

STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of the Meeting of 243th State Expert Appraisal Committee (SEAC) held on 04th February 2022 (Friday) at SEIAA Conference hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for Appraisal of Building and Construction Projects, Townships and Area Development projects & Mining projects through online and offline mode

Agenda No:243 -01

(File No: 8449/2021)

Proposed Rough Stone, Jelly and Gravel Quarry lease area over an extent of 1.49.5 Ha located at S.F. No,447/1, & 448/3, Melathattaparai Village, Thoothukudi District, Tamil Nadu by Thiru.I.Sankaralingam - For Environmental Clearance.

SIA/TN/MIN/158198/2020 dated: 17.06.2020

The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh. nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.I.Sankaralingam has applied for Environmental Clearance for the proposed Rough Stone Jelly & Gravel quarry over an extent of 1.49.5 Ha located at S.F. No,447/1, & 448/3, Melathattaparai Village, Thoothukudi Taluk & District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The Production during 1. Mine plan period of 5 years - 91365 m³ Rough Stone and 18537 m³ Gravel 2. Depth of mining- 35m BGL (2+3+30) and Ground water table - 35m to 40m from ground profile.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


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1. 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 and revised CER as below, before placing the subject to SEIAA.
2. As accepted by the Project Proponent the revised CER cost is Rs. 5 lakhs and the amount shall be spent for activities of (1) construction/renovation of Girls toilet with 24/7 water facility, (2) providing free supply of sanitary napkins for three months to adult girl students through the Headmaster, (3) installation of incinerator in the Girls toilet for safe disposal of sanitary napkins and (4) tree plantation (see Annexure II) in school in consultation with concerned Government school HM located in Melathattaparai before obtaining CTO from TNPCB.

Agenda No:243 -02

(File No: 8538/2021)

Proposed Multi Colour Granite quarry over an extent of 1.21.0 Ha located at S.F. No.496/2B(P), Arasiramani Bit-II Village, Sankari Taluk Salem District, Tamil Nadu by Thiru. V.Ragupathy - For Environmental Clearance.

SIA/TN/MIN/204391/2021 dated: 20.03.2021

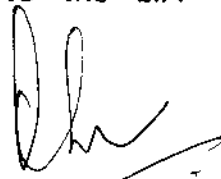
The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. V.Ragupathy has applied for Environmental Clearance for the proposed Multi Colour Granite quarry over an extent of 1.21.0 Ha located at S.F. No.496/2B(P), Arasiramani Bit-II Village, Sankari Taluk Salem District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.


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3. Production during Mine plan period-9024 m³ of Granite with a Ultimate Pit Limit for the Mining plan period of 5 years is 30m from above ground level and Ground water table -62m to 64m depth below the ground level.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the standard conditions as per Annexure I of this minutes & normal conditions stipulated by MOEF &CC in addition to the following specific conditions:

1. The project proponent shall furnish the certified compliance report on the existing Environmental Clearance issued, either from MoEF&CC/TNPCB to SEIAA before placing the subject to SEIAA.
2. 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 and revised CER as below shall be furnished before placing the subject to SEIAA.
3. As accepted by the Project Proponent the revised CER cost is Rs. 5 lakhs and the amount shall be spent for activities of (1) construction/renovation of Girls toilet with 24/7 water facility, (2) providing free supply of sanitary napkins for three months to adult girl students through the Headmaster, (3) installation of incinerator in the Girls toilet for safe disposal of sanitary napkins and (4) tree plantation (see Annexure II) in school in consultation with concerned Government school HM located in Arasiramani Bit-II Village before obtaining CTO from TNPCB.

Agenda No:243 -03

(File No: 8607/2021)

Proposed Rough Stone & Gravel quarry over an extent of 2.02.34Ha located at S.F. No, 1853/1D2&1853/1D3 Gangaikondan Part-I Village, Tirunelveli Taluk, Tamil Nadu by Thiru. R.P.Dass - For Environmental Clearance.

SIA/TN/MIN/ 216202/2021 dated:02.07.2021


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The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. R.P.Dass has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry over an extent of 2.02.34Ha located at S.F. No, 1853/1D2&1853/1D3 Gangaikondan PArt-I Village, Tirunelveli Taluk, District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The Production during in Mine plan period of 5 years - Rough Stone - 1,31,920m³ & Gravel - 37,085m³ 2. The ultimate depth of Mining 35m (below ground level)

Based on the presentation and documents furnished by the project proponent, SEAC noted that Gangaikondan Spotted Deer Sanctuary is located at 1.8 Km (NE) from the lease area and 0.91km from the Eco Sensitive Zone as per Notification S.O. 2773(E)dated 31.07.2019 of MOEF & CC and Talaiyattu RF is located 0.4km in SW direction. The Committee felt that the proposed mining activity is close to the Eco Sensitive Zone and mining activity will affect the endangered species, wildlife and flora & fauna. The Committee, therefore, decided not to recommend the project proposal.

