

concentrated plant since the said waste proposed to dump into the mined out void.

Agenda No. 123-18:

Proposed Garnet Sand Mine over an extent of 4.90.0 ha by M/s. Riverways Mines and Minerals Ltd, for Garnet sand production of 1776 Tonnes for a period of 5 years at S.F.No. 390 (Part) in Kottathur Village, Musiri Taluk, Trichy District - Activity 1(a) - Mining of major mineral - ToR to be issued - Regarding

(SIA/TN/MIN/ 21946/2018)

The project proposal was placed in the 105th meeting of the SEAC held on 22.03.2018. In this regard, the SEAC learnt that the Government of Tamil Nadu has issued ban orders relating to the mining operations of Garnet, Illuminite, Rutile, etc in various parts of the state of Tamil Nadu including Tiruchirapalli vide G.O. (Ms) No.173, Industries (MMD.1) Department dated: 17.09.2013. Hence, SEAC decided that the proposal cannot be considered for appraisal.

The above minutes was communicated to the proponent vide SEIAA letter dated: 23.03.2018. The proponent requested to re-appraise the proposal vide letter dated 02.04.2018. In content of the letter the proponent has not indicated any new grounds based on which the SEAC might re-appraise the project proposal. Hence, the SEAC decided to stick to its original decision - not to consider the proposal for appraisal.



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In this Connection, the SEIAA was requested to the Additional Chief Secretary to Government, Industrial Department to furnish present stage of Ban Orders on the mining of major mineral vide this office letter.No.SEIAA-TN/F.No.6509/2018 dated: 21.05.2018. A reply was received from the Additional Chief Secretary to Government, Industrial Department vide letter No.6751/MMD.1/2018-2 dated: 20.07.2018, it is informed that the cases which are related to illegal mining of Beach sand Minerals in the state of Tamil Nadu from the existing mining lease and stoppage of mining operations, are still pending before the Hon'ble High Court of Madras. They are not connected to fresh grant of mining lease by the Government. In G.O.(Ms).No.112, Industries (MMD.1) Department dated: 22.09.2017 orders were issued for granting of mining leases to M/S. S.S. Minerals and Riverways Mines and Minerals based on the Court order dated: 15.03.2017.

The proposal was placed in the 123rd SEAC Meeting held on 22.12.2018. The project proponent gave a detailed presentation on the salient features of the project details as follow.

The Government of Tamil Nadu sanctioned the grant of fresh mining lease for Garnet sand over an extent of 4.90.0 Ha in S.F.Nos.390 (part) of Kottathur village, Musiri Taluk, Trichy district, Tamil Nadu G.O.(3D) No.69 dated 27.12.2010 to Tvl.Riverways mines and minerals Ltd.

Since Garnet is a major mineral and the lease area is less than 100 Ha, this project falls under category B1 as per MOEF & CC notification.

Form1, Feasibility Report and ToR is prepared in line with the guidelines issued by MoEF&CC, vide their letter dated 30 December 2010 towards obtaining


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environmental clearance for G.O.(3D) No.69 with lease area of 4.90.0 Ha for a peak production capacity of 1776 Tonnes of Garnet ROM for obtaining TOR from SEIAA, Tamil Nadu.

The mining plan was submitted and approved by IBM vide letter No.TN/TCR/MP/GNT1855.MDS dated: 28.05.2013.

The applied mining lease area (G.O.(3D).69 of extent - 4.90.0 Ha) is located in Kottathur village, Musiri taluk, Trichy District, Tamil Nadu. The entire mine lease is Government Eri Poramboke land with an average elevation of 121m-124m from MSL. This area falls in Survey of India Toposheet No. 58 I/12 between latitude N 11°06.081' to 11°06.230' N and longitude E 78°39.832' to 78°40.953' E. The area is accessible from Kottattur to Puttanampatti road which is connected to SH-142. The nearest railway station is Trichy RS located at 33 km in S.

The mining lease area and the 10 km buffer zone is devoid of declared ecologically sensitive features like national parks, biospheres, sanctuaries, etc. No forest land is involved in the lease area.

The area also does not come under CRZ category.

