

State Expert Appraisal Committee (SEAC)

Minutes of 437th meeting of the State Expert Appraisal Committee (SEAC) held on 04.01.2024 (Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building & Construction projects, Metallurgical Industries and Mining projects.

Confirmation of Earlier Minutes

The minutes of the 436th SEAC meeting held on 29.12.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 437 - 01

File No: 10573/2023

Proposed Integrated 4GW Solar cell and Module Manufacturing plant at SF. Nos: 1641 pt, 1474 pt, 1475, 1476, 1477 pt, 1478 pt, 1479, 1480, 1481 pt, 1495 pt, 1642 pt, 1901 pt, 1903 pt, 1904 pt, 1905 pt, 1906 pt, 1907 pt, 1908, 1909, 1910 pt, 1911, 1912 pt, 1913 pt, 1914 pt, 1915 pt, 1916 pt, 1917 pt, 1922 pt, 1923 pt, 1924 pt, 1925 pt, 1926 pt, 1927 pt, 1931 pt, 1919 pt, 1921 pt (Plot No. A104, A105, A106, A107 & A108, A109) at SIPCOT Industrial park of Gangaikondan Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by M/s. TP Solar Limited- For Terms of Reference.

(SIA/TN/INFRA2/454338/2023, Dated:05.12.2023)

Earlier the proposal was placed in the 432nd SEAC meeting held on 20.12.2023. The SEAC 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.

The details of the project furnished by the proponent are available in the website. (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. TP Solar Limited has applied for Terms of Reference for the Proposed Integrated 4GW Solar cell and Module Manufacturing plant at SF. Nos: 1641 pt, 1474 pt, 1475, 1476, 1477 pt, 1478 pt, 1479, 1480, 1481 pt.


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1495 pt, 1642 pt, 1901 pt, 1903 pt, 1904 pt, 1905 pt, 1906 pt, 1907 pt, 1908, 1909, 1910 pt, 1911, 1912 pt, 1913 pt, 1914 pt, 1915 pt, 1916 pt, 1917 pt, 1922 pt, 1923 pt, 1924 pt, 1925 pt, 1926 pt, 1927 pt, 1931 pt, 1919 pt, 1921 pt (Plot No. A104, A105, A106, A107 & A108, A109) at SIPCOT Industrial park of Gangaikondan Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu.

2. The project activity is covered under Category "B1" of Item 8(b) "Township & Area Development projects" of the Schedule to the EIA Notification, 2006.
3. Complaints received against the unit regarding illegally commenced its new industry construction in Gangaikondan postal limit, Tirunelveli District without obtaining prior EC from SEIAA.
4. Hon`ble Madras High Court Judgement dated 28.11.2023 in its W.M.P (MD) No. 26531 of 2023 stated that,

"M/s.T.P.Solar Limited shall within one week from today apply to the State Level Environmental Assessment Authority for environmental clearance and the said State Level Environmental Assessment Authority shall take a decision on the application of the respondent M/s.T.P.Solar Limited for environmental clearance within four weeks from the date of receipt of the application".

5. Based on the above judgement, the PP applied ToR to SEIAA.

The proposal was again placed in the 436th SEAC Meeting held on 29.12.2023. The SEAC noted the PP requested time. Hence the committee decided to defer the proposal. Now the proposal was placed in the 437th SEAC Meeting held on 04.01.2024. The SEAC noted the PP has requested for additional time. Hence the Committee decided to defer the proposal.

Agenda No: 437 - 02

(File No.9561/2023)

Proposed Rough Stone and gravel quarry lease over an extent 4.36.5 Ha at S.F.No.293/1 (P), 293/3(P) 293/4(P), 294/2B & 295/1 (P) of Karudayampalayam Village, Pugalur Taluk, Karur district, Tamil Nadu by M/s. Sri Ganeshmurugan Blue Metals - For Environmental Clearance. (SIA/TN/MIN/450375/2023 dated 30.10.2023)

The proposal was placed for appraisal in the 437th Meeting of SEAC held on


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SEAC -TN

2


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SEAC -TN

04.01.2024. 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, M/s. Sri Ganeshmurugan Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone and gravel quarry lease over an extent 4.36.5 Ha at S.F.No.293/1 (P), 293/3(P) 293/4(P), 294/2B & 295/1 (P) of Karudayampalayam Village, Pugalur Taluk, Karur district, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, the proponent has obtained EC from DEIAA vide Lr.No.DEIAA-DIA/TN/MIN/8442/2017-KRR Ec.No.81/2017/Mines, dated 14.10.2017. The lease was executed between 23.10.2017 to 22.10.2022.
4. Now, the proponent has submitted an application seeking approval for next scheme of mining.
5. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9561/SEAC/ToR-1358/ Dated.10.02.2023 as the proposal falls under 'B1' category.
6. Public hearing was conducted on 25.08.2023.
7. Baseline Monitoring period October – December 2022.
8. EIA Report submitted in the PARIVESH Portal on 30.10.2023.
9. The proponent furnished a Certified Compliance Report E.P/12.1/2022-23/SEIAA/213/TN/1403 dated.23.12.2022 obtained from IRO, Chennai for the earlier EC dated.14.10.2017 granted by DEIAA.
10. The other salient features of the proposal are as follows:

File No.		9561/2023	Category	B1
		450375/2023		1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	M/s. Sri Ganeshmurugan Blue metals, S.F. No. 268, Pudukanalli,		


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		Pugalur Taluk, Karur District – 639 002.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Rough Stone and Gravel Quarry	
3.	S.F Nos. of the quarry site	: 293/1 (P), 293/3(P) 293/4(P), 294/2B & 295/1 (P)	
4.	Village in which situated	: Karudayampalayam	
5.	Taluk in which situated	: Pugalur	
6.	District in which situated	: Karur	
7.	Extent of quarry (in ha.)	: 4.36.5 Ha	
8.	Latitude & Longitude of all corners of the quarry site	: 10°56'38.60" N to 10°56'47.10" N 77°57'59.49"E to 77°58'9.97" E	
9.	Topo Sheet No.	: 58 F/13	
10.	Type of mining	: Opencast Semi-Mechanized Mining	
11.	Life of Project	: 5 years	
	Lease Period	: 5 years	
	Mining Plan Period	: 5 years	
12.	Mining Plan Details	: As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	: Rough Stone – 18,04,625m ³	-
		: Gravel – 12,824m ³	-
	Mirable Resources m ³ (RoM)	: Rough Stone – 5,69,584m ³	Rough Stone m ³ – 5,07,019m ³
		: Gravel - 4118m ³	-
	Annual Peak Production in m ³	: Rough Stone – 1,25,065m ³	-
		: Gravel - 2288m ³	-
Maximum Depth in meters	: 54m BGL	44m BGL	
13.	Depth of water table	: 60-65m	


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SEAC -TN

4

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SEAC- TN


14.	Man Power requirement per day:	: 14 Nos.	
15.	Water requirement: 1. Drinking & Domestic 2. Dust suppression 3. Green belt	: 4.0 KLD 2.5 KLD 0.5KLD 1.0 KLD	
16.	Power requirement	: 4,56,357 liters of HSD for 5 years.	
17.	Precise area communication approved by the Deputy Director, Dept. of G&M	: Rc.No.332/Mines/2022, Dated:19.10.2022.	
18.	Mining Plan approved by Deputy Director, Dept. of Geology & Mining.	: Rc.No.332/Mines/2022, Dated:07.11.2022.	
19.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining.	: Rc.No.332/Mines/2022, Dated:07.11.2022.	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated:09.11.2022.	
21.	Project Cost (excluding EMP cost)	: Rs. 49,49,975/-	
22.	EC Recommendation	: Validity	30 years subject to the following upper limits.
		: Max Total RoM in m ³	Rough stone - 5,07,019m ³ Gravel - 4118 m ³
		: Annual Max RoM in m ³	Rough stone - 1,25,065m ³ Gravel - 2288 m ³
		: Max Depth in mtrs	44m BGL


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SEAC - TN


5


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23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 82.80 Lakhs Recurring Cost – Rs. 5.07 Lakhs
24.	CER cost (in Rs. Lakhs).	:	Rs. 5 Lakhs

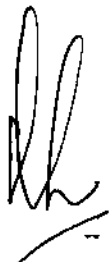
Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 1,25,065m³ of Rough stone & 4118m³ of gravel by restricting the ultimate depth of mining up to 44m below ground level and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 3) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The PP shall send the Notice of Opening and the details on the appointment of a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 to the Regional inspector of Mines (DMS), Chennai Region before obtaining the CTO from the TNPCB and a copy of such appointment shall be sent to the AD (Mines) at the time of lease execution without fail.
- 5) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the


MEMBER SECRETARY
SEAC -TN

6

CHAIRMAN
SEAC- TN



concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.

- 6) Considering the village/highway roads are located within 300m from the lease boundary, the PP shall carry out the small-scale blasting involving 30 to 40 holes in a round at a time with keeping the total aggregate explosive charge/round is limited to 2 kg only in accordance with the provisions of MMR 1961.
- 7) However, since the structures and village roads are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 9) The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 10) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at either side of the National Highway (NH-67) & Village road


MEMBER SECRETARY
SEAC -TN

7



CHAIRMAN
SEAC-TN

(@distance of 500 m) by ensuring that no vehicles are allowed to pass through the road and all persons within such area have taken proper shelter during the blasting.

- 11) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall within a period six months from the commencement of mining operation after obtaining the prior permission from the DMS/Chennai Region, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 12) The PP shall only carry out the blasting operation involving only the NONEL (or) Electronic Detonator initiation system for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 13) Considering the cluster of quarries are located, the PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
- 14) As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of


MEMBER SECRETARY
SEAC -TN

8


CHAIRMAN
SEAC- TN

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

- 15) The PP shall annually carry out an Occupational Health Survey (OHS) in accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations(NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 16) Within a period of six months from the commencement of mining operation, the PP shall install a Disaster Management Cell with prior approval obtained from the DMS/Chennai Region for carrying out the continuous monitoring activities in related to the slopes of the quarry walls and other mining components as observed by the DGMS, Chennai Region.
- 17) As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and the amount shall be spent towards Panchayat Union Middle School, Thathampalayam Village for the activities as committed before obtaining CTO from TNPCB.

Agenda No: 437 - 03

(File No.9772/2023)


Proposed Rough Stone and gravel quarry lease over an extent 2.10.5 Ha at S.F.Nos.16/6, 16/7, 16/9 & 16/10 of Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu by Thiru. G. Arjunan - For Environmental Clearance.

(SIA/TN/MIN/450434/2023 dated:30.10.2023)

The proposal was placed for appraisal in the 437th Meeting of SEAC held on 04.01.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


MEMBER SECRETARY
SEAC -TN

9


CHAIRMAN
SEAC- TN

The SEAC noted the following:

1. The project proponent, **Thiru. G. Arjunan** has applied for Environmental Clearance for the Proposed Rough Stone and gravel quarry lease over an extent 2.10.5 Ha at S.F.Nos.16/6, 16/7, 16/9 & 16/10 of Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9772/SEAC/ToR-1467/ Dated.31.05.2023 as the proposal falls under 'B1' category.
4. It is an existing quarry which was previously operated by Mrs.S.Nandhini during the period 2015-2020.
5. Public hearing was conducted on 20.09.2023.
6. Baseline Monitoring period March – May 2023.
7. EIA Report submitted in the PARIVESH Portal on 30.10.2023.
8. The salient features of the proposal are as follows:

File No	9772/2023		Category	B1
	450434/2023			1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. G. Arjunan, S/o. Govindasamy, No. 63, Drowpathi Amman Kovil Street, Thiruvakkarai Village, Vanur Taluk, Villupuram District – 604 304.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry	
3.	S.F Nos. of the quarry site	:	16/6, 16/7, 16/9 & 16/10	
4.	Village in which situated	:	Thollamur	
5.	Taluk in which situated	:	Vanur	


MEMBER SECRETARY
SEAC -TN

10

CHAIRMAN
SEAC- TN


6.	District in which situated	: Villupuram
7.	Extent of quarry (in ha.)	: 2.10.5 Ha
8.	Latitude & Longitude of all corners of the quarry site	: 12°3'18.23" N to 12°3'24.14" N 79°40'12.36"E to 79°40'19.01"E
9.	Topo Sheet No.	: 57-P/12
10.	Type of mining	: Opencast Semi-Mechanized Mining Method
11.	Life of the Project	: 5 years
	Lease Period	: 5 years
	Mining Plan Period	: 5 years
12.	Mining Plan Details	: As per approved Mining Plan
	Geological Resources m ³ (RoM)	: Rough Stone – 9,50,220m ³
		: Gravel – 1,63,980m ³
	Minal Resources m ³ (RoM)	: Rough Stone – 2,83,695m ³
		: Gravel – 1,14,764m ³
	Annual Peak Production in m ³	: Rough Stone – 71,400m ³
		: Gravel – 1,14,764m ³
Maximum Depth in meters	: 55m BGL	
13.	Depth of water table	: 60m - 65m
14.	Man Power requirement per day:	: 24 Nos.
15.	Water requirement:	: 17.66 KLD
	1. Drinking & Domestic	: 3.36 KLD
	2. Dust suppression	: 8.0 KLD
	3. Green belt	: 6.3 KLD
16.	Power requirement	: 2,46,090 liters of HSD



MEMBER SECRETARY
SEAC -TN

11


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SEAC- TN

17.	Precise area communication approved by the Deputy Director, Dept. of G&M	: Rc.No.334/Mines/2022 Dated: 21.12.2022.	
18.	Mining Plan approved by the Deputy Director, Dept. of Geology & Mining.	: Rc.No.A/G&M/334/2022 Dated:05.01.2023.	
19.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	: Rc.A/G&M/334/2022 Dated:05.01.2023.	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated:20.01.2023.	
21.	Project Cost (excluding EMP cost)	: 29,00,000/-	
22.	EC Recommendation	: Validity	30 years subject to the following upper limits.
		: Max Total RoM in m ³	Rough Stone – 2,66,415m ³ Gravel – 1,14,764m ³
		: Annual Max RoM in m ³	Rough Stone – 71,400m ³ Gravel – 1,14,764m ³
		: Max Depth in mtrs	22m BGL
23.	EMP cost (in Rs. Lakhs).	: Capital Cost – Rs. 48.13 Lakhs Recurring Cost – Rs. 3.89 Lakhs	
24.	CER cost (in Rs. Lakhs).	: Rs. 5 Lakhs.	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 71,400m³ of Rough stone & 1,14,764m³ of gravel by restricting the ultimate depth of mining up to 22m below ground level and



MEMBER SECRETARY
SEAC -TN

12

CHAIRMAN
SEAC- TN


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

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
- 3) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The PP shall appoint a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 before executing the lease and a copy of such appointment shall be sent to the DMS/Chennai Region atleast 30 days before the commencement of the mining operations without fail.
- 5) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 6) **Since the structures and village roads are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months** from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the


MEMBER SECRETARY
SEAC -TN

13


CHAIRMAN
SEAC- TN

blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 7) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 8) The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
- 9) Considering the village/highway roads are located within 300m from the lease boundary, the PP shall carry out the small scale blasting involving 30 to 40 holes in a round at a time with keeping the total aggregate explosive charge/round is limited to 2 kg only in accordance with the provisions of MMR 1961.
- 10) The PP shall only carry out the blasting operation involving only NONEL (or) Electronic Detonator initiation system for controlling the environmental impacts with keeping the security guards at either side of the National Highway (NH-67) & Village road (@distance of 500 m) by ensuring that no vehicles are allowed to pass through the road and all persons within the danger zone of 500 m have taken proper shelter during the blasting.
- 11) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3rd year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore,


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SEAC -TN

CHAIRMAN
SEAC- TN


Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

12) As accepted by the Project Proponent the CER cost is Rs. 5 Lakhs and the amount shall be spent towards Govt. School, Thollamur Village for the activities as committed before obtaining CTO from TNPCB.