Agenda No:243 -04


(File No: 8627/2021)

Proposed Gravel Quarry over an extent of 0.78.50 Ha located at S.F.No . 230/2, Venkatasamudram Village Ambur Taluk, Tiruppathur District - Tamil Nadu by Thiru.K.Bakthavachalam - For Environmental Clearance.

SIA/TN/MIN/217980/2021 dated: 07.07.2021


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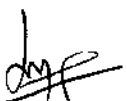
The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh. nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.K.Bakthavachalam has applied for Environmental Clearance for the proposed Gravel Quarry over an extent of 0.78.50 Ha located at S.F.No . 230/2, Venkatasamudram Village Ambur Taluk, Tiruppathur District, Tamil Nadu .
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification,2006.
3. The Production in Mine plan period of 5 years – Gravel – 10,064m³ and the ultimate depth of Mining 2m below ground level

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the standard conditions as Annexure I of this minutes & normal conditions stipulated by MOEF &CC in addition to the following specific conditions:

1. The operation of the quarry should not affect the agricultural activities and transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road.
2. 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 and revised CER as below shall be furnished before placing the subject to SEIAA.
3. As accepted by the Project Proponent the revised CER cost is Rs. 1 lakh and the amount shall be spent for activities of (1) construction/renovation of Girls toilet with 24/7 water facility, (2) providing free supply of sanitary napkins for three months to adult girl students through the Headmaster, (3) installation of incinerator in the Girls toilet for safe disposal of sanitary napkins and (4) tree


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plantation (see Annexure II) in school in consultation with concerned Government school HM located in Venkatasamudram Village before obtaining CTO from TNPCB.

Agenda No:243 -05

(File No: 8628/2021)

Proposed Rough stone Quarry over an extent of 2.70.00 Ha located at S.F.No . 471/1, Chockkalingapuram Village Melur Taluk, Madurai District - Tamil Nadu by Thiru. G.Karuppanan - For Environmental Clearance.

SIA/TN/MIN/217978/2021 dated: 04.07.2021

The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh. nic.in).

The SEAC noted the following:

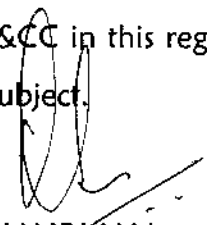
1. The project proponent, Thiru. G.Karuppanan has applied for Environmental Clearance for the proposed Rough stone Quarry over an extent of 2.70.00 Ha located in Govt promboke at S.F.No . 471/1, Chockkalingapuram Village Melur Taluk, Madurai District,Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification,2006.
3. The Production in Mine plan period of 5 years – Rough Stone – 3,28,975m³ The ultimate depth of Mining 45m.

Based on the discussion and document furnished by the project proponent, SEAC noted that the Ministry of Mines, Govt vide order Dt: 03.06.2020 has issued certain guideline for auction of minerals block for pre - embedded clearance for mining project. This proposal also is in the Govt promboke land.

Earlier, SEAC has sought a clarification through SEIAA to MoEF&CC in this regard and the same is awaited. Hence the SEAC decided to defer this subject.


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Agenda No:243 -06

(File No: 8662/2021)

Proposed Rough Stone & Gravel quarry over an extent of 2.21.0 Ha located at S.F. No, 92/1B Sillaraipuravu Village, Tenkasi Taluk, Tenkasi District Tamil Nadu by Thiru.MohanK.Philip - For Environmental Clearance.

SI/TN/MIN 219928/2021 dated: 20.07.2021

The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh. nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.MohanK.Philip has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry over an extent of 2.21.0 Ha located at S.F. No, 92/1B Sillaraipuravu Village, Tenkasi Taluk, Tenkasi District, Tamil Nadu .
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The Production in Mine plan period of 5 years – Rough Stone – 2,48,060m³ & Gravel – 39,690m³ The ultimate depth of Mining 33.0m Ground Level.