Further, there is no perennial river or streams passing through the lease area. Uppar river - 1.3 km - SE, Gundar Nadi - 9.5km - W of the lease area. The lease area is almost a flat terrain ranging with an average elevation of 121m-124m from MSL. Sattanur RF - 800 m - SW, Ragalavadi RF - 3.9 km - SW, Kottatur RF - 2.4km - NE, Pulivalam RF - 7.3 km - SW, Omandur RF - 4.2 km - S, Vellakkalpat RF - 5.5 km - SE, Edumalai RF - 7.4 km - SE, Kurichi malai RF - 4.9 km - NW, Palamalai RF - 9.0 km - N and Nakkasalem RF - 7.8km - NE are located from the lease area.

The geological reserve is estimated as 40078 Tonnes and the mineable reserve is estimated to be 20736 Tonnes. The quantity of top soil expected is around 12050 Tonnes for the entire life of the mine. Top soil will be dumped all along the boundary barriers for afforestation purpose.

On commencement of mining activity detailed exploration will be carried out which may further enhance the mineable reserves quantity. The proposed peak production from this lease is 1776 Tonnes of garnet ROM per annum. The life of the mine is anticipated to be 12 years. However, the life of the mine may increase in case of increased reserves availability, subsequent to future exploration.

The mining is proposed to carry out by open cast method. No deep hole drilling, excavation, blasting or bore holing will be carried out. The depth of mining proposed is up to 2m. The mined Garnet ROM will be directly loaded in to trucks /tippers manually or occasionally by front end loaders for transportation to the mineral pre-concentration plant.

The 1st year is proposed to carry out exploration. The depth of mining is proposed to be 1.0m during the II, III, IV & V years for the plan period.

The mined garnet rich stream sediments will be transported to the pre-concentration plant for separation of garnet sand. The waste generated from the pre-concentration plant will be backfilled in the mined out void.

The proposed lease area is 4.90.0Ha. At the end of the plan period, 0.75.00Ha will be under quarry area, 0.02Ha will be under mine roads and 4.13.00Ha will be left undisturbed. Ultimately, after leaving the necessary 7.5m safety distance all around the mine periphery the remaining 4.25.10 Ha will be



covered with quarry area. The waste from the processing plant will be back filled in the mined out pits. 0.64.90Ha will be left unutilized.

This is a proposed project. Common site services (for all 5 leases) like mine office, first aid room, rest shelters, toilets etc. will be provided as semi-permanent structures.

The total water requirement for all the ML operation in the 5 leases is 6cu.m including 1.0cu.m for domestic purposes, 5.0 cu.m for dust suppression and afforestation. All the equipment will be diesel operated. No electricity is needed for mining operation. The minimum power requirement for office, etc will be met from state grid.

The capital cost for this project is estimated to be Rs. 10.0 lakhs which includes combined departmental mining machineries, utility, infrastructure etc.

The proponent will implement good CSR activities based on the needs of the people in the locality. As per company's act, 2% of the net profit will be spent for CSR activities every year.

Based on the presentation made by the project proponent and the documents furnished for the project of Garnet Sand deposits (GO (3D) No 69) by M/s. Tvl.Riverways Mines and Minerals Ltd over an Extent of 4.90.0 Ha at S.F.No 390(P) of Kottathur village, Musiri Taluk, Trichy District, Tamil Nadu under Schedule S.No. 1(a) of Category "B" - the committee decided to defer the proposal for want of following details:

1. The proponent shall come with the presentation for conducting Cumulative EIA Study. Considering the other 4 quarries are adjacent to



this quarry namely, M/S. S.S. Minerals & other 3 Riverways Mines and Minerals which are adjacent to each other in the same survey Number of S.F.No 390(P) of Kottathur village, Musiri Taluk, Trichy District, Tamil Nadu.

2. The Executive Engineer, PWD, Tiruchirapalli in his letter.No.RC V3/Ko 35/ 2002 dated 15.04.2002 has recommended to grant mining lease for a period of three years and further he stated that the same may be renewed periodically once in three years . Hence, the committee has directed the proponent to obtain a fresh No Objection Certificate and Technical feasibility for mining of Garnets in this tank area (i.e. water body) from the competent authority.
3. The proponent shall furnish the scientific proof to ensure the non hazardous nature of the waste generated from the mineral pre-concentrated plant since the said waste proposed to dump into the mined out void.

Agenda No. 123-19:

Proposed Garnet Sand Mine over an extent of 4.75.0 ha by M/s. Riverways Mines and Minerals Ltd, for Garnet sand production of 2500 Tonnes for a period of 5 years at S.F.No. 390 (Part) in Kottathur Village, Musiri Taluk, Trichy District - Activity 1(a) - Mining of major mineral - ToR to be issued - Regarding

(SIA/TN/MIN/ 21942/2018)



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