Agenda No: 437 - 04

(File No.9814/2023)

Proposed Rough Stone and gravel quarry lease over an extent 4.74.50 Ha at S.F.No.223/1, 223/2, 224, 225/1 and 225/2 of Periyavenmani Village, Maduranthagam Taluk, Kancheepuram District, Tamil Nadu by M/s. PCS Industries Limited - For Environmental Clearance. (SIA/TN/MIN/450473/2023 dated:30.10.2023)

The proposal was placed for appraisal in the 437th Meeting of SEAC held on 04.01.2024. 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, M/s. PCS Industries Limited has applied for Environmental Clearance for the Proposed Rough Stone and gravel quarry lease over an extent 4.74.50 Ha at S.F.No.223/1, 223/2, 224, 225/1 and 225/2 of Periyavenmani Village, Maduranthagam Taluk, Kancheepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9814/SEAC/ToR-1461/ Dated.23.05.2023 as the proposal falls under 'B1' category.
4. Public hearing was conducted on 22.09.2023.
5. EIA Report submitted in the PARIVESH Portal on 30.10.2023.

Based on the presentation made by the proponent and the KML file uploaded in the


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15


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PARIVESH Portal, the Committee has observed the following features:

- i. The proposed mine lease is located surrounded by the lake/water bodies.
- ii. The proposed area seems to be already mined out by removing the top layer comprises of gravel formation.
- iii. The Hydrological study report prepared by the Dept of Geology, V.O. Chidambaram College, Thoothukudi was submitted by the PP and it states that
"...Unconsolidated & Semi-consolidated formations and Weathered, Fissured and Fractured rocks constitute the important aquifer systems in the area...."
"...Weathered, a fissured crack, shear zones and joints in the basement rock act as a good groundwater potential zone in the study area. The study area falls in the Maduranthagam block which is categorized as over-exploited zone as per G.O (MS) No 113 dated 09.06.2016...."
"....The rainwater captured during the rainy seasons are not in filtered / percolated in to the subsurface formations due to impermeable nature of the fresh/massive charnockitic formations...."
"....Based on geophysical study there is no observation of fractured zone/ fissure vein up to 60m of the study area. Hence, the quarrying rough stone for a depth of up to 60 meters from ground level will not have much impact in the area over groundwater conditions..."
- iv. The AD (Geology and Mining) vide his letter Rc. No. 588/Q3/2018, dated. 21.12.2023 has stated that
"...the records available in this office has been examined and found that the lease applied area in S.F. Nos. 223/1 (1.45.00), 223/2 (1.31.00), 224 (0.70.00), 225/1 (0.61.00) and 225/2 (0.67.50) over an exten of 4.74.50 Hecatres of patta land in Periyavenmani village, Maduranthagam Taluk, Chengalpattu District is Virgin land and no quarrying pit was found during as per the approval Mining Plan..."

Hence the Committee decided to request the SEIAA to write to the concerned AD (Mines) with a copy forwarded to the Commissioner of Geology and Mining, Chennai stating that the AD (Mines) shall inspect the site physically and furnish the following:


MEMBER SECRETARY
SEAC -TN

16

CHAIRMAN
SEAC- TN



- (i) The details on the existing site conditions and particulars of earlier quarrying operations to justify whether the site is fit for carrying out the quarrying operations in such vulnerable conditions.
- (ii) Existing pit dimension of the existing quarry against the Original dimension as specified precise area communication letter.
- (iii) Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
- (iv) Existing condition of Safety zone/benches as proposed in the approved Mining Plan.
- (v) Details of any penalties levied on the PP for any violation in the quarry operation by the Department of Geology and Mining.

On receipt of the same, further deliberations shall be carried out.

Hence, the proponent is advised to submit the details within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.

Agenda No: 437- 05

(File No: 8805/2021)


Proposed Rough Stone quarry lease over an extent of 1.76.5Ha at SF. Nos. 260/1A1, 260/1B1, 260/1C1 & 260/1D1 of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Tmt. G. Jagadeeswari - For Environmental Clearance.

(SIA/TN/MIN/452261/2023, Dated:14.11.2023)

The proposal was placed in 437th meeting of SEAC held on 04.01.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, Tmt.G.Jagadeeswari has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 1.76.5Ha at SF.Nos. 260/1A1, 260/1B1, 260/1C1 & 260/1D1 of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier EC Issued Vide - Lr.No.SEIAA-TN/F.No.3604/EC/1(a)/2691/2015


MEMBER SECRETARY
SEAC -TN

17

CHAIRMAN
SEAC- TN


dated:08.01.2016.

4. The PP stated that the earlier mining is done by her husband, and now he is not alive and hence she has requested to exempt her from submitting CCR. The committee decided to exempt the requirement of CCR in this proposal.

File No	8805/2021 SIA/TN/MIN/452261/2023, Dated:14.11.2023	Category	B1
Sl.No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Tmt.G.Jagadeeswari W/o.S.A.Ganesan (Late), No.12/4C, Arima Nagar, Sulur Taluk, Coimbatore District-641402.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone quarry
3.	S.F Nos. of the quarry site with area break-up	:	260/1A1, 260/1B1, 260/1C1 & 260/1D1
4.	Village in which situated	:	Pachapalayam
5.	Taluk in which situated	:	Sulur
6.	District in which situated	:	Coimbatore
7.	Extent of quarry (in ha.)	:	1.76.5Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°53' 28.09"N to 10°53'34.20"N 77°04'22.54"E to 77°04'25.72"E
9.	Topo Sheet No.	:	58-F/01
10.	Type of mining	:	Opencast mechanized mining
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan


MEMBER SECRETARY
SEAC -TN


18

CHAIRMAN
SEAC- TN


			Rough Stone	Topsoil
	Geological Resources m ³	:	4,27,412m ³	512m ³
	Minable Resources m ³	:	1,14,360m ³	-
	Annual Peak Production in m ³	:	34,250m ³	-
	Proposed Ultimate Depth in meters	:	62m BGL	
13.	Depth of water table	:	73m in summer season – 68m in rainybse BGL	
14.	Man Power requirement per day	:	18 Employees	
15.	Water requirement:	:	3.2 KLD	
	1. Drinking water		0.7 KLD	
	2. Dust suppression		1.5 KLD	
	3. Green belt		1.0 KLD	
16.	Power requirement	:	TNEB 91,488 liters of HSD for the Entire Period of life	
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Rc.No. 1645/Mines/2020, dated:03.08.2021.	
18.	Mining Plan approved by Assistant director, Department of G&M.	:	Rc.No. 1645/Mines/2020, dated:24.08.2021.	
19.	500m Cluster Letter approved by Assistant director, Department of G&M.	:	Rc.No. 1645/Mines/2020, dated:24.08.2021.	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 15.10.2021.	
21.	Project Cost (excluding EMP cost)	:	Rs. 38,73,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.


MEMBER SECRETARY
SEAC -TN

19

CHAIRMAN
SEAC- TN


			Rough Stone
		: Max Total in m ³	60,710m ³
		: Annual Max in m ³	12,220m ³
		: Ultimate Depth in mtrs	50m BGL
23.	EMP cost (in Rs. Lakh).	: Rs.103 Lakhs	
24.	CER cost (in Rs. Lakh).	: Rs.5 Lakhs	
25.	EIA report submitted on	: Dated:17.11.2023	
26.	ToR details	: Lr.No.SEIAA-TN/F.No.8805/ToR-1105/2021,Dated :21.03.2022.	
27.	Public hearing details	: Public hearing conducted on Dated:18.04.2023.	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 12,220m³ of Rough stone by maintaining the ultimate depth of mining up to 50m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the



MEMBER SECRETARY
SEAC -TN

20

CHAIRMAN
SEAC- TN


authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.

3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
4. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
5. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
6. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

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

7. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government Girls Higher Secondary School, Soolur, Coimbatore District before obtaining CTO from TNPCB.

Agenda No: 437- 06

(File No: 9520/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 4.38.0Ha at SF.Nos. 467/2, 3, 477/3,4,5 & 468/1 of A.P.Nadanur Village, Alangulam Taluk, Tenkasi District, Tamil Nadu by Thiru M.Mohamad Ismail - For Environmental Clearance.

(SIA/TN/MIN/448951/2023, Dated:18.10.2023)

The proposal was placed in 437th meeting of SEAC held on 04.01.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted the following

1. The Project Proponent, Thiru M.Mohamad Ismail has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 4.38.0Ha at SF.Nos. 467/2, 3, 477/3,4,5 & 468/1 of A.P.Nadanur Village, Alangulam Taluk, Tenkasi District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

File No	9520/2022	Category	B1
	SIA/TN/MIN/448951/2023, Dated:18.10.2023		
Sl.No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	Thiru M.Mohamad Ismail S/o,Mohamed Mahaboob. : No. 8/143, Main Road, Pottalpur, Tenkasi District.	


MEMBER SECRETARY
SEAC -TN

22

CHAIRMAN
SEAC- TN


2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel quarry		
3.	S.F Nos. of the quarry site with area break-up	:	467/2, 3, 477/3,4,5 & 468/1		
4.	Village in which situated	:	A.P.Nadanur		
5.	Taluk in which situated	:	Alangulam		
6.	District in which situated	:	Tenkasi		
7.	Extent of quarry (in ha.)	:	4.38.0Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	08°48' 08.86"N to 08°48'17.74"N 77°26'03.91"E to 77°26'12.39"E		
9.	Topo Sheet No.	:	58-H/05		
10.	Type of mining	:	Opencast semi mechanized mining		
11.	Life of Project	:	5 years		
	Lease Period	:	5 years		
	Mining Plan Period	:	5 years		
12.	Mining Plan Details	:	As per approved Mining Plan		
			Rough Stone	Gravel	Weathered rock
	Geological Resources m ³	:	19,70,685m ³	87,586m ³	2,18,965m ³
	Mineable Resources m ³	:	10,24,965m ³	76,944m ³	1,85,470m ³
	Annual Peak Production in m ³	:	2,53,680 m ³	92,800m ³	38,540m ³
	Proposed Ultimate Depth in meters	:	52m BGL (2.0m Gravel+ 5.0m weathered rock +45m Rough stone)		
13.	Depth of water table	:	58m in rainy season – 65m in summer season		
14.	Man Power requirement per day	:	20 Employees		
15.	Water requirement:	:	2.5 KLD		


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN

	1. Drinking water 2. Dust suppression 3. Green belt	0.5 KLD 1.0 KLD 1.0 KLD																			
16.	Power requirement	TNEB : 8,32,788 liters of HSD will be utilized for Entire project life.																			
17.	Precise area communication approved by the Assistant Director, Department of G&M.	Rc.No. M1/6695/2021, : Dated:09.04.2022.																			
18.	Mining Plan approved by Assistant Director, Department of G&M.	Rc.No. M1/6695/2021, : Dated:26.04.2022.																			
19.	500m Cluster Letter approved by Assistant Director, Department of G&M,	Rc.No. M1/6695/2021, : Dated:26.04.2022.																			
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Dated: 11.08.2022.																			
21.	Project Cost (excluding EMP cost)	: Rs. 81,54,000/-																			
22.	EC Recommendation	<table border="1"> <tr> <td rowspan="2">: Validity</td> <td colspan="3">30 years subject to the following upper limits.</td> </tr> <tr> <td>Rough Stone</td> <td>Gravel</td> <td>Weathered rock</td> </tr> <tr> <td>: Max Total in m³</td> <td>9,61,05 5 m³</td> <td>76,944 m³</td> <td>1,85,47 0m³</td> </tr> <tr> <td>: Annual Max in m³</td> <td>2,05,65 5 m³</td> <td>38,540 m³</td> <td>92,800 m³</td> </tr> <tr> <td>: Ultimate Depth in mtrs</td> <td colspan="3">47m BGL (2.0m Gravel+ 5.0m weathered rock +40m Rough stone)</td> </tr> </table>	: Validity	30 years subject to the following upper limits.			Rough Stone	Gravel	Weathered rock	: Max Total in m ³	9,61,05 5 m ³	76,944 m ³	1,85,47 0m ³	: Annual Max in m ³	2,05,65 5 m ³	38,540 m ³	92,800 m ³	: Ultimate Depth in mtrs	47m BGL (2.0m Gravel+ 5.0m weathered rock +40m Rough stone)		
: Validity	30 years subject to the following upper limits.																				
	Rough Stone	Gravel	Weathered rock																		
: Max Total in m ³	9,61,05 5 m ³	76,944 m ³	1,85,47 0m ³																		
: Annual Max in m ³	2,05,65 5 m ³	38,540 m ³	92,800 m ³																		
: Ultimate Depth in mtrs	47m BGL (2.0m Gravel+ 5.0m weathered rock +40m Rough stone)																				


MEMBER SECRETARY
SEAC -TN

24

CHAIRMAN
SEAC- TN


23.	EMP cost (in Rs. Lakh).	:	Rs.162.18 Lakhs
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs
25.	EIA report submitted on	:	Dated:25.10.2023
26.	ToR details	:	Lr.No.SEIAA-TN/F.No.9520/SEAC/ToR-1342/2022,Dated :09.02.2023.
27.	Public hearing details	:	Public hearing conducted on Dated:18.08.2023.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 2,05,655m³ of Rough stone, 92,800m³ of Weathered rock and 38,540m³ of Gravel by maintaining the ultimate depth of mining up to 47m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall appoint a First Class/Second Class Mine Manager for managing the quarrying operations before the execution of lease and a copy of the appointment shall be sent to the Director of Mines Safety, Chennai Region along with the 'Notice of Opening' of the Mine under the provisions of MMR 1961.
3. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.