Based on the presentation and documents furnished by the project proponent, SEAC noted that the lease area is 1.5 Km from the Nellai wildlife Sanctuary boundary as per MOEF Final Notification S.O. 2794(E) dated 02.08.2019 of MOEF & CC.

The Committee felt that the proposed mining activity is closed to the Eco Sensitive Zone and mining activity will affect the habitation in Nellai wildlife Sanctuary. The Committee, therefore, decided not to recommend the project proposal.


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Agenda No:243 -7

(File No: 8663/2021)

Proposed Rough Stone and Gravel Quarry lease area over an extent of 1.69.5 Ha located at S.F. No, 242/2, 242/3, 242/4, 242/5 & 242/6 Chennimalai Village, Perundurai Taluk, Erode District, Tamil Nadu by Thiru.S.Saminathan - For Environmental Clearance.

SIA/TN/MIN/221379/2021 dated: 23.07.2021

The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent Thiru.S.Saminathan has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease area over an extent of 1.69.5 Ha located at S.F. No, 242/2, 242/3, 242/4, 242/5 & 242/6 Chennimalai Village, Perundurai Taluk, Erode District – Tamil Nadu.
2. The project/activity is covered under Category “B2” of Item 1 (a) “Mining of Minerals Projects” of the Schedule to the EIA Notification,2006.
3. The production quantity approved in the mining plan for 5 years - 120600m³ of Rough Stone. Approved mine pit depth 53m(3m Gravel + 50m Rough stone). Ground water level – 65m – 60m from ground profile.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the standard conditions as Annexure I of this minutes & normal conditions stipulated by MOEF &CC in addition to the following specific conditions:

1. The project proponent shall furnish the certified compliance report on the existing Environmental Clearance issued, either from MoEF&CC/TNPGB to SEIAA before placing the subject to SEIAA.


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2. 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 and revised CER as below shall be furnished before placing the subject to SEIAA.
3. As accepted by the Project Proponent the revised CER cost is Rs. 5 lakhs and the amount shall be spent for activities of (1) construction/renovation of Girls toilet with 24/7 water facility, (2) providing free supply of sanitary napkins for three months to adult girl students through the Headmaster, (3) installation of incinerator in the Girls toilet for safe disposal of sanitary napkins and (4) tree plantation (see Annexure II) in school in consultation with concerned Government school HM located in Chennimalai Village before obtaining CTO from TNPCB.

Agenda No:243 -8.

(File No: 8677/2021)

Proposed Rough Stone and Gravel Quarry lease area over an extent of 1.14.0Ha located at S.F. No,1125/3,Kothur Village, Natrampalli Taluk, Thirupattur District Tamil Nadu by Tmt.S.Rohin- For Environmental Clearance.

SIA/TN/MIN/221762/2021dated:27.07.2021.

The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh. nic.in).

The SEAC noted the following:

1. The project proponent Tmt.S.Rohini has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease area over an extent of 1.14.0Ha located at S.F. No,1125/3,Kothur Village, Natrampalli Taluk, Thirupattur District – Tamil Nadu.
2. The project/activity is covered under Category “B2” of Item 1 (a) “Mining of Minerals Projects” of the Schedule to the EIA Notification,2006.
3. The production quantity approved in the mining plan for 5 years - -


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4. Rough Stone – 60,021cbm & Gravel – 16,200cbm & the ultimate depth of Mining 15m Ground Level

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the standard conditions as per Annexure I of this minutes & normal conditions stipulated by MOEF & CC in addition to the following specific 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 and revised CER as below shall be furnished before placing the subject to SEIAA.
2. As accepted by the Project Proponent the revised CER cost is Rs. 5 lakhs and the amount shall be spent for activities of (1) construction/renovation of Girls toilet with 24/7 water facility, (2) providing free supply of sanitary napkins for three months to adult girl students through the Headmaster, (3) installation of incinerator in the Girls toilet for safe disposal of sanitary napkins and (4) tree plantation in school (see Annexure II) in consultation with concerned Government school HM located in Kothur Village before obtaining CTO from TNPCB.

Agenda No:243 -9.

(File No: 8678/2021)

Proposed Rough Stone and Gravel Quarry lease area over an extent of 2.02.50Ha of S.F. No,1125/2,Kothur, Village,Natrampalli Taluk, Thirupattur District, Tamil Nadu by Thiru.R.Santhakumar- For Environmental Clearance.

(SIA/TN/MIN/221777/2021dated:27.07.2021)

The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh. nic.in).

