wild life as applicable shall be obtained before starting the quarrying operation since the project site is located within 10KM from Karaivetti bird sanctuary.
2. The proponent proposes to adopt blasting in the mining operation. The proponent shall carry out controlled blasting operation in the mine.
3. Occupational Health & Safety: The proponent should take all measures to protect the safety and health of the people likely to work in the mining project.
4. The waste generated should be dumped in the area allocated (within Lease area) for dumping purpose ensuring its stability of slope.
5. The proponent shall appoint the statutory personnel in the mines as per the provisions of Mines Act, 1952 and MMR, 1961.
6. Detail mining closure plan for the proposed project shall be prepared keeping in view of restoring to original environment at the maximum extent possible submitted before placing the subject to SEIAA.
7. The proposal for CER as per the Office Memorandum of MoEF & CC dated 01.05.2018 shall be furnished before placing the subject to SEIAA.


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8. The proponent has reported that maximum quarrying operation will be 42.5m and ground water depth will be 45-50m. There will be no intersection of ground water due to the quarrying operation. However, the recharge & other ground water geological settings will be completely altered including the possibilities of subsidence in the nearby area. Hence, the committee decided that the proponent should carry out the hydro geological study report and the corresponding EMP may be submitted before placing the subject to SEIAA.
9. Transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village road.
10. The Project Proponent shall comply the mining and other relevant rules and regulations where ever applicable.
11. 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 monitored by the District Authorities.
12. The recommendation for the issue of environmental clearance is subject to the outcome of the Hon'ble NGT, Principle Bench, New Delhi O.A No.186 of 2016 (M.A.No.350/2016) and O.A. No.200/2016 and O.A.No.580/ 2016 (M.A.No.1182 /2016) and O.A.No.102/2017 and O.A.No.404/ 2016 (M.A.No. 758/2016, M.A. No. 920 /2016, M.A.No.1122/2016, M.A.No. 12/2017 & M.A.No.843/2017) and O.A.No.405/2016 and O.A.No.520 of 2016 (M.A.No.981/2016, M.A.No.982/2016 & M.A.No.384/2017),
13. The entire mining operation should be as per the guidelines for sustainable sand mining issued in 2016 by the MoEF & CC, Gol, New Delhi.
14. To ensure safety measures along the boundary of the quarry site, security guards are to be engaged during the entire period of mining operation.

S.No	Name	Designation	Signature
1	Dr. S. Mohan	Chairman	
2	Thiru D. Sekar	Member Secretary	