MEMBER SECRETARY
SEAC -TN

25


CHAIRMAN
SEAC- TN

4. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
5. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) including the position of guards at the either side of the existing village road, to the concerned AD (Mines) at the time of lease execution.
6. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
7. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3rd year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.


MEMBER SECRETARY
SEAC -TN

26

CHAIRMAN
SEAC- TN



8. The PP shall not carry out the deep hole larger diameter blasting without a prior approval from the Director of Mines Safety, DGMS, Chennai Region by conducting a scientific study involving premier research institutions.
9. The PP shall install a Notice Board at either side of the Village road (exists within 500 m), at a distance of 500 m indicating 'BLASTING DANGER ZONE' sign & timing of blast before obtaining the CTO from the DEE/TNPCB.
10. The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
11. Considering the cluster of quarries are located, the PP shall ensure that the haul road dust is constructed with bitumen to minimize dust generation but however the suppression/watering are being done to maintain the required moisture level in all active haul roads. A fleet of water trucks with adequate water spray systems are available and operational at all times.
12. As accepted by the Project Proponent the CER cost of Rs. 7.5 Lakhs and the amount shall be spent for the activities as committed towards (i) Government Primary School, Pottalpudur (ii) Government Primary Health center – Vadakku Pappankulam(iii) Roselin Primary School A.P Nadanoora and Thiru Arumugam Primary School before obtaining CTO from TNPCB.

Agenda No: 437- 07

(File No: 9654/2022)

Proposed Multi Colour Granite quarry lease over an extent of 2.65.0Ha at SF.Nos. 417/2, 417/5, 417/7(P) & 454/2 of K.Pitchampatti Village, Karur Taluk, Karur District, Tamil Nadu M/s. Dahlia Granites Private Limited - For Environmental Clearance. (SIA/TN/MIN/450395/2023, Dated:30.10.2023)

The proposal was placed in 437th meeting of SEAC held on 04.01.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, M/s. Dahlia Granites Private Limited has applied for


MEMBER SECRETARY
SEAC -TN

27


CHAIRMAN
SEAC- TN

Environmental Clearance for the Proposed Multi Colour Granite quarry lease over an extent of 2.65.0Ha at SF.Nos. 417/2, 417/5, 417/7(P) & 454/2 of K.Pitchampatti Village, Karur Taluk, Karur District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

File No	9654/2022		Category	B1
	SIA/TN/MIN/450395/2023, Dated:30.10.2023			
Sl.No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s. Dahlia Granites Private Limited S.F.No.468/1A, R.Vellagoundanpatti, K.Pitchampatti-Post, Karur District - 639 118.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Multi Colour Granite quarry	
3.	S.F Nos. of the quarry site with area break-up	:	417/2, 417/5, 417/7(P) & 454/2	
4.	Village in which situated	:	K.Pitchampatti	
5.	Taluk in which situated	:	Karur	
6.	District in which situated	:	Karur	
7.	Extent of quarry (in ha.)	:	2.65.0Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°46'32.82782"N to 10°46'40.35742"N 78°03'49.61142"E to 78°04'0.85412"E	
9.	Topo Sheet No.	:	58-J/01	
10.	Type of mining	:	Opencast semi mechanized mining	
11.	Life of Project	:	20 years	
	Lease Period	:	20 years	

MEMBER SECRETARY
SEAC -TN

28

CHAIRMAN
SEAC- TN

	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³	:	6.69,596m ³ of ROM, 1,24,766m ³ of Multi Colour Granite 60% Recovery. 83,178m ³ of Granite waste 40%, 26,724m ³ of Weathered rock & 53,448m ³ of Topsoil.
	Mifiable Resources m ³	:	1,33,775m ³ of ROM, 55,303m ³ of Multi Colour Granite 60% Recovery, 36,869m ³ of Granite waste 40%, 8601m ³ of Weathered rock & 17,202m ³ of Topsoil.
	Annual Peak Production in m ³	:	8,070m ³ of ROM, 2,822m ³ of Multi Colour Granite 60% Recovery. 1,882m ³ of Granite waste 40%, 1,122m ³ of Weathered rock & 2,244m ³ of Topsoil.
	Ultimate Depth in meters	:	25m BGL
13.	Depth of water table	:	40m in rainy season – 45m in summer season
14.	Man Power requirement per day	:	27 Employees
15.	Water requirement:		3.3 KLD
	1. Drinking water	:	1.3 KLD
	2. Dust suppression	:	1.0 KLD
	3. Green belt	:	1.0 KLD
16.	Power requirement	:	TNEB


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

		22,112 liters of HSD will be use during this period.						
17.	Precise area communication approved by the Industries, Investment Promotion and commerce (MMB.2) Department.	Letter No.2934330/MMB.2/2022-1, Dated:10 .10.2022.						
18.	Mining Plan approved by Commissioner of Geology and Mining.	Rc.No.5764/MM2/2021, Dated:22.11.2022.						
19.	500m Cluster Letter approved by Deputy director, Department of G&M,	Rc.No.135/Mines/2021, Dated:05.12.2022.						
20.	VAO Certificate Regarding Structures within 300m Radius	Letter Dated: 08.12.2022.						
21.	Project Cost (excluding EMP cost)	Rs.58,32,290/-						
22.	EC Recommendation	<table border="1"> <tr> <td>Validity</td> <td>30 years subject to the following upper limits.</td> </tr> <tr> <td>Max Total in m³</td> <td>32,365m³ of ROM, 13,819m³ of Multi Colour Granite @60% Recovery, 9,213m³ of Granite waste @40%.</td> </tr> <tr> <td>Annual Max in m³</td> <td>8,070m³ of ROM, (2,822m³ of Multi Colour Granite @60% Recovery, 1,882m³ of Granite waste @40%).</td> </tr> </table>	Validity	30 years subject to the following upper limits.	Max Total in m ³	32,365m ³ of ROM, 13,819m ³ of Multi Colour Granite @60% Recovery, 9,213m ³ of Granite waste @40%.	Annual Max in m ³	8,070m ³ of ROM, (2,822m ³ of Multi Colour Granite @60% Recovery, 1,882m ³ of Granite waste @40%).
Validity	30 years subject to the following upper limits.							
Max Total in m ³	32,365m ³ of ROM, 13,819m ³ of Multi Colour Granite @60% Recovery, 9,213m ³ of Granite waste @40%.							
Annual Max in m ³	8,070m ³ of ROM, (2,822m ³ of Multi Colour Granite @60% Recovery, 1,882m ³ of Granite waste @40%).							


MEMBER SECRETARY
SEAC -TN


30

CHAIRMAN
SEAC- TN


		:	Ultimate Depth in mtrs	25m BGL
23.	EMP cost (in Rs. Lakh).	:	Rs.469.92Lakhs	
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs	
25.	EIA report submitted on	:	Dated:02.11.2023	
26.	ToR details	:	Lr.No.SEIAA- TN/F.No.9654/SEAC/ToR- 1394/2023,Dated:16.02.2023.	
27.	Public hearing details	:	Public hearing conducted on Dated:31.08.2023.	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for Annual Peak excavation quantity of not exceeding 8,070m³ of RoM [2,822m³ of Multi Colour Granite @ 60% Recovery + 1,882m³ of Granite waste @ 40%] with maintaining an ultimate pit depth of 25m BGL, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall ensure that the plantation shall be carried out in a phase manner as a part of mine closure activities spelt out in the progressive mine closure plan.
3. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.

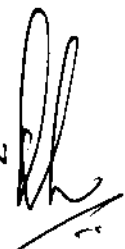

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SEAC -TN


CHAIRMAN
SEAC- TN

4. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
5. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly. A report on the compliance of this condition shall be sent once in every six months to the DEE/TNPCB, IRO/MoEF & CC, Chennai without fail.
6. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
7. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the dust pollution while transportation.
8. The PP shall annually carry out an Occupational Health Survey (OHS) in accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations(NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
9. The PP shall install the tall wind sheets around the lease boundary directing the village/structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.


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SEAC- TN



10. The PP shall adopt only non-explosive technique (Rock Breaking Compounds) for the fracturing of granite blocks ensuring the eco-friendly mining operation in the proposed quarry.
11. To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR- National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.
12. The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.
13. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR- Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
14. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted


MEMBER SECRETARY
SEAC -TN

33


CHAIRMAN
SEAC- TN

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

16. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the activities as committed towards Government Higher Secondary School, K.P.Thazhaipatty Village before obtaining CTO from TNPCB.

Agenda No: 437-08

(File No: 9156/2022)

Proposed Rough Stone and Gravel quarry lease area over an extent of 1.62.0 Ha at S.F.No. 457/5 of Melathattapparai Village, Thoothukudi Taluk, Thoothukudi District, Tamil Nadu by Tmt. P. Ananthammal - For Environmental Clearance.

(SIA/TN/MIN/452915/2023, Dated: 21.11.2023)

The proposal was placed for appraisal in this 437th meeting of SEAC held on 04.01.2024. 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. Ananthammal has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 1.62.0 Ha at S.F.No. 457/5 of Melathattapparai Village, Thoothukudi Taluk, Thoothukudi District.
2. The project/activity is covered under category "B" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the precise area communication letter, the lease period is 5 years and mine plan period is 5 years. As per the approved mine plan, the annual peak production shall not exceed 32,830 m³ of Rough Stone (3rd year) and 9048 m³ of Gravel (1st year) for an ultimate depth of 37m (2m Gravel + 35m Rough Stone) below ground level.
4. ToR along with Public Hearing issued vide Lr No.SEIAA-TN/F.No.9156/SEAC/ ToR-1184/2022 Dated: 06.07.2022
5. Public hearing conducted on 12.09.2023
6. EIA Report submitted on 21.11.2023
7. The salient features of the proposal are as follows:


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34

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File No	9156 / 2022	Category	B / 1(a)												
Sl. No	Salient Features of the Proposal														
1	Name of the Owner/Firm	:	Tmt. P. Ananthammal, W/o. Paranjothi, No.22/3A, Briyant Nagar, 8 th Street, Thoothukudi District – 628 008.												
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel												
3	S.F Nos. of the quarry site with area break-up	:	457/5												
4	Village in which situated	:	Melathattapparai												
5	Taluk in which situated	:	Thoothukudi												
6	District in which situated	:	Thoothukudi												
7	Extent of quarry (in ha.)	:	1.62.0 Ha												
8	Latitude & Longitude of all corners of the quarry site	:	08°48'47.64"N to 08°48'52.49"N 78°01'45.27"E to 78°01'51.97"E												
9	Topo Sheet No.	:	58 – L/01												
10	Type of mining	:	Opencast Mechanized Mining												
11	Life of Project	:	10 years												
	Lease Period	:	5 years												
	Mining Plan Period	:	5 years												
12	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC											
	Geological Resources m ³ (RoM)	:	<table border="1"> <thead> <tr> <th>Rough Stone</th> <th>Gravel</th> <th>Rough Stone</th> <th>Gravel</th> </tr> </thead> <tbody> <tr> <td>5,67.00</td> <td>32,400</td> <td></td> <td></td> </tr> <tr> <td>0 m³</td> <td>m³</td> <td></td> <td></td> </tr> </tbody> </table>	Rough Stone	Gravel	Rough Stone	Gravel	5,67.00	32,400			0 m ³	m ³		
Rough Stone	Gravel	Rough Stone	Gravel												
5,67.00	32,400														
0 m ³	m ³														


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 SEAC -TN

35


 CHAIRMAN
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	Minable Resources m ³ (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
			1,55,120 m ³	20,592 m ³	-	-
	Annual Peak Production in m ³	:	Rough Stone	Gravel	Rough Stone	Gravel
			32,830 m ³	9048 m ³	-	-
	Ultimate Depth in meters	:	37m (2m Gravel + 35m Rough Stone) below ground level		-	
13	Depth of water table	:	47m-52m below ground level			
14	Man Power requirement per day:	:	19 Nos.			
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	2.0 KLD 0.4 KLD - 1.0 KLD 0.6 KLD			
16	Power requirement	:	1,27,526 Liters of HSD			
17	Precise area communication approved by the District Collector	:	Na.Ka.No: G.M.1/141/2021, Dated:07.12.2021			
18	Mining Plan approved by the Assistant Geologist / Assistant Director (i/c), Department of G&M	:	Roc.No. G.M.1/141/2021, Dated:11.01.2022			
19	Department of G&M, Assistant Geologist / Assistant Director (i/c) 500m Cluster Letter	:	Roc.No. G.M.1/141/2021, Dated:27.01.2022			


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SEAC -TN

36

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20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 02.02.2022		
21	Project Cost (excluding EMP cost)	:	Rs. 29,84,000/-		
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total RoM in m ³	1,55,120 m ³	20,592 m ³
			Annual Max RoM in m ³	32,830 m ³	9048 m ³
			Ultimate Depth in mtrs	37m (2m Gravel + 35m Rough Stone) below ground level	
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 23,53,400/- Recurring Cost – Rs. 15,14,752/-		
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 32,830 m³ of Rough Stone (3rd year) and 9048 m³ of Gravel (1st year) by maintaining the ultimate depth of mining upto 37m (2m Gravel + 35m Rough Stone) below ground level and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a


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37


CHAIRMAN
SEAC- TN

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

2. Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
3. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
4. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
5. Since the wind mill structures are existing within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of one year from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
6. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
7. The PP shall ensure that the transportation of minerals shall not be carried out through the village road passing near the school premises.