The SEAC noted the following:


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1. The project proponent, Thiru.R.Santhakumar has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease area over an extent of 2.02.50Ha of S.F. No.1125/2,Kothur, Village,Natrampalli Taluk. Thirupattur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification,2006.
3. The production for the five years states that the total quantity of recoverable as 100,570Cbm of rough stone & 36,608Cbm of gravel upto a depth of 50m (40m above ground level & 10 m below ground level).

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the standard conditions as per Annexure I of this minutes & normal conditions stipulated by MOEF &CC in addition to the following specific conditions:

1. The Project proponent shall provide the common boundary with the adjacent mining activity.
2. The project proponent shall obtain the permission from Director of mine safety for trail blasting before starting the production.
3. Since the two quarries are located in adjacent, the project proponent shall conduct a scientific study for impact on vibration causing during blasting before starting the production.
4. The first class mines manager shall be appointed before starting the production.
5. 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 and revised CER as below shall be furnished before placing the subject to SEIAA.
6. As accepted by the Project Proponent the revised CER cost is Rs. 5 lakhs and the amount shall be spent for activities of (1) construction/renovation of Girls toilet with 24/7 water facility, (2) providing free supply of sanitary napkins for three months to adult girl students through the Headmaster, (3) installation of incinerator in the Girls toilet for safe disposal of sanitary napkins and (4) tree


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plantation (see Annexure II) in school in consultation with concerned Government school HM located in the nearby area before obtaining CTO from TNPCB.

Agenda No:243 -10.

(File No: 8682/2021)

Proposed Black Granite Quarry lease area over an extent of 4.54.0 Ha of S.F. No, 281(Part) Gopinathampatty Village, Harur Taluk, Dharmapuri District, Tamil Nadu by Thiru.D.Mathiazhagan - For Environmental Clearance.

(SIA SIA/TN/MIN/221879/2021 dated: 27.07.2021)

The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.D.Mathiazhagan has applied for Environmental Clearance for the proposed Black Granite quarry lease area over an extent of 4.54.0Ha of S.F. No, 281(Part) Gopinathampatty Village, Harur Taluk, Dharmapuri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The production for the five years states that the total quantity of recoverable reserves@5% 3124m³ upto a depth of 24m below ground level.

Based on the discussion and document furnished by the project proponent, SEAC noted that the Ministry of Mines. Gol vide order Dt: 03.06.2020 has issued certain guideline for auction of minerals block for pre - embedded clearance for mining project. This proposal also is in the Govt promboke land.

Earlier, SEAC has sought a clarification through SEIAA to MoEF&CC in this regard and the same is awaited. Hence the SEAC decided to defer this subject.


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Agenda No:243 -11.

(File No: 8684/2021)

Proposed Rough Stone & Gravel quarry over an extent of 1.92.0Ha located at S.F.No, 191/8A1A, 191/8B, 191/10A & 191/10C Kondampatti Village, Kinathukadavu Taluk, Coimbatore District by Tmt.R.Maheswari For Environmental Clearance.

SIA/TN/MIN/222286/2021 dated: 29.07.2021

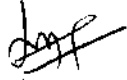
The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tmt.R.Maheswari, has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry over an extent of 1.92.0Ha located at S.F. No, 191/8A1A, 191/8B, 191/10A & 191/10C Kondampatti Village, Kinathukadavu Taluk, Coimbatore, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Production quantity approved in the Mining plan for Five years – 123525 m³ of Rough Stone, Weathered Rock- 17,442 m³ & 17,004 m³ of Gravel with a approved depth of mining: 19 m and Ground water level: 65m-60 m BGL

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the standard conditions as per Annexure I of this minutes & normal conditions stipulated by MOEF &CC in addition to the following specific 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 and revised CER as below shall be furnished before placing the subject to SEIAA
2. As accepted by the Project Proponent the revised CER cost is Rs. 5 lakhs and the amount shall be spent for activities of (1) construction/renovation of Girls toilet with 24/7 water facility, (2) providing free supply of sanitary napkins for three months to adult girl students through the Headmaster, (3) installation of


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incinerator in the Girls toilet for safe disposal of sanitary napkins and (4) tree plantation in school (see Annexure II) in consultation with concerned Government school HM located in Kondampatti Village before obtaining CTO from TNPCB.

Agenda No:243 -12.

(File No: 8694/2021)

Proposed Rough Stone & Gravel quarry over an extent of 1.02.0 Ha located at S.F. No.370/1, 370/3 & 380/3 Adagappadi Village, Dharmapuri Taluk & District by Thiru.K.Arulkumar - For Environmental Clearance.
SIA/TN/MIN/222851/2021 dated:02.08.2021

The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.K.Arulkumar has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry over an extent of 1.02.0 Ha located at S.F. No.370/1, 370/3 & 380/3 Adagappadi Village, Dharmapuri Taluk & District - Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The production for the five years states that the total quantity of recoverable as Five years - 70040 m³ of Rough Stone & 41,040 m³ of Gravel with a ultimate depth 25m (10m AGL & 15m BGL) and ground water table 57m to 62m.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the standard conditions as per Annexure I of this minutes & normal conditions stipulated by MOEF & CC in addition to the following specific conditions:


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1. Restricting the depth of mining from 25m to 20 m (10m AGL & 10m BGL of Rough stone) ultimate depth and quantity of 59640 cu.m of Rough stone & 41040cu.m of Gravel for five years with a bench height of 5m as per the approved mining plan considering the hydrogeological regime of the surrounding area.
2. 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 and revised CER as below shall be furnished before placing the subject to SEIAA.
3. As accepted by the Project Proponent the revised CER cost is Rs. 5 lakhs and the amount shall be spent for activities of (1) construction/renovation of Girls toilet with 24/7 water facility, (2) providing free supply of sanitary napkins for three months to adult girl students through the Headmaster, (3) installation of incinerator in the Girls toilet for safe disposal of sanitary napkins and (4) tree plantation (see Annexure II) in school in consultation with concerned Government school HM located in Adagappadi Village before obtaining CTO from TNPCB.

Agenda No:243 -13.

(File No: 8713/2021)

Proposed Rough Stone quarry over an extent of 1.00.0 Ha located at S.F. No. 352/5 (Part) Devannagoundanur Village, Sankari Taluk Salem District by

Thiru.S.K.Senthilkumar - For Environmental Clearance.

SIA/TN/MIN/224250/2021 dated:11.08.2021

The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh. nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.S.K.Senthilkumar has applied for Environmental Clearance for the proposed Rough Stone quarry over an extent of 1.00.0 Ha in Govt promboke land located at S.F. No. 352/5 (Part) Devannagoundanur Village, Sankari Taluk Salem - Tamil Nadu.


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

3. The Production quantity approved in the mining plan for 5 years - 162130m³ of Rough Stone. Approved mine pit depth 21m(11m AGL + 10m BGL). Ground water level – 63 m from ground level.

Based on the discussion and document furnished by the project proponent. SEAC noted that the Ministry of Mines. Govt order Dt: 03.06.2020 has issued certain guideline for auction of minerals block for pre - embedded clearance for mining project. This proposal also is in the Govt promboke land.

Earlier, SEAC has sought a clarification through SEIAA to MoEF&CC in this regard and the same is awaited. Hence the SEAC decided to defer this subject.

Agenda No:243 -14.

(File No: 8714/2021)

Proposed Rough Stone, Jelly and Gravel Quarry lease area over an extent of 4.96.0Ha of S.F.Nos. 678/1(P), 678/2(P), 678/3(P) and 679(P) of idaigal part-II Village, Ambasamudram Taluk, Tirunelveli District, Tamil Nadu by TMT.P.Glory bai- For Environmental Clearance.

(SIA/TN/MIN/224272/2021, dated: 13/08/2021)

The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, TMT.P.Glorybai has applied for Environmental Clearance for the proposed Rough Stone, Jelly and Gravel quarry lease area over an extent of 4.96.0Ha of S.F.Nos. 678/1(P), 678/2(P), 678/3(P) and 679(P) of Idaigal part-II Village, Ambasamudram Taluk, Tirunelveli District, Tamil Nadu.


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

3. The production for the five years states that the total quantity of recoverable as 12,22,185m³ of rough stone, 41,086m³ of weathered rock & 84,660m³ of gravel upto a depth of 48m below ground level.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the standard conditions as per Annexure I of this minutes & normal conditions stipulated by MOEF & CC in addition to the following specific 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 and revised CER shall be furnished before placing the subject to SEIAA.
2. As accepted by the Project Proponent the revised CER cost is Rs. 10 lakhs and the amount shall be spent for activities of (1) construction/renovation of Girls toilet with 24/7 water facility, (2) providing free supply of sanitary napkins for three months to adult girl students through the Headmaster, (3) installation of incinerator in the Girls toilet for safe disposal of sanitary napkins and (4) tree plantation (see Annexure II) in school in consultation with concerned Government school HM located in Idaigal Village before obtaining CTO from TNPCB.