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SEAC -TN


38

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SEAC- TN


8. The PP shall appoint a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 before executing the lease and a copy of such appointment shall be sent to the DMS/Chennai Region atleast 30 days before the commencement of the mining operations without fail.
9. The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
10. Considering the village/highway roads are located within 300m from the lease boundary, the PP shall carry out the small scale blasting involving 30 to 40 holes in a round at a time with keeping the total aggregate explosive charge/round is limited to 2 kg only in accordance with the provisions of MMR 1961.
11. The PP shall only carry out the blasting operation involving only the NONEL (or) Electronic Detonator initiation system for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
12. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
13. As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the activities as committed towards the Panchayat Union Primary School, Panchalankuruchi, Thoothukudi District, before obtaining CTO from TNPCB.

Agenda No:437-09

(File No:9032/2023)


MEMBER SECRETARY
SEAC -TN

39


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SEAC- TN

Proposed Rough Stone and Gravel quarry lease over an extent of 3.87.0 Ha at S.F.Nos. 429/1A, 429/2A and 429/2B of Kattalankulam Village, Thoothukudi Taluk, Thoothukudi District, Tamil Nadu by Thiru. S. Ramachandran - For Environmental Clearance. (SIA/TN/MIN/450412/2023, Dated:27.10.2023).

The proposal was placed in the 437th meeting of SEAC held on 04.01.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. S. Ramachandran has applied for Environmental Clearance for Proposed Rough Stone and Gravel quarry lease over an extent of 3.87.0 Ha at S.F.Nos. 429/1A, 429/2A and 429/2B of Kattalankulam Village, Thoothukudi Taluk, Thoothukudi District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. ToR along with Public Hearing issued vide Lr.No.SEIAA-TN/F.No.9032/SEAC/TOR-1158/2022 Dated: 06.06.2022.
4. Public hearing conducted on 05.09.2023.
5. EIA Report submitted on 17.11.2023.
6. The salient features of the proposal are as follows:

File No	9032 / 2023	Category	1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru.S.Ramachandran, S/o. Subbaiah, No.13, Kovalan Street, Palayamkottai, Tirunelveli District-627002.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel
3	S.F Nos. of the quarry site with area break-up	:	429/1A, 429/2A & 429/2B


MEMBER SECRETARY
SEAC -TN

40

CHAIRMAN
SEAC- TN


4	Village in which situated	:	Kattalankulam			
5	Taluk in which situated	:	Thoothukudi			
6	District in which situated	:	Thoothukudi			
7	Extent of quarry (in ha.)	:	3.87.0 Ha			
8	Latitude & Longitude of all corners of the quarry site	:	08°40'04.41"N to 08°40'15.38"N 77°58'33.40"E to 77°58'41.05"E			
9	Topo Sheet No.	:	58 – H/14			
10	Type of mining	:	Opencast Mechanized Mining			
11	Life of Project	:	5 years			
	Lease Period	:	5 years			
	Mining Plan Period	:	5 years			
12	Mining Plan Details	:	As per approved Mining Plan		As modified by SEAC	
	Geological Resources m ³ (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
		:	17,41,50 0 m ³	77,400 m ³	17,41,50 0 m ³	77,400 m ³
	Mirable Resources m ³ (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
		:	7,46,04 0m ³	63,840 m ³	7,46,04 0m ³	63,840 m ³
Annual Peak Production in m ³	:	Rough Stone	Gravel	Rough Stone	Gravel	
	:	1,74,84 0 m ³	23,028 m ³	1,74,84 0 m ³	23,028 m ³	
	Ultimate Depth in meters	:	47m BGL (2mGravel + 45m Rough stone)			
13	Depth of water table	:	60m-65m BGL			

MEMBER SECRETARY
SEAC -TN


41

CHAIRMAN
SEAC- TN

14	Man Power requirement per day:	:	52 Nos.		
15	Water requirement:	:	2.4 KLD		
	5. Drinking water & Domestic purpose	:	0.6 KLD		
	6. Dust suppression	:	1.0 KLD		
	7. Green belt	:	0.8 KLD		
16	Power requirement	:	6,07,472 Liters of HSD / Entire Project Life		
17	Precise area communication approved by District Collector	:	Rc.No. G.M.1/105/2021 Dated:07.12.2021		
18	Mining Plan approved by Joint Director / Assistant Director (i/c), Department of G&M	:	Rc.No. G.M.1/105/2021 Date: 21.01.2022		
19	Department of G&M, Joint Director / Assistant Director (i/c) 500m Cluster Letter	:	Roc.No.G.M.1/105/2021 Date:27.01.2022		
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter furnished Dated:20.01.2022		
21	Project Cost (excluding EMP cost)	:	Rs. 95,65,000/-		
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				<table border="1"> <tr> <td>Rough Stone</td> <td>Gravel</td> </tr> <tr> <td>7,46,040 m³</td> <td>63.84 0 m³</td> </tr> </table>	Rough Stone
Rough Stone	Gravel				
7,46,040 m ³	63.84 0 m ³				


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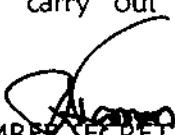
42

CHAIRMAN
SEAC- TN



		: Annual Max RoM in m ³	1,74,840 m ³	23.02 8 m ³
		: Max Depth in mtrs	47m BGL	
23	EMP cost (in Rs. Lakh).	: Capital Cost – Rs.3806900/- Recurring Cost – Rs.3261244/-		
24	CER cost (in Rs. Lakh).	: Rs. 5,00,000/- as accepted by the PP		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 1,74,840 m³ of Rough Stone and 23,028 m³ of Gravel by maintaining the ultimate depth of mining upto 47m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 3) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 4) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of one year from the


MEMBER SECRETARY
SEAC -TN

43

CHAIRMAN
SEAC- TN


commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 5) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 6) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of two years from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-


MEMBER SECRETARY
SEAC -TN

44

CHAIRMAN
SEAC- TN


IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 8) Tree plantation & fencing around the mine lease area shall be completed before starting the production.
- 9) The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations to the concerned AD (Mines) at the time of execution of lease.
- 10) As accepted by the Project Proponent shall contribute CER cost of RS. 5 Lakhs to DFO, Thoothukudi District towards conservation measures for Vallanadu Black Buck Sanctuary, Since Vallanadu Black Buck Sanctuary falls within 10km radius from the proposed mining site.

Agenda No:437-10

(File No: 9544/2023)

Proposed Rough stone quarry lease over an extent of 4.60.0 Ha at S.F.No. 420 (Part 3) of Thuppuganapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. Sumukha Blue Metals & Blocks LLP - for Environmental Clearance.

(SIA/TN/MIN/449485/2023, Dated: 19.10.2023).

The proposal was placed in the 437th meeting of SEAC held on 04.01.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Sumukha Blue Metals & Blocks LLP has applied for Environmental Clearance for the Proposed Rough stone quarry lease over an extent of 4.60.0 Ha at S.F.No. 420 (Part 3) of Thuppuganapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. ToR along with Public Hearing issued vide Lr.No.SEIAATN/F.No.9544/SEAC/


MEMBER SECRETARY
SEAC -TN

45


CHAIRMAN
SEAC- TN

ToR-1323/2019 Dated: 10.02.2023 stipulates that

“...the Proponent shall submit the ‘Production & Development Plan’ prepared as a part of the approved Mining Plan, duly signed by the concerned QP & approved by the concerned AD (Geology & Mining) during the EIA appraisal”.

4. Public hearing conducted on 26.07.2023.
5. EIA Report submitted on 01.11.2023.

Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain the following details from the PP.

1. The bench height 7m shall be modified to the bench height of not more than 6 m under the provisions of MMR 1961 and the Project Proponent shall accordingly furnish the Modified mining plan duly approved by the competent authority, by maintaining benches of appropriate geometry with an ultimate depth not exceeding 50 m.

On receipt of the above details, the SEAC would further deliberate on this project and decide the further course of action. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.

Agenda No: 437- 11

(File No: 9059/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 4.95.0Ha in S.F.Nos.451 (P), 452 (P) & 453 (P) Kattalangulam Village, Thoothukudi Taluk, Thoothukudi District Tamil Nadu by M/s. Golden Blue Metals Pvt Ltd – For Environmental Clearance. (SIA/TN/MIN/450232/2023 Dt.26.10.2023)

The proposal was placed in 437th SEAC meeting held 04.01.2024. The details of the minutes are available in the website (parivesh.nic. in).

The SEAC noted the following:

1. The project proponent, M/s. Golden Blue Metals Pvt Ltd has applied for Environmental Clearance for the Rough Stone & Gravel Quarry lease over an extent of 4.95.0Ha in S.F.Nos.451 (P), 452 (P) & 453 (P) Kattalangulam Village, Thoothukudi Taluk, Thoothukudi District, Tamil Nadu.


MEMBER SECRETARY
SEAC -TN

46


CHAIRMAN
SEAC- TN



2. The project activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. ToR issued with Public Hearing vide Lr.No.SEIAA-TN/F.No.9059/SEAC/ToR-1171/2022, Dated: 13.06.2022 for the production capacity upto depth 40m BGL.
4. Public Hearing Conducted on 05.09.2023.
5. EIA Received on 01.11.2023.
6. The precise area communication was issued for the period of 5 years. The approved mining plan is for the period of 1st five years & production should not exceed 1203696m³ of Rough Stone and 84162m³ of gravel. The annual peak production is 288840m³ of Rough Stone (2nd& 3rd year) and 28054m³ of gravel (1st, 2nd and 3rd Year). The depth of mining is 50m BGL.
7. As per ToR, the revised production should not exceed 1066086m³ of Rough Stone and 71994 m³ of Gravel. The annual peak production is 243600m³ of Rough Stone (3rd Year) and 28054m³ of Gravel (1st Year). The depth of mining is 40m BGL.

Yearly production of rough stone and gravel								
Section	Year	Bench	Length In (m)	Width In (m)	Depth In (m)	Volume In (Cu.m.)	Gravel	
XY-AB	I	i	83	169	2		28054	
		ii	77	163	6	75306		
		iii	65	151	6	58890		
		iv	53	139	6	44202		
		v	41	127	6	31242		
						Total=	289640	28054
	II	i	60	169	2			20280
		ii	60	163	6	58680		
		iii	60	151	6	54360		
		iv	60	139	6	50840		
		v	60	127	6	45720		
						Total=	208800	20280
	III	i	70	169	2			23660
		ii	70	163	6	68460		
		iii	70	151	6	63420		
		iv	70	139	6	58380		
		v	70	127	6	53340		
						Total=	243600	23660
	IV	ii	36	163	6	35208		
		iii	36	151	6	32616		
		iv	36	139	6	30024		
		v	36	127	6	27432		
		vi	110	115	6	75900		
						Total=	201180	
v	vi	85	115	6	58650			
	vii	183	103	6	113094			
	viii	171	91	2	31122			
				Total=	202866			
				Grand Total=	1066086		71994	


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SEAC -TN

CHAIRMAN
SEAC- TN


Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	M/s. Golden Blue Metals Pvt Ltd, Thiru. S.Mohan (Manager), Door No. 9, Main Road, Pandravilai, Perungulam Village, Eral Taluk, Thoothukudi District - 628 751
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	Rough stone & Gravel
3.	S.F Nos. of the quarry site with area break-up	451 (P), 452 (P) & 453 (P)
4.	Village in which situated	Kattalangulam
5.	Taluk in which situated	Thoothukudi
6.	District in which situated	Thoothukudi
7.	Extent of quarry (in ha.)	4.95.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	08°39'49.68"N to 08°39'59.18"N 77°58'24.26"E to 77°58'34.68"E
9.	Topo Sheet No.	58 - H/14
10.	Type of mining	Opencast mechanized mining
11.	Life of Project	5 Years
	Lease Period	5 Years
	Mining Plan Period	5 Years
	Mining Plan Details	As per approved Mining Plan
12.	Geological Resources m ³ (RoM)	Rough Stone in m ³
		Gravel in m ³ 2376000m ³
	Mineable Resources m ³ (RoM)	Rough Stone Gravel


MEMBER SECRETARY
SEAC -TN

48

CHAIRMAN
SEAC- TN


		1203696m ³	84162m ³
	Annual Peak Production in m ³	Rough Stone	Gravel
		1203696m ³	84162m ³
	Maximum Depth in meters	50m	
13.	Revised Mineable Resources m ³ (RoM)	Rough Stone	Gravel
		1066086 m ³	71994 m ³
	Revised Annual Peak Production in m ³	Rough Stone	Gravel
		243600 m ³	28054 m ³
Revised Maximum Depth in meters	40 m		
14.	Depth of water table	65m-60m	
15.	Man Power requirement per day:	57 Nos.	
16.	Water requirement:	4.2 KLD	
	4. Drinking water	1.0 KLD	
	5. Utilized water	1.8 KLD	
	6. Dust suppression	1.4 KLD	
7. Green belt			
17.	Power requirement	TNEB 976964Liters of HSD	
18.	Precise area communication approved by the, Assistant Director, Geology and Mining with date	Na.Ka.No.G.M.1/482/2021, Dated: 28.12.2021	
19.	Mining Plan approved by Assistant Geologist/Assistant	Roc.No.G.M.1/482/2021, Dated: 24.01.2022.	


MEMBER SECRETARY
SEAC -TN

49

CHAIRMAN
SEAC- TN


	Director(i/c), Department of Geology and Mining with date		
20.	Assistant Geologist/Assistant Director(i/c), Department of Geology and Mining 500m cluster letter	Roc.No.G.M.1/482/2021, Dated: 28.01.2022.	
21.	VAO certificate regarding 300m radius cluster	Letter dated: 29.01.2022	
22.	Project Cost (excluding EMP cost)	Rs. 160.73 lakh	
23.	EC Recommendation	Revised restricted production Quantity recommended by SEAC as per approved mining plan	
		Rough Stone	Gravel
	Max Total	1066086	71994
	RoM in m ³	m ³	m ³
	Annual Max	243600 m ³	28054
	RoM in m ³		m ³
	Max Depth in mtrs	40 m	
24.	EMP cost (in Rs. Lakh).	Capital Cost - Rs.43.515 Lakhs. Recurring Cost – Rs. 41.479 Lakhs Including 5% inflation cost for every year till the life of mine.	
25.	CER cost (in Rs. Lakh).	Rs.5 Lakhs	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for annual peak production shall not exceed 243600m³ of Rough Stone and 28054m³ of Gravel by restricting the ultimate depth of mining up to 40m BGL and for the


MEMBER SECRETARY
SEAC -TN

50

CHAIRMAN
SEAC- TN


period five Years subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 3) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 4) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of one year from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


- 5) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 6) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) **Since the waterbodies are situated nearby,** the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of two years from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8) Tree plantation & fencing around the mine lease area shall be completed before starting the production.
- 9) The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations to the concerned AD (Mines) at the time of execution of lease.