Agenda No:243 -15.

(File No: 8718/2021)

Proposed Rough Stone and Gravel quarry lease area over an extent of 2.38.5Ha of patta lands in S.F.No. 23/3A of Pottaiyandipurambu Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru.R. Balakrishnan- For Environmental Clearance.

(SIA/TN/MIN/224180/2021, dated: 11/08/2021)


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The proposal was placed for appraisal in this 243rd meeting of SEAC held on 04.02.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

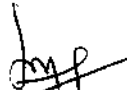
1. The project proponent, Thiru.R.Balakrishnan has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease area over an extent of 2.38.5Ha of patta lands in S.F.No. 23/3A of Pottaiyandipurambu Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The production for the five years states that the total quantity of recoverable as 55,868m³ of rough stone & 5,550m³ of gravel upto a depth of 32m below ground level.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the standard conditions as per Annexure I of this minutes & normal conditions stipulated by MOEF & CC in addition to the following specific 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 and

revised CER as below shall be furnished before placing the subject to SEIAA.

2. As accepted by the Project Proponent the revised CER cost is Rs. 5 lakhs and the amount shall be spent for activities of (1) construction/renovation of Girls toilet with 24/7 water facility, (2) providing free supply of sanitary napkins for three months to adult girl students through the Headmaster, (3) installation of incinerator in the Girls toilet for safe disposal of sanitary napkins and (4) tree plantation (see Annexure II) in school in consultation with concerned


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Government school HM located in Pottaiyandipurambu Village before obtaining CTO from TNPCB.

Other discussions

Agenda No:243 -16

Discussion regarding the Guidelines for auction of mineral blocks with re-embedded clearances for mining projects issued by Government of India Ministry of Mines on 3.6.2021

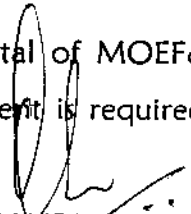
Government of India, Ministry of Mines in its letter No. 16/4/2020-M.VI dated 3rd June, 2020 had issued certain guidelines directing State Governments to get pre-embedded clearances for the mines which are ready for auction to promote ease of doing business in the mining sector. In this regard, the Ministry of Mines issued the following guidelines to the States:

1. Each State should identify at least five mineral blocks for auction with pre-embedded clearance.
2. The State Government may set up a Project Monitoring Unit (PMU) to complete the preparatory work for obtaining the requisite clearances / approvals and related work. The PMU will become the applicant for all the clearances required to start the mining operations.
3. Since Mining Plan is the basic document to start mining operation on which hinges the EC and FC, the PMU under the State Government should get the Mining Plan prepared by engaging a qualified person (QP) as per the revised proforma prescribed by Indian Bureau of Mines which is attached with this document.

The PMU should approach the Indian Bureau of Mines for approval of such mining plan/scheme of mining. Indian Bureau of Mines will approve the mining plan/scheme of mining submitted to them by the PMU within a period of fifteen days, allowing successful bidder the flexibility to either enhance or reduce the production limit by 25%.


4. FC has two stages. Details are available on the PARIVESH portal of MOEF&CC (<https://parivesh.nic.in>). Up to FC Stage-1, no financial commitment is required or


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levy is to be paid, except for bearing the cost of enumeration of trees on forest land sought for diversion and some sundry expenses. High costs are involved at FC stage-II. It is understood that PMU may not be able to deposit huge sums on account of NPV, compensatory afforestation, cost of trees and other related levies and charges as applicable in FC Stage-II. Hence, PMU will obtain FC stage-I only. And, the successful bidder will make payments accordingly and obtain FC Stage-II. Expenditure including demarcation of land and enumeration of trees etc. shall be initially borne by the State Government and subsequently recouped by charging from the successful bidder at the time of execution of mining lease or transfer of clearance, whichever is earlier.

5. For EC, the PMU will complete the process and obtain the same along with FC Stage-I. Any expenditure involved in the processes including payments to EIA consultant, cost of getting Environment Public Hearing conducted and other related expenses will be initially borne by the State Government and subsequently recouped by charging the same from the successful bidder at the time of signing mining lease or transfer of clearance, whichever is earlier.
6. The PMU should simultaneously obtain EC and prior approval for FC Stage -I clearance for diversion of forest land for non-forest purpose for the operation of mining as per the guidelines issued by MoEF & CC dated 29.04.2020. While giving EC, there should be flexibility for the successful bidder to either enhance or reduce production limit by 25%, without requiring him to obtain fresh EC approval.
7. Since obtaining land rights for mining is another time consuming process, the PMU should get the land rights for mining in case of both government as well as privately owned land.
8. The State government should also apply and obtain all other clearances which are required for the lessee to start the mining operations. The fees for obtaining these clearances shall also be initially borne by State Government and subsequently recouped by charging it from successful bidder at the time of signing mining lease or transfer of clearances, whichever is earlier.


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9. Appropriate provisions should be made in the bid document for auction for charging from the successful bidder all the expenditure incurred by the State Government on account of the engagement of PMU and also for obtaining clearances / approvals.
10. The above clearances may be transferred to the successful bidder seamlessly so that mining operations start without any delay.

Following this up, MOEF&CC has also issued guidelines on 29.04.2020 stating that State governments can apply as the project proponent for obtaining EC/FC and subsequently transfer clearances to the successful bidder.

In view of the above orders, SEAC decided to refer the above office memorandum of MoEF&CC to SEIAA for clarification as to whether proposals that do not follow 'mining zones' with pre-embedded EC can be taken up for appraisal. Pending clarifications, all such cases were deferred.

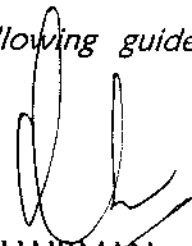
The Member Secretary, SEIAA-TN issued a clarification vide SEIAA Lr. No. SEIAA-TN/SEAC Communications/2020 dated: 24.06.2021, where the following clarification was issued.

"I invite kind your attention to above subject, where a lot of representations have been brought to the notice of recently from the proponents regarding the Applicability of per-embedded prior Environmental/Forest Clearance for mining projects - Auctioning of mineral blocks with per-embedded prior Environmental/Forest Clearance for the identified mineral block with proven reserves (proposed mining lease areas).

As per Ministry of Mines, Letter No. 161412020-M.VI Dated: 3rd June, 2020, the Ministry of Mines, Gol has addressed the Chief Secretaries of all States with a direction stating that the State Government to follow the guidelines for pre-embedded clearances annexed with this order and implement the same in letter and spirit and the States should implement this mechanism on pilot basis in respect of identified mineral blocks, which could be auctioned with pre-embedded clearances and issued following guidelines among others:



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The State Government may set up a Project Monitoring Unit (PMU) to complete the preparatory work for obtaining the requisite clearances / approvals and related work. The PMU will become the applicant for all the clearances required to start the mining operations.

Since the mining Plan is the basic document to start mining operation on which hinges the EC and FC, the PMU under the State Government should get the Mining plan prepared by engaging a qualified person (QP) as per the revised proforma prescribed by Indian Bureau of Mines, the PMU should approach the Indian Bureau of Mines for approval of such mining plan/scheme of mining. Indian Bureau of Mines will approve the mining plan/scheme of mining submitted to them by the PMU within a period of fifteen days, allowing successful bidder the flexibility to either enhance or reduce the production limit by 25%.

From the point (ii) above, it clear that the above guidelines for the pre-embedded clearance is applicable only for major minerals, since the Guidelines states that Project Monitoring Unit (PMU) should approach the Indian Bureau of Mines for approval of such mining plan/scheme of mining - IBM approves mining plan/scheme of mining of major minerals, whereas the mining plans are approved by Department of Geology and mining/State Government for minor minerals. Hence it is requested that the revaluation applications may be appraised accordingly."

However, the previous committee felt that SEIAA may get further clarification from MoEF&CC in this regard applicability of Ministry of Mines order Dt. 3.6.2020 for minor minerals. In tern the SEIAA-TN vide Ir 6.10.2021 has sought a clarification from MoEF&CC and the same is awaited.


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The Committee noted that in view of the decision of the previous Committee to seek clarification from MOEF&CC through SEIAA, many proposals are kept pending leading to delays which goes against the very purpose of the guidelines to bring about ease of doing business and to speed up clearances. The present Committee decided to examine the issue de novo and made the following observations.

1. The guidelines are meant to speed up the process of obtaining EC in respect of government owned lands by obtaining pre-embedded EC and transferring the EC to the successful bidders, thereby eliminating the need to obtain separate EC by the bidders.
2. The guidelines, by their very nature, are applicable to large extent of government lands meant to be leased out for mining operations.
3. The guidelines are applicable to major minerals and not for minor minerals as clarified by SEIAA.
4. The cases before SEIAA are not large extent of mining areas but are isolated government land.