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


10) As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Government Higher Secondary School, Vazhvallan Village, Thoothukudi District before obtaining CTO from TNPCB.

11) As accepted by the Project Proponent shall spend handover CER cost of RS. 5 Lakhs to DFO, Thoothukudi District towards conservation measures for Vallanadu Black Buck Sanctuary, Since Vallanadu Black Buck Sanctuary falls within 10km radius from the proposed mining site.

Agenda No: 437 - 12


(File No: 9185/2023)

Proposed Rough Stone quarry lease over an extent of 2.95.0Ha in S.F.No. 637(p) and 4(p), (Government Poramboke Land) Thuppuganapalli & Agaram Agraharam Village, Shoolagiri Taluk, Krishnagiri, Tamil Nadu by M/S.Sri Vari Infrastructure-ForEnvironmental Clearance. (SIA/TN/MIN/450062/2023 Dt.25.10.2023)

The proposal was placed in 437th SEAC meeting held 04.01.2024. The details of the minutes are available in the website (parivesh.nic. in).

The SEAC noted the following:

1. The project proponent, M/S. Sri Vari Infrastructure has applied for Environmental Clearance for the Rough Stone quarry lease over an extent of 2.95.0Ha in S.F.No.637(p) and 4(p), Thuppuganapalli & Agaram Agraharam Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. ToR with public hearing issued vide Lr No. SEIAA-TN/F. No.9185/ToR-1214/2022 Dated: 02.08.2022.
4. Public Hearing Conducted on 26.07.2023.
5. EIA Received on 01.11.2023.
6. DFO letter: 30.01.2019.
7. The precise area communication was issued for the period of 10 Years. The mining plan is for the period of Five years. The total production shall not exceed 848738 m³ of Rough stone. The annual peak production as per mining plan is


MEMBER SECRETARY
SEAC -TN

53

CHAIRMAN
SEAC- TN



192556 m³ of Rough stone (4th year) with ultimate depth of 56m (25m AGL+31BGL).

8. As per ToR, the revised production should not exceed 655497 m³ of Rough Stone. The annual peak production is 192556 m³ of Rough Stone. The depth of mining is 41m (25m AGL+16 BGL).

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	M/s. Sri Vari Infrastructure Prop.Thiru.R.Adalarasu D.NO.2/389, Poosaripatti Village Sogathur Post, A.Reddyhalli Dharmapuri Dharmapuri - 636809
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	Rough Stone
3.	S.F Nos. of the quarry site with area break-up	637(p) and 4(p)
4.	Village in which situated	Thuppuganapalli & Agaram Agraharam
5.	Taluk in which situated	Shoolagiri
6.	District in which situated	Krishnagiri
7.	Extent of quarry (in ha.)	2.95.0Ha
8.	Latitude & Longitude of all corners of the quarry site	12°37'34.9863"N to 12°37'32.5392"N 77°57'29.6170"E to 77°57'24.3969"E
9.	Topo Sheet No.	57 – H/14
10.	Type of mining	Opencast Mechanized Mining
11.	Life of Project	10 Years
	Lease Period	10 Years
	Mining Plan Period	5 Years
12.	Mining Plan Details	As per approved Mining Plan
		Rough Stone in m ³


MEMBER SECRETARY
SEAC -TN

54

CHAIRMAN
SEAC- TN


	Geological Resources m ³ (RoM)	1296897m ³
	Mineable Resources m ³ (RoM)	: Rough Stone 934140m ³
	Annual Peak Production in m ³	: Rough Stone 934140m ³
	Maximum Depth in meters	: 56m (25m AGL+31BGL)
13.	Mineable Resources m ³ (RoM)	: Rough Stone 655497m ³
	Annual Peak Production in m ³	: Rough Stone 192556m ³
	Proposed Ultimate Depth in meters	: 56m (25m AGL+31 BGL)
14.	Depth of water table	: 62m
15.	Man Power requirement per day:	: 57 Nos.
16.	Water requirement: 8. Drinking water 9. Utilized water 10. Dust suppression 11. Green belt	4.0 KLD 1.0 KLD : 1.5 KLD 1.5 KLD
17.	Power requirement	TNEB
18.	Precise area communication approved by the, Assistant Director, Geology and Mining with date	: Na.Ka.No.231/2019/Kanimam, dt:13.06.2019
19.	Mining Plan approved by Assistant Director	: Rc.No.231/2019/Mines, dt:29.11.2019


 MEMBER SECRETARY
 SEAC -TN

55

CHAIRMAN
 SEAC- TN


	(Addl.Charge). Department of Geology and Mining with date	
20.	Assistant Director (Addl.Charge). Department of Geology and Mining 500m cluster letter	Rc.No.231/2019/Mines, dt:29.11.2019
21.	VAO certificate regarding 300m radius cluster	Letter dt:19.01.2022
22.	Project Cost (excluding EMP cost)	Rs.127.43 Lakhs
23.	EC Recommendation	As per approved mining plan
		Rough Stone
		Max Total RoM in m ³ : 655497m ³
		Annual Max RoM in m ³ : 192556m ³
		Max Depth in mtrs : 56 m (25m AGL+31 BGL)
24.	EMP cost (in Rs. Lakh).	Capital Cost - Rs.12.15 Lakhs. Recurring Cost – Rs. 7.29 Lakhs Including 5% inflation cost for every year till the life of mine.
25.	CER cost (in Rs. Lakh).	Rs.5 Lakhs to DFO, Krishnagiri District towards conservation measures for CNWLS.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production shall not exceed 192556m³ of Rough Stone by restricting the ultimate depth of mining up to 56m (25m AGL+31m BGL) subject to the standard


MEMBER SECRETARY
SEAC -TN

56

CHAIRMAN
SEAC- TN

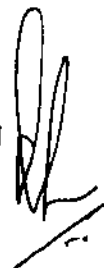

conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
3. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
4. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
5. The PP shall ensure that the excavation operations shall be commenced from top to downwards in the proposed hilly terrain with incorporating proper benches and a dedicated haul road with permissible gradient & safety provisions as per the provisions of MMR 1961 & DGMS (Tech) Circular No.09 of 2008.
6. The PP shall appoint a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 before executing the lease and a copy of such appointment shall be sent to the DMS/Chennai Region atleast 30 days before the commencement of the mining operations without fail.


MEMBER SECRETARY
SEAC -TN

57

CHAIRMAN
SEAC- TN



7. The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
8. Considering the village/highway roads are located within 300m from the lease boundary, the PP shall carry out the small scale blasting involving 30 to 40 holes in a round at a time with keeping the total aggregate explosive charge/round is limited to 2 kg only in accordance with the provisions of MMR 1961
9. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies comprising all the operating leases located in a cluster situation, on 'Optimisation of Controlled Blast Techniques for reducing the cumulative impact of blast-induced ground & air vibrations and flyrock caused due to the blasting operations' using the NONEL initiation systems on the structures located within 500 m to 750 m (radial distance), by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining and Fuel Research / Nagpur, NIRM, Bangaluru, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
10. However, for the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry walls in a hilly terrain within a period of six months from the commencement of mining operations for evaluating the slope stabilization & protective measures while designing the proposed benches, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.


MEMBER SECRETARY
SEAC -TN

58

CHAIRMAN
SEAC- TN



11. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

12. As accepted by the Project Proponent shall handover CER cost of RS. 5 Lakhs to DFO, Krishnagiri District towards conservation measures for CNWLS, Since CNWLS falls within 10km radius from the proposed mining site.

Agenda No: 437- 13

(File No: 9608/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 2.45.5Ha S.F.No.3, Surandai Part-I Village, V.K.Pudur Taluk, Tenkasi District by Thiru.K.Arumugasamy - For Environmental Clearance. (SIA/TN/MIN/448969/2023 Dt. 18/10/2023)

The proposal was placed in 437th SEAC meeting held 04.01.2024. The details of the minutes are available in the website (parivesh.nic. in).

The SEAC noted the following:

1. The project proponent, Thiru.K.Arumugasamy has applied for Environmental Clearance for the Rough Stone and Gravel Quarry lease over an extent of 2.45.5Ha S.F.No.3, Surandai Part-I Village, V.K.Pudur Taluk, Tenkasi District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification,2006.
3. ToR with public hearing issued vide. Lr No.SEIAA-TN/F.No.9608/SEAC/ToR-1335/2022 Dated: 10.02.2023.
4. Public Hearing Conducted on 16.08.2023.
5. EIA Received on 05.10.2023.
6. The precise area communication was issued for the period of 5 Years. The mining plan is for the period of Five years. The total production for 5 years not to exceed 283500m³ of Rough stone& 87300m³ of Weathered Rock & 38400m³ of Gravel. The annual peak production as per mining plan is 77700 m³ of Rough stone (4th year) & 19200 m³ of Gravel (1st Year) & 42300 m³ of Weathered Rock (1st year) with ultimate depth of 42m.


MEMBER SECRETARY
SEAC -TN

59

CHAIRMAN
SEAC- TN



Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.K.Arumugasamy, S/o.Kajendran, No.14/1/185, Near Anna Statue, Surandai, V.K.Pudur Taluk, Tenkasi District - 627859
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel
3.	S.F Nos. of the quarry site with area break-up	:	3
4.	Village in which situated	:	Surandai Part-I
5.	Taluk in which situated	:	V.K.Pudur
6.	District in which situated	:	Tenkasi
7.	Extent of quarry (in ha.)	:	2.45.5Ha
8.	Latitude & Longitude of all corners of the quarry site	:	08°59'54.28"N to 08°59'54.68"N 77°28'29.24"E to 77°28'31.60"E
9.	Topo Sheet No.	:	58 - G/8,G/12,H/05,& H/9.
10.	Type of mining	:	Opencast Mechanized of Mining
11.	Life of Project	:	5 Years
	Lease Period	:	5 Years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³ (RoM)		Rough Stone in m ³
			Gravel in m ³
	Mineable Resources m ³ (RoM)	:	Rough Stone Gravel Weathered Rock


MEMBER SECRETARY
SEAC - TN

60

CHAIRMAN
SEAC- TN


		283500 m ³	38400 m ³	87300 m ³
	Annual Peak Production in m ³	Rough Stone	Gravel	Weathered Rock
		77700 m ³	19200 m ³	42300 m ³
	Maximum Depth in meters	: 42m BGL		
13.	Depth of water table	: 70m – 65m BGL		
14.	Man Power requirement per day:	: 36 Nos.		
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	3.0 KLD 0.8 KLD 1.0 KLD 1.2 KLD	:	
16.	Power requirement	TNEB 233200Liters of HSD		
17.	Precise area communication approved by the, District Collector Department of Geology and Mining with date	: Rc.No.M1/23755/2020, dt: 22.10.2021		
18.	Mining Plan approved by Assistant Director Department of Geology and Mining with date	: Roc.No.M1/23755/2020. dt: 19.11.2021		
19.	Assistant Director, Department of Geology and Mining 500m cluster letter	: Roc.No.M1/23755/2020, dt: 20.11.2022		
20.	VAO certificate regarding 300m radius cluster	: Letter dt: 10.11.2021		


MEMBER SECRETARY
SEAC -TN

61

CHAIRMAN
SEAC- TN


21.	Project Cost (excluding EMP cost)	:	Rs.72.96 Lakh			
22.	EC Recommendation	:	As per approved mining plan			
		:		Rough Stone	Gravel	Weathered Rock
		:	Max Total RoM in m ³	283500 m ³	38400 m ³	87300 m ³
		:	Annual Max RoM in m ³	77700 m ³	19200 m ³	42300 m ³
		:	Max Depth in m	42 m		
23.	EMP cost (in Rs. Lakh).	:	Capital Cost & Recurring Cost – Rs. 23.18 Lakhs Including 5% inflation cost for every year till the life of mine.			
24.	CER cost (in Rs. Lakh).	:	Rs.6.50 Lakhs			

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production shall not exceed 77700m³ of Rough Stone, 19200 m³ of Gravel & 42300 m³ of Weathered Rock by restricting the ultimate depth of mining upto 42m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


MEMBER SECRETARY
SEAC -TN

62

CHAIRMAN
SEAC- TN



1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
3. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
4. Since the windmill structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of one year from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
5. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.

6. The PP shall ensure that the transportation of minerals shall not be carried out through the village road passing near the school premises.
7. The PP shall appoint a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 before executing the lease and a copy of such appointment shall be sent to the DMS/Chennai Region atleast 30 days before the commencement of the mining operations without fail.
8. The PP shall not carry out the secondary blasting of oversize fragments /boulders during the life of the lease period.
9. Keeping the wind mill structure located within 300 m, the PP shall only carry out the blasting operation involving 60 % of NONEL-initiation and 40% of Electronic Detonator initiation system in the different rock formations for controlling the environmental impacts with keeping the security guards at the boundary of the danger zone of 500 m.
10. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
11. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.


MEMBER SECRETARY
SEAC -TN

64


CHAIRMAN
SEAC- TN

12. As accepted by the Project Proponent the CER cost of Rs. 6.50 lakhs and the amount shall be spent for the Govt. High School, Anaikulam Village, R.C Primary School & Anganwadi Centre, Vaadiyur & Govt. Primary School, Karaiyazhanur before obtaining CTO from TNPCB.

Agenda No: 437 - 14

(File No: 9705/2023)

Existing Rough Stone and Gravel Quarry over an extent of 1.81.5Ha SF.No.428/2, 429/1 & 429/2 of Chikkarampalayam Village, Mettupalayam Taluk, Coimbatore District by Thiru.P.Chandramohan – For Environmental Clearance.

(SIA/TN/MIN/448825/2023 Dt.14.10.2023)


The proposal was placed in 437th SEAC meeting held 04.01.2024. The details of the minutes are available in the website (parivesh.nic. in).