Considering all the above factors, the Committee unanimously decided that the project proposals which are pending before this SEAC with respect to this OM shall be taken up for appraisal after getting the concurrence of SEIAA.


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ANNEXURE - I

1. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
5. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.


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


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proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner

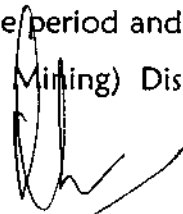
13. **Noise and Vibration Related:** (i) The Proponent shall carry out only the Controlled Blasting operation using NONEL shock tube initiation system during daytime. Usage of other initiation systems such as detonating cord/fuse, safety fuse, ordinary detonators, cord relays, should be avoided in the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


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16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
17. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
21. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District



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Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.

24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
25. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
26. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
27. The recommendation for the issue of environmental clearance is subject to the outcome of the Hon'ble NGT, Principal Bench, New Delhi in 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).


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Annexure - II

List of Native Trees Suggested for Planting

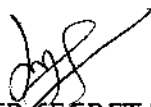
1. *Aegle marmelos* – Vilvam
2. *Adenaanthera pavonina* - Manjadi
3. *Albizia lebbeck* – Vaagai
4. *Albizia amara* - Usil
5. *Bauhinia purpurea* - Mantharai
6. *Bauhinia racemosa* - Aathi
7. *Bauhinia tomentosa* – Iruvathi
8. *Buchanania aillaris* - Kattuma
9. *Borassus flabellifer* - Panai
10. *Butea monosperma* - Murukka maram
11. *Bobax ceiba* – Ilavu, Sevvilavu
12. *Calophyllum inophyllum* - Punnai
13. *Cassia fistula* - Sarakondrai
14. *Cassia roxburghii*- Sengondrai
15. *Chloroxylon sweitenia* - Purasa maram
16. *Cochlospermum religiosum* – Kongu, Manjal Ilavu
17. *Cordia dichotoma* – Mookuchali maram
18. *Creteva adansonii* – Mavalingum
19. *Dillenia indica* – Uva, Uzha
20. *Dillenia pentagyna* – Siru Uva, Sitruzha
21. *Diospyros ebenum* - Karungali
22. *Diospyros chloroxylon* - Vaganai
23. *Ficus amplissima* – Kal Itchi
24. *Hibiscus tiliaceous* – Aatru poovarasu
25. *Hardwickia binata* – Aacha


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26. *Holoptelia integrifolia* - Aayili
27. *Lannea coromandelica* - Odhiam
28. *Lagerstroemia speciosa* - Poo Marudhu
29. *Lepisanthus tetraphylla* - Neikottai maram
30. *Limonia acidissima* - Vila maram
31. *Litsea glutinosa* -Pisin pattai
32. *Madhuca longifolia* - Illuppai
33. *Manilkara hexandra* - Ulakkai Paalai
34. *Mimusops elengi* - Magizha maram
35. *Mitragyna parvifolia* - Kadambu
36. *Morinda pubescens* - Nuna
37. *Morinda citrifolia* - Vellai Nuna
38. *Phoenix sylvestre* - Eachai
39. *Pongamia pinnata* - Pungam
40. *Premna mollissima* - Munnai
41. *Premna serratifolia* - Narumunnai
42. *Premna tomentosa* - Purangai Naari, Pudanga Naari
43. *Prosopis cinerea* - Vanni maram
44. *Pterocarpus marsupium* - Vengai
45. *Pterospermum canescens* - Vennangu, Tada
46. *Pterospermum xylocarpum* - Polavu
47. *Puthranjiva roxburghii* - Puthranjivi
48. *Salvadora persica* - Ugaa Maram
49. *Sapindus emarginatus* - Manipungan, Soapu kai
50. *Saraca asoca* - Asoca
51. *Streblus asper* - Piraya maram
52. *Strychnos nuxvomica* - Yetti
53. *Strychnos potatorum* - Therthang Kottai
54. *Syzygium cumini* - Naval
55. *Terminalia bellerica* - Thandri

- 56. *Terminalia arjuna* - Ven marudhu
- 57. *Toona ciliate* - Sandhana vembu
- 58. *Thespesia populnea* - Puvarasu
- 59. *Walsura trifoliata* - valsura
- 60. *Wrightia tinctoria* - Vep


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