The SEAC noted the following:

1. Earlier, the proposed mining area was already been issued with EC to the project proponent Tmt. P. Bhagyavathi (Previous Lessee) vide EC – Lr.No. SEIAA-TN/F.No.5642/1(a)/EC.No:3901/2016 dated: 14.06.2017 for Previous Lease Period 17.10.2017 – 16.10.2022.
2. The project proponent, Thiru.P.Chandramohan has applied for Environmental Clearance for the existing Rough Stone & Gravel Quarry lease over an extent of 1.81.5Ha SF.No.428/2, 429/1 & 429/2 of Chikkarampalayam Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu.
3. The project/activity is covered under category “B1” of Item 1 (a) “Mining of Minerals Projects” of the schedule to the EIA Notification, 2006.
4. ToR vide Lr No. SEIAA-TN/F.No.9705/ToR-1444/2022 Dated: 08.05.2023.
5. Public Hearing Conducted on 01.08.2023.
6. EIA Received on 01.11.2023.
7. The precise area communication was issued for the period of 5 Years. The approved mining plan is for the period of five Years & production should not exceed 70532m³ of Rough Stone and 1080m³ of gravel. The annual peak production shall not exceed 14808m³ of Rough Stone, & 1080 m³ of Gravel The


MEMBER SECRETARY
SEAC -TN

65


CHAIRMAN
SEAC- TN


ultimate depth of mining is 35m BGL.

Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	: Thiru.P.Chandramohan, Slo.Palanisamy, No.9/1A, Pongali Mudaliyar Street, KNP Road, Karamadai, Coimbatore District-641104	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Rough Stone and Gravel	
3.	S.F Nos. of the quarry site with area break-up	: 428/2, 429/1 & 429/2	
4.	Village in which situated	: Chikkarampalayam	
5.	Taluk in which situated	: Mettupalayam	
6.	District in which situated	: Coimbatore	
7.	Extent of quarry (in ha.)	: 1.81.5Ha	
8.	Latitude & Longitude of all corners of the quarry site	: 11°14'57.26"N to 11°15'02.15"N 76°59'25.42"E to 76°59'30.96"E	
9.	Topo Sheet No.	: 58 – A/15 & 58 A/16	
10.	Type of mining	: Opencast Mechanized of Mining	
11.	Life of Project	: 5 Years	
	Lease Period	: 5 Years	
	Mining Plan Period	: 5 Years	
12.	Mining Plan Details	: As per approved Mining Plan	
	Geological Resources m ³ (RoM)	Rough Stone in m ³	Gravel in m ³
		437835m ³	2602m ³
	Mineable Resources m ³ (RoM)	Rough Stone	Gravel
155626m ³		1080m ³	


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SEAC -TN

66

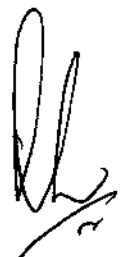
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SEAC- TN


	Annual Peak Production in m3	: Rough Stone 14808m ³	Gravel 1080m ³
	Maximum Depth in meters	: 35m BGL	
13.	Depth of water table	: 70m-65m BGL	
14.	Man Power requirement per day:	: 14 Nos.	
15.	Water requirement: 12. Drinking water 13. Utilized water 14. Dust suppression 15. Green belt	: 1.2 KLD 0.3 KLD 0.5 KLD 0.4 KLD	
16.	Power requirement	: TNEB	
17.	Precise area communication approved by the, Assistant Director, Geology and Mining with date	: Na.Ka.No.350/ Kanimam/2022, dt: 18.10.2022	
18.	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Roc.No.350/Mines/2022, dt: 21.11.2022.	
19.	Assistant Director, Department of Geology and Mining 500m cluster letter	: Rc.No.350/Mines/2022, dt: 21.11.2022	
20.	VAO certificate regarding 300m radius cluster	: Letter dt: 17.11.2022	
21.	Project Cost (excluding EMP cost)	: Rs.33.71 Lakh	
22.	EC Recommendation	: As per approved mining plan	


MEMBER SECRETARY
SEAC -TN

67

CHAIRMAN
SEAC- TN



		Rough Stone	Gravel
:	Max Total RoM in m ³	70532 m ³	1080 m ³
:	Annual Max RoM in m ³	14808 m ³	1080 m ³
:	Max Depth in mtrs	35 m	

Based on the presentation and documents furnished by the project proponent, SEAC decided to defer and to seek additional details

1. CCR obtained from IRO(SZ), MoEF&CC, Chennai.
2. Photographs of fencing, greenbelt, & Garland drain around the proposed mining area.
3. Details of Pit dimension and last transport permit letter from AD/DD, Dept. of Geology & Mining, of the Coimbatore District.

Agenda No: 437- 15

(File No: 9851/2023)

Proposed Rough Stone, Jelly and Gravel Quarry over an extent of 3.3350 Ha SF.No.919/1, 2A(P) of Nathikudi Village, Vembakottai Taluk, Virudhunagar District by Shri. J. Saipreetham - For Environmental Clearance.

(SIA/TN/MIN/451537/2023 Dt.06.04.2023)

The proposal was placed in 437th SEAC meeting held 04.01.2024. The details of the minutes are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Shri. J. Saipreetham has applied for Environmental Clearance for the Rough Stone, Jelly and Gravel Quarry lease over an extent of 3.3350Ha SF.No.919/1, 2A(P) of Nathikudi Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.



MEMBER SECRETARY
SEAC -TN

68

CHAIRMAN
SEAC- TN


3. ToR vide. Lr No. SEIAA-TN/F.No.9851/SEAC/ToR-1443/2023 Dated: 09.05.2023.
4. Public Hearing Conducted on 04.10.2023.
5. EIA received on 15.11.2023.
6. The precise area communication was issued for the period of 10 years. The approved mining plan is for the period of 1st five years & production should not exceed 508494m³ of Rough Stone & 71127m³ of Weathered rock & 47418m³ of Topsoil Earth. The annual peak production is 115450 m³ of Rough Stone (5th Year) & 23205 m³ of Weathered rock (1st Year). The depth of mining is 35m BGL.
7. Revised production as per SEAC, production should not exceed 353641.5m³ of Rough Stone & 62157 m³ of Weathered rock & 46476 m³ of Topsoil Earth. The annual peak production is 105304 m³ of Rough Stone (5th Year) & 25312.5 m³ of Weathered rock (1st Year). The depth of mining is 35m BGL.
8. PP reported that existing pit of 6m was quarried before 2010 and the same was verified with KML.


Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	: Thiru J Saipreetham S/o. Sri. P. Jeyaraman No 81, Srivilliputhur Town Srivilliputhur Taluk. Virudhunagar District
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Rough Stone, Weathered Rock and Gravel
3.	S.F Nos. of the quarry site with area break-up	: 919/1, 2A(P)
4.	Village in which situated	: Nathikudi
5.	Taluk in which situated	: Vembakottai
6.	District in which situated	: Virudhunagar


MEMBER SECRETARY
SEAC -TN

69

CHAIRMAN
SEAC- TN


7.	Extent of quarry (in ha.)	:	3.33.50Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	9°26'13.6"N 9°26'21.9"N 77°41'35.8"E 77°41'40.4"E		
9.	Topo Sheet No.	:	58G/11		
10.	Type of mining	:	Open Cast Semi-Mechanized		
11.	Life of Project	:	5 Years		
	Lease Period	:	5 Years		
	Mining Plan Period	:	5 Years		
12.	Mining Plan Details	:	As per approved Mining Plan		
	Geological Resources m ³ (RoM)	:	Rough Stone m ³	Weathered Rock m ³	Top Soil m ³
			1000744 m ³	87732 m ³	58488 m ³
	Mineable Resources m ³ (RoM)	:	Rough Stone m ³	Weathered Rock m ³	Top Soil m ³
			353641.5m ³	62157 m ³	46476 m ³
	Annual Peak Production in m ³	:	Rough Stone m ³	Weathered Rock m ³	Top Soil m ³
			105304 m ³	25312.5 m ³	18644 m ³
Maximum Depth in meters	:	35 m			
13.	Depth of water table	:	45m-50m		
14.	Man Power requirement per day:	:	15 Nos		
15.	Water requirement:	:	3.5 KLD		
	16. Drinking water	:	1.0 KLD		
	17. Utilized water	:	1.5 KLD		
	18. Dust suppression	:	1.0 KLD		


MEMBER SECRETARY
SEAC -TN

70

CHAIRMAN
SEAC- TN


	19. Green belt					
16.	Power requirement		TNEB			
17.	Precise area communication approved by Assistant Director the Department of G&M.	:	Na.Ka.No.KV1/33/2021-Kanimam, dt: 19.10.2022			
18.	Mining Plan approved by Assistant Director Department of G&M.	:	Rc.No.KV1/33/2022, dt: 06.12.2022			
19.	Department of G&M, Assistant Director 500m Cluster Letter		Rc.No.KV1/33/2022, dt: 06.12.2022			
20.	VAO Certificate Regarding Structures within 300m Radius		Dated: Nill			
21.	Project Cost (excluding EMP cost)	:	Rs.188 Lakhs			
22.	EC Recommendation	:	Restricted quantity as per approved mining plan			
				Rough Stone m ³	Weat hered Rock m ³	Top Soil m ³
			Max Total RoM in m ³	353641.5 m ³	62157 m ³	46476 m ³
			Annual Max RoM in m ³	105304 m ³	25312.5 m ³	18644 m ³


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


		:	Max Depth in mtrs	35 m
23.	EMP cost (in Rs. Lakh).	:	Capital Cost & Recurring Cost – Rs. 41.24 Lakhs Including 5% inflation cost for every year till the life of mine.	
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production shall not exceed 105304 m³ of Rough Stone & 25312.5 m³ of Weathered rock by restricting the ultimate depth of mining up to 35m BGL and for the period five Years subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
3. The PP shall appoint a statutory Mine Manager possessing the I / II Class Mines Manager Certificate of Competency (R/UR) under MMR 1961 before obtaining the CTO from the TNPCB and a copy of such appointment sent to the DMS/Chennai Region shall be furnished at the time of lease execution.


MEMBER SECRETARY
SEAC -TN

72


CHAIRMAN
SEAC- TN

4. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
5. The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the areas of drilling, blasting excavation, transportation, and green belt development, in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
6. The PP shall carry out all the blasting operations with muffle technique only so as to ensure that no flying fragments from the blast travel beyond the distance of 10 m.
7. The PP shall not carry out the deep hole larger diameter blasting and the secondary blasting of oversize fragments /boulders during the life of the lease period.
8. Considering the firework factories are located within 500m from the lease boundary, the PP shall carry out the small scale blasting involving 30 to 40 holes in a round at a time with keeping the total aggregate explosive charge/round is limited to 2 kg only in accordance with the provisions of MMR 1961.
9. However, due to presence of the structures including firework factory and highway/village roads within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations with prior permission from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air-vibrations and eliminating the fly rock from the blasting operations carried out in the quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be


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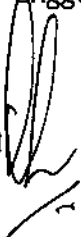
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SEAC- TN


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

10. As a part of monitoring the implementation of eco-friendly blasting operation, the PP shall monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m & 500m and near the fire work factory structures through a statutory person appointed for the purposes once in a month to ensure that the vibration level is not exceeded the DGMS permitted level. A copy of such post-monitoring report duly signed by the Mine Manager & Owner shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
11. The PP shall only carry out the blasting operation involving only NONEL (or) Electronic Detonator Initiation system for controlling the environmental impacts with posting the security guards at the Fire Work Factory and at either side of the Village road (located within a distance of 500 m) by ensuring that no vehicles are allowed to pass through the road and all persons within such area have taken proper shelter during the blasting.
12. The PP shall install a Notice Board at either side of the Village road (exists within 500 m), at a distance of 500 m indicating 'BLASTING DANGER ZONE' sign & timing of blast before obtaining the CTO from the DEE/TNPCB.
13. The PP shall inform all the residents and the fire work factories located within 500 m about the time of the blasting for alerting them to be properly sheltered and it shall be recorded in a bound paged note book kept exclusively for such 'Blasting Clearance' purposes.
14. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3rd year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg.


MEMBER SECRETARY
SEAC -TN

74


CHAIRMAN
SEAC- TN

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

15. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

16. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs and the amount shall be spent for the Panchayat Union Middle School, Nathikudi Village, before obtaining CTO from TNPCB.

Agenda No: 437 - 16

(File No.10404/2023)

Proposed Expansion of Existing Integrated Industrial Township from 130.3577 Ha to 140.509 Ha at S.F.Nos. 14, 16, 19, 152, 143/2B7, 148/2A, 151/1, etc., of Panchanthiruthi Village, S.F.Nos. 72, 78, 79, 86, 87, 88, 91, 93, 95 etc., of Kunnappattu Village, S.F.Nos. 173/5B, 174/7, 174/5, etc., of Paiyanur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu by M/s. One Hub (Chennai) Private Limited – For Environmental clearance (SIA/TN/INFRA2/455527/2023, dated:14.12.2023)


The proposal was placed for appraisal in the 437th Meeting of SEAC held on 04.01.2024. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. One Hub (Chennai) Private Limited, has applied for Environmental clearance for the Proposed Expansion of Existing Integrated Industrial Township at S.F.Nos. 14, 16, 19, 152, 143/2B7, 148/2A, 151/1, etc., of Panchanthiruthi Village, S.F.Nos. 72, 78, 79, 86, 87, 88, 91, 93, 95 etc., of Kunnappattu Village, S.F.Nos. 173/5B, 174/7, 174/5, etc., of Paiyanur Village & S.F.No.4/6 of Amur Village Thiruporur Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 8(b) "Area and Township Development Projects" of the Schedule to the EIA Notification, 2006.


MEMBER SECRETARY
SEAC -TN

75

CHAIRMAN
SEAC- TN


3. Earlier, EC was accorded to the General Manager, Apricot Realtors Pvt. Ltd vide Lr.No.SEIAA-TN/F-468/EC/8(b)/122/2012 dated.01.11.2012 for the development of Integrated Industrial Township in Chengalpattu Taluk with plot area 130.3577 Ha and built-up area 8,84,970m².
4. Later, name change amendment (from Apricot Realtors Pvt. Ltd to M/s. One Hub (Chennai) Pvt. Ltd) was issued vide Lr.No.SEIAA-TN/F-468/8(b)/EC-122-amend/2012/2016 dated.15.07.2016.
5. Now, based on the increased demand for FMCG products, the proponent has purchased an area of 25.085 acres abutting the existing site and proposes to expand the existing Integrated Industrial Township. In this regard, the proponent has submitted an application seeking Terms of Reference under 'B1' category.
6. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.10404/SEAC/8(b)/ToR-1595/2023 dated.30.10.2023.
7. The proponent submitted the EIA Report in the PARIVESH Portal on 14.12.2023.
8. EIA Consultant for the proposal is M/s.Perfact Enviro Solutions Pvt. Ltd.
9. During the meeting, the PP stated that only non-EC attracting industries/units are housed inside the project area.
10. The salient features of the proposal are as follows:

Sr. No	Description	Details
1.	Name of the Project	Proposed "Expansion of Integrated Industrial Township by M/s. One Hub (Chennai) Private Limited"
2.	Location	Existing Survey Nos. :14, 16, 19, 152, 143/2B7, 148/2A, 151/1, 5/5B (Part) of Panchanthiruthi Village. S.F. No. 72, 78, 79, 86, 87, 91, and 88, 90/2A1, 89/1, 77/1C7, 75/3B1, 67/6B2, 68/8, 67/6B1, 77/1A1, 77/1C5, 75/3B2, 77/2B, 75/1A2, 59/8D, 98/2 (Part), 98/3 (Part), 97/1 (Part), 96 (Part), 97/2 (Part), 98/1 (Part), 95 (Part), 99/1 (Part), 93 (Part) of Kunnappattu Village, S.F. No. 173/5B, 174/7, 174/5 of Paiyanur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu.


 MEMBER SECRETARY
 SEAC -TN

76

CHAIRMAN
 SEAC- TN


		Proposed expansion at S.F. Nos. 80/3U, 81/5D2A1, 81/5D2B1, 82/1, 82/2, 82/3A, 82/3C, 82/3E, 82/3G, 82/3H, 82/3I, 82/3B, 82/3D, 82/3F, 82/3J, 84/1A1, 84/1A2, 84/1B, 84/2, 85/1A, 85/1B, 85/1C, 85/2A, 85/2B of Kunnappattu Village Chengalpattu Taluk, Kancheepuram District, Tamil Nadu, Chennai.		
3.	Type of Project	Category B1 Schedule – 8(b) – Area & Township Development Projects		
4.	Latitude & Longitude	Sr. No.	Latitude	Longitude
		Existing		
		1	12°38'57.59"N	80° 8'21.42"E
		2	12°38'58.41"N	80° 8'21.90"E
		3	12°39'4.25"N	80° 8'22.35"E
		4	12°39'4.44"N	80° 8'26.57"E
		5	12°39'3.51"N	80° 8'33.03"E
		6	12°39'4.34"N	80° 8'33.34"E
		7	12°39'2.08"N	80° 8'36.65"E
		8	12°39'2.25"N	80° 8'36.77"E
		9	12°39'1.41"N	80° 8'37.95"E
		10	12°39'0.33"N	80° 8'38.91"E
		11	12°38'57.62"N	80° 8'45.00"E
		12	12°38'56.50"N	80° 8'48.21"E
		13	12°38'56.12"N	80° 8'48.52"E
		14	12°38'54.98"N	80° 8'54.16"E
		15	12°38'54.52"N	80° 8'54.20"E
		16	12°38'54.49"N	80° 8'54.62"E
		17	12°38'56.77"N	80° 8'55.93"E


MEMBER SECRETARY
SEAC -TN

77

CHAIRMAN
SEAC- TN


18	12°39'1.85"N	80° 8'57.33"E
19	12°39'4.61"N	80° 8'59.47"E
20	12°39'5.09"N	80° 9'0.24"E
21	12°39'5.96"N	80° 9'1.06"E
22	12°39'6.59"N	80° 9'1.25"E
23	12°39'7.88"N	80° 9'1.31"E
24	12°39'11.46"N	80° 9'5.30"E
25	12°39'10.08"N	80° 9'6.13"E
26	12°39'9.94"N	80° 9'7.04"E
27	12°39'10.29"N	80° 9'9.97"E
28	12°39'9.92"N	80° 9'12.06"E
29	12°39'10.10"N	80° 9'13.73"E
30	12°39'10.11"N	80° 9'14.80"E
31	12°39'12.33"N	80° 9'16.94"E
32	12°39'13.16"N	80° 9'19.27"E
33	12°39'14.47"N	80° 9'24.55"E
34	12°39'17.76"N	80° 9'25.21"E
35	12°39'17.78"N	80° 9'26.91"E
36	12°39'12.61"N	80° 9'25.96"E
37	12°39'11.12"N	80° 9'23.41"E
38	12°39'15.34"N	80° 9'42.08"E
39	12°39'15.04"N	80° 9'42.26"E
40	12°39'12.12"N	80° 9'41.40"E
41	12°39'10.09"N	80° 9'41.41"E
42	12°39'9.83"N	80° 9'41.52"E

Stanton
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SEAC -TN


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		43	12°39'9.39"N	80° 9'42.19"E	
		44	12°39'8.89"N	80° 9'42.14"E	
		45	12°39'8.07"N	80° 9'39.85"E	
		46	12°39'8.72"N	80° 9'38.94"E	
		47	12°39'8.89"N	80° 9'38.01"E	
		48	12°39'8.21"N	80° 9'36.62"E	
		49	12°39'9.86"N	80° 9'31.51"E	
		50	12°39'10.33"N	80° 9'24.59"E	
		51	12°39'7.58"N	80° 9'14.42"E	
		52	12°39'4.72"N	80° 9'14.37"E	
		53	12°39'4.70"N	80° 9'13.58"E	
		54	12°38'59.50"N	80° 9'13.53"E	
		55	12°38'57.97"N	80° 9'13.62"E	
		56	12°38'58.10"N	80° 9'15.34"E	
		57	12°38'54.97"N	80° 9'18.85"E	
		58	12°38'44.35"N	80° 9'25.78"E	
		59	12°38'33.28"N	80° 9'29.36"E	
		60	12°38'28.98"N	80° 9'29.90"E	
		61	12°38'29.03"N	80° 9'28.64"E	
		62	12°38'26.87"N	80° 9'28.37"E	
		63	12°38'27.61"N	80° 9'24.05"E	
		64	12°38'28.13"N	80° 9'19.84"E	
		65	12°38'40.13"N	80° 9'20.20"E	
		66	12°38'39.93"N	80° 9'19.27"E	
		67	12°38'40.26"N	80° 9'10.50"E	


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68	12°38'38.01"N	80° 9'9.56"E
69	12°38'37.52"N	80° 9'6.40"E
70	12°38'41.71"N	80° 9'5.20"E
71	12°38'35.64"N	80° 8'54.34"E
72	12°38'42.80"N	80° 8'53.99"E
73	12°38'43.05"N	80° 8'51.83"E
74	12°38'35.67"N	80° 8'50.90"E
75	12°38'35.78"N	80° 8'49.98"E
76	12°38'36.44"N	80° 8'49.97"E
77	12°38'36.77"N	80° 8'47.95"E
78	12°38'36.19"N	80° 8'47.86"E
79	12°38'37.05"N	80° 8'46.39"E
80	12°38'37.42"N	80° 8'45.04"E
81	12°38'37.50"N	80° 8'41.73"E
82	12°38'39.81"N	80° 8'32.63"E
83	12°38'45.38"N	80° 8'33.54"E
84	12°38'45.50"N	80° 8'32.72"E
85	12°38'46.87"N	80° 8'33.05"E
86	12°38'47.79"N	80° 8'32.86"E
87	12°38'48.65"N	80° 8'33.22"E
88	12°38'51.16"N	80° 8'33.11"E
89	12°38'52.72"N	80° 8'29.36"E
90	12°38'53.19"N	80° 8'27.39"E
Proposed		
A	12°38'38.22"N	80° 9'9.94"E


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80

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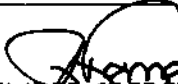

		B	12°38'39.71"N	80° 9'19.54"E	
		C	12°38'28.32"N	80° 9'18.94"E	
		D	12°38'27.83"N	80° 9'9.68"E	
5.	Total Plot Area	Total Plot Area :- i)Existing: 1303563.27 Sq.m ii)Proposed Expansion: 101515.393 Sq.m iii)Total Plot area after expansion: 1405078.66 Sq.m			
6.	Built up area details	Total Built up area :- i) Existing: 884970.00 sq.m ii) Proposed expansion: NIL iii) Total Built-up area after expansion: 884970.00 sq.m			
7.	Maximum height of the project	21m			
8.	Maximum number of floors	2			
9.	No. of blocks	NA			
10.	Permissible FSI area	NA			
11.	Proposed FSI area	NA			
12.	Cost of Project	i) Existing - 271.27 INR Crores ii) Proposed expansion - 15.81INR Crores iii)Total cost after expansion: 287.08 INR Crores			
13.	No. of Saleable Units	NA			


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81

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14.	Expected Population	21719 Nos.																																																																						
15.	a) Water requirement (in KLD)	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Particulars</th> <th>Unit</th> <th>Existing</th> <th>Proposed</th> <th>After Expansion</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Fresh Water</td> <td>KLD</td> <td>2910.16</td> <td>172.50</td> <td>3082.66</td> </tr> <tr> <td>i)</td> <td>For Domestic Use Requirement</td> <td>KLD</td> <td>1702.57</td> <td>-</td> <td>1702.57</td> </tr> <tr> <td>ii)</td> <td>For Industrial Use</td> <td>KLD</td> <td>866.59</td> <td>-</td> <td>866.59</td> </tr> <tr> <td>iii)</td> <td>For Greenbelt Development</td> <td>KLD</td> <td>341</td> <td>172.50</td> <td>513.50</td> </tr> <tr> <td>2.</td> <td>STP treated water</td> <td>KLD</td> <td>2073</td> <td>-</td> <td>2073</td> </tr> <tr> <td>i)</td> <td>For Flushing Requirement</td> <td>KLD</td> <td>544.00</td> <td>-</td> <td>544.00</td> </tr> <tr> <td>ii)</td> <td>For Reuse in Greenbelt Development</td> <td>KLD</td> <td>1529</td> <td>-</td> <td>1529</td> </tr> <tr> <td>3.</td> <td>ETP Treated water</td> <td>KLD</td> <td>785</td> <td>-</td> <td>785</td> </tr> <tr> <td>i)</td> <td>For Industrial Use</td> <td>KLD</td> <td>1574.59</td> <td>-</td> <td>708</td> </tr> <tr> <td>ii)</td> <td>For HVAC</td> <td>KLD</td> <td>77</td> <td>-</td> <td>77</td> </tr> </tbody> </table>					Sr. No.	Particulars	Unit	Existing	Proposed	After Expansion	1.	Fresh Water	KLD	2910.16	172.50	3082.66	i)	For Domestic Use Requirement	KLD	1702.57	-	1702.57	ii)	For Industrial Use	KLD	866.59	-	866.59	iii)	For Greenbelt Development	KLD	341	172.50	513.50	2.	STP treated water	KLD	2073	-	2073	i)	For Flushing Requirement	KLD	544.00	-	544.00	ii)	For Reuse in Greenbelt Development	KLD	1529	-	1529	3.	ETP Treated water	KLD	785	-	785	i)	For Industrial Use	KLD	1574.59	-	708	ii)	For HVAC	KLD	77	-	77
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ii)	For HVAC	KLD	77	-	77																																																																			
	b) Source	CMWSSB																																																																						
16.	Details of Sewage generation and Treatment	Wastewater generation – 2241.3 Sewage treatment Plant Capacity – 2500 KLD																																																																						
17.	Mode of Disposal of	Total Treated wastewater – 2073 KLD i) Toilet flushing – 544 KLD																																																																						


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SEAC -TN

82

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	treated sewage /effluent	ii) Green belt – 1529 KLD					
18.	Quantity of Solid Waste/ hazardous waste generation, Mode of treatment and Disposal	Sr. No	Solid Waste	Existing waste in TPD	Proposed waste in TPD	After Expansion waste in TPD	Disposal
		1	Auto Ancillary	1.20	0.00	1.20	Approved recycler
		2	Food & FMCG	0.40	0.00	0.40	Approved recycler
		3	Electronic & White Goods	0.20	0.00	0.20	Approved recycler
		4	Logistic	0.20	0.00	0.20	Approved recycler
		5	Ready Built factories (RBF)	0.00	0.00	0.00	Approved recycler
		Total		2.00	0.00	2.00	
19.	Other wastes	Category	Source	Quantity (TPA)	Disposal		
		E – waste	Computers, PC, other office eelectronic equipments	0.5	Approved recycler		
		Bio-medical waste	First Aid Waste from PHCs	Not generated	Appoved BMW Operator		
		Battery waste	Lead Acid Batteries	0.2	Approved recycler		
		Plastic waste	Domestic	0.5	Approved recycler		


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83

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20.	Power Requirement	Power requirement – 107 MW (Source of Power – TANGEDCO)
21.	Details of D.G. set with Capacity	2 Nos. of 1250 kVA for common services
22.	Details of Green Belt Area	Green area: Existing – 5.64 Ha Proposed – 1.52 Ha Total after Expansion – 7.16 Ha
23.	Details of OSR Area	Existing – 119786.00 Sq.m Proposed – 10151.56 Sq.m Total after expansion – 129937.56 Sq.m
24.	Details of Parking Area	-
25.	Provision for rain water harvesting	Surface runoff is diverted to the storm water drain/pits with intermediate percolation pits (148 Nos) with 1000 mm width along the site boundary.
26.	EMP Cost (Rs.)	Construction Phase of expansion Capital Cost: Rs. 40 Lakhs Operation Phase after expansion Capital cost: Rs. 47.00 Lakhs Operation cost: Rs.33.5 lakhs /annum
27.	CER Cost	Rs. 50 Lakhs /- for beautification of Tiger Lilly Lake.

RECOMMENDATION OF THE COMMITTEE

The Committee discussed the matter and recommended the proposal for grant of environmental clearance subject to the standard conditions as per the Annexure II of


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SEAC -TN

84

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SEAC- TN



this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

Additional Conditions:

1. The proponent shall furnish an affidavit stating that 8% of the overall plot area will be maintained as green belt area and further, each unit will be mandated to maintain at least 25% of their allotted area for green belt such that the total green belt area amounts to 33%.
2. Avenue plantation should be carried out in the entire stretch of approach road (4kms approx.) and sign boards on environmental awareness should be erected.
3. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
4. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
5. Project proponent is advised to explore the possibility and getting the cement in a closed container instead of through the plastic bags to prevent dust emissions at the time of loading/unloading.
6. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
7. The project proponent should develop green belt in the project area as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.


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SEAC- TN

8. Project proponent should invest the CSR/CER amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
9. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF&CC/Director of Environment and other concerning authority regularly.
10. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.
11. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.
12. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.
13. As agreed by the project proponent, the CER cost is Rs.50 Lakhs and the amount shall be utilized for the beautification of Tiger Lily Lake in consultation with Auroville Foundation.

Agenda No. 437 – 17.

File No. 10209/2023.

Existing of hot steel rolling mill S.F. No. 273/2 & 273/3 of Irukkur Village, Paramathi Valur Taluk, Namakkal District, Tamil Naduby M/s.Sri Kamala Ganapathy Steel Rolling Mills - for Amendment of Terms of Reference. (SIA/TN/IND/306417/2023 Dt: 10. 11. 2023)

The proposal was placed in 437th SEAC meeting held 04.01.2024. The details of the minutes are available in the website (parivesh.nic. in).

The SEAC noted the following

1. Earlier, the project proponent M/s.Sri Kamala Ganapathy Steel Rolling Mills has obtained Terms of Reference with public Hearing vide Lr. No. SEIAA-TN/F.No.10209/SEAC/3(a)/TOR-1553/2023 Dt:25.09.2023 for the existing of


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SEAC -TN


CHAIRMAN
SEAC- TN

hot rolling mill S.F. No. 273/2 & 273/3 of Irukku Village, Paramathi Valur Taluk, Namakkal District, Tamil Nadu for production of 1.) TMT Bars - 3800 TPM, 2.) MS Rods - 100 TPM, & MS Flats - 100 TPM with coal based hot rolling mill (coal based) under Category "B" of Item 3(a) "Metallurgical industries (ferrous & non-ferrous)" of the Schedule to the EIA Notification, 2006.

2. Now, the PP has requested for issue of amendment for Terms of Reference without Public Hearing *instead of Terms of Reference with public hearing* as per MoEF&CC Notification Dt: 20.07.2022 & MoEF&CC Notification Dt: 26.07.2023.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of amendment of Terms of Reference without Public Hearing *instead of Terms of Reference with public hearing* issued vide Lr. No. SEIAA-TN/F.No.10209/SEAC/3(a)/TOR-1553/2023 Dt:25.09.2023.


MEMBER SECRETARY
SEAC -TN

87


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SEAC -TN

ANNEXURE-I

SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED WITHIN 1 KM FROM THE RESERVE FORESTS

1. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two to three rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
2. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
3. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
4. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
5. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
6. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
7. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
8. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.


MEMBER SECRETARY
SEAC -TN


88

CHAIRMAN
SEAC- TN


9. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
10. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
11. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
12. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more or areas with a high degree of erosion on forestland.
13. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco- sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
14. The PP shall not use plastic carry bags within the quarry area.
15. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.
16. The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.


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SEAC -TN

CHAIRMAN
SEAC- TN




GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

1. The proponent shall mandatorily appoint the statutory competent persons and commence the quarry operations within the purview of Mines Act 1952.
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. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short-Term Permit (STP), Query license or any other name.
5. 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.
6. 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.
7. 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.


MEMBER SECRETARY
SEAC -TN

90


CHAIRMAN
SEAC- TN

8. 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.
9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. 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.
12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. The proponent shall ensure that the transportation of the quarried granite stones 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 granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.


MEMBER SECRETARY
SEAC -TN

91

CHAIRMAN
SEAC- TN



14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
17. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
18. 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.
19. 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.
20. 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.
21. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole


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SEAC- TN



and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

22. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

23. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.


MEMBER SECRETARY
SEAC -TN

93

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SEAC- TN


ROUGH STONE/JELLY/BLUE METAL QUARRY

- 1) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 2) 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.
- 3) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 4) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall install the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.


MEMBER SECRETARY
SEAC -TN

94

CHAIRMAN
SEAC- TN


- 8) The Proponent shall submit a conceptual 'Slope Stability Action Plan' incorporating the benches & accessible haul road approved by the concerned AD (Mines) for the proposed quarry to the DEE/TNPCB at the time of obtaining the CTO.
- 9) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are undergoing the initial/periodical medical examination in the DGMS approved OHS Clinics/Hospitals as per the DGMS Circular No. 01 of 2011 before they are engaged in mining activities.
- 10) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are provided with adequate PPEs before engaged in mining operations.
- 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 12) 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 should be adopted by considering the wind direction.
- 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 16) Perennial sprinkling arrangements 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.



MEMBER SECRETARY
SEAC -TN

95

CHAIRMAN
SEAC- TN



- 17) 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 are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 18) 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.
- 19) 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. 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.
- 20) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
- 21) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 22) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the


MEMBER SECRETARY
SEAC -TN

96

CHAIRMAN
SEAC- TN


houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.

23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.

24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.

25) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

26) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

27) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.

28) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.

29) 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.


MEMBER SECRETARY
SEAC -TN

97

CHAIRMAN
SEAC- TN 

- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones 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 granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 32) 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.
- 33) 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.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 36) 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.


MEMBER SECRETARY
SEAC -TN

98

CHAIRMAN
SEAC- TN


- 37) 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.
- 38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 40) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
- 41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.


MEMBER SECRETARY
SEAC -TN

99

CHAIRMAN
SEAC- TN


SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WINDMILLS


Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
1.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.
2.	Special precautions are to be taken during blasting within danger zone such as posting guards, etc.	Blast design parameters should be mentioned in mining plan/scheme. and may be reviewed by a competent mining engineer.
3.	Blast design parameters should be mentioned in mining plan/scheme.	MCPD and total charge should be fixed such that it should not exceed 1.3 kg and 26.50 kg respectively.
4.	The recommendations of scientific organisation need to be incorporated in the mining plan/scheme before its approval.	Fresh scientific study may be conducted if mine management wants to increase the MCPD and total explosive charge above the quantity of 1.30 kg and 26.50 kg respectively. Continuous monitoring using seismograph should also be done in such cases by the mine management.
5.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.
6.	Training of the blasting crew on controlled blasting practices before engaged in operation.	Training of the blasting crew on controlled blasting practices before engaged in operation.


MEMBER SECRETARY
SEAC -TN

100


CHAIRMAN
SEAC -TN

7.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, PESO or SPCB.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, SPCB. Report of recorded ground vibration need to be added in monthly report.
8.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.
9.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.
10.	Electronic (or) Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.	Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.
11.	Max. number of holes in a round: 30.	Max. number of holes in a round: 40 to 60.



MEMBER SECRETARY
SEAC -TN

101


CHAIRMAN
SEAC- TN

TERMS OF REFERENCE (TOR) FOR GRANITE / ROUGH STONE QUARRY

1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:
 - (i) Original pit dimension
 - (ii) Quantity achieved Vs EC Approved Quantity
 - (iii) Balance Quantity as per Mineable Reserve calculated.
 - (iv) Mined out Depth as on date Vs EC Permitted depth
 - (v) Details of illegal/illicit mining
 - (vi) Violation in the quarry during the past working.
 - (vii) Quantity of material mined out outside the mine lease area
 - (viii) Condition of Safety zone/benches
 - (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m.
2. 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.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.


MEMBER SECRETARY
SEAC -TN

102


CHAIRMAN
SEAC- TN

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.
7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.
8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.


MEMBER SECRETARY
SEAC -TN

103

CHAIRMAN
SEAC- TN



12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
14. Quantity of minerals mined out.
 - Highest production achieved in any one year
 - Detail of approved depth of mining.
 - Actual depth of the mining achieved earlier.
 - Name of the person already mined in that leases area.
 - If EC and CTO already obtained, the copy of the same shall be submitted.
 - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,
17. 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.
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.


MEMBER SECRETARY
SEAC -TN

104

CHAIRMAN
SEAC- TN



19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells 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.
21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to


MEMBER SECRETARY
SEAC -TN

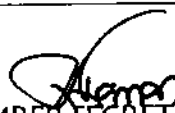
105

CHAIRMAN
SEAC- TN



encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
28. Impact on local transport infrastructure due to the Project should be indicated.
29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
32. 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-I in consultation with the DFO, State Agriculture University. The plant species with


MEMBER SECRETARY
SEAC -TN

106

CHAIRMAN
SEAC- TN


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.

33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project


MEMBER SECRETARY
SEAC -TN

107

CHAIRMAN
SEAC- TN


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Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.


MEMBER SECRETARY
SEAC -TN

108

CHAIRMAN
SEAC- TN



Annexure II


Standard Environmental Clearance Conditions prescribed by MoEF&CC for Construction Projects.

1. Statutory Compliance:

1. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightning etc.
3. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
4. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
6. The project proponent shall obtain the necessary permission for drawing of ground water / surface water required for the project from the competent authority.
7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation


MEMBER SECRETARY
SEAC -TN

109

CHAIRMAN
SEAC- TN


Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

2. Air quality monitoring and preservation:

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.
4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.
6. Wet jet shall be provided for grinding and stone cutting.


MEMBER SECRETARY
SEAC -TN

110

CHAIRMAN
SEAC- TN


7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.
8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
11. For indoor air quality the ventilation provisions as per National Building Code of India.

3. Water Quality Monitoring and Preservation:

1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.
2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3. Total freshwater use shall not exceed the proposed requirement as provided in the project details.
4. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).


MEMBER SECRETARY
SEAC -TN

111


CHAIRMAN
SEAC- TN



5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
6. At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
12. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5.000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement


MEMBER SECRETARY
SEAC -TN

112

CHAIRMAN
SEAC- TN


shall be provided. In areas where ground water recharging is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.

13. All recharges should be limited to shallow aquifer.
14. No ground water shall be used during construction phase of the project.
15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
16. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).
17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed into municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be taken to mitigate the odor problem from STP.


MEMBER SECRETARY
SEAC -TN

113

CHAIRMAN
SEAC- TN


21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

4. Noise Monitoring and Prevention:

1. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
2. Noise level survey shall be carried out as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of Half Yearly Compliance Report (HYCR).
3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

5. Energy Conservation Measures:

1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
4. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting


MEMBER SECRETARY
SEAC -TN

114

CHAIRMAN
SEAC- TN


design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

5. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.
7. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

6. Waste Management:

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
2. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN



5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.
8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
9. Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.
10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

7. Green Cover:

1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.


MEMBER SECRETARY
SEAC -TN

116

CHAIRMAN
SEAC- TN



3. Where the trees need to be cut with prior permission from the concerned local authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
5. A wide range of indigenous plant species should be planted as given in the Appendix-1, in consultation with the Government Forest/Horticulture Departments and State Agriculture University.

8. Transport:

1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
2. Vehicles hired to bring construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms


MEMBER SECRETARY
SEAC -TN

117

CHAIRMAN
SEAC- TN


radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

9. Human Health Issues:

1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
2. For indoor air quality the ventilation provisions as per National Building Code of India.
3. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
4. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
5. Occupational health surveillance of the workers shall be done on a regular basis.
6. A First Aid Room shall be provided in the project both during construction and operations of the project.

10. Corporate Environment Responsibility:

1. The PP shall complete the CER activities, as committed, before obtaining CTE.


MEMBER SECRETARY
SEAC -TN

118

CHAIRMAN
SEAC- TN


2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of Half Yearly Compliance Report (HYCR).
3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Half Yearly Compliance Report (HYCR).

11. Miscellaneous:

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.


MEMBER SECRETARY
SEAC -TN


CHAIRMAN
SEAC- TN

3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit Half Yearly Compliance Reports (HYCR) on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
6. The project proponent shall inform the Authority (SEIAA) of the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also during their presentation to the State Expert Appraisal Committee.
9. No further expansion or modifications to the plant shall be carried out without prior approval of the Authority (SEIAA).
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Authority (SEIAA) may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.


MEMBER SECRETARY
SEAC -TN

120

CHAIRMAN
SEAC- TN


13. The Regional Office of the MoEF&CC Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.



MEMBER SECRETARY
SEAC -TN

121



CHAIRMAN
SEAC- TN

Appendix - I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விளம்ப
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சள், ஆமாக்கொம்பிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாழை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentos</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	கட்டிமர
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax caba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Pannai	பன்னை
13	<i>Cassia fistula</i>	Serakondrai	சேரகொண்டரை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொண்டரை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரச மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கொங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நடுவழி
18	<i>Cratere adansoni</i>	Mavalingum	மாவிளம்பம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சீறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்கலி
22	<i>Diospyro schloroxylon</i>	Vagarai	வாகரை
23	<i>Ficus amplissima</i>	Kallichi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆத்ரபூவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில் மரம், ஆயிலி
27	<i>Lannea coromandelica</i>	Odhiam	ஒத்தியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கெட்டிமரம் மரம்
30	<i>Limonia acidissima</i>	Vile maram	வில்லி மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுணா
38	<i>Phoenix sylvestre</i>	Eachai	ஏச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்


MEMBER SECRETARY
SEAC -TN

CHAIRMAN
SEAC- TN


40	<i>Premna mollissima</i>	Munnai	முண்டை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முண்டை
42	<i>Premna tomentosa</i>	Mahipoovarasu	மாலை முண்டை
43	<i>Prosopis cinerea</i>	Vanni maram	வாணி மரம்
44	<i>Pterocarpus marsapium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்டிங்க
46	<i>Pterospermum xylocarpum</i>	Polavu	புலாவ
47	<i>Puthranjiza roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகை மரம்
49	<i>Sapindus emarginatus</i>	Maripungan, Soapukai	மாறிப்புகை சொப்புகை
50	<i>Saraca asoca</i>	Asoca	அசுகை
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yeti	யெடி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தங்க கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்திரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருத்து
57	<i>Toona ciliate</i>	Sandhana vembu	சந்தான வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	புவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்சூரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்கப்பூசி


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