

STATE EXPERT APPRAISAL COMMITTEE - TAMIL NADU

Minutes of the 123rd Meeting of the State Expert Appraisal Committee (SEAC) held on 21st December 2018 for Appraisal of Synthetic Organic Chemicals, Building and Construction Projects, Cement plants, Townships and Area Development projects, Mining Projects, Isolated storage & handling of hazardous chemicals (As per threshold planning quantity indicated in column 3 of schedule 2 & 3 of MSIHC Rules 1989 amended 2000) & Common Biomedical Waste Treatment Facility at Conference Hall, 2nd floor (down), Panagal Maligai, Saidapet, Chennai.

Agenda No. 123-01:

Proposed expansion of Silicones and Silicone derivatives manufacturing plant by M/s. Momenive Performance Materials Pvt.Ltd located at B-3, SIPCOT Industrial Growth Centre, Oragadam Village, Sriperumbudur Taluk, Kancheepuram District - for Environmental Clearance

(SIA/TN/IND2/1036/2015)

The project proponent gave a detailed presentation on the salient features of the project and informed that:

1. The total site area is 61107 sq.mts (15.10 acres) and the built up area is 17042 sq.m. The break up details for the building are as follows for the existing and the proposed :

Existing

- a. Built up area - 14070 sq.m
- b. Green belt area - 20153 sq.m
- c. Storage and Utilities - 12140 sq.m
- d. Roads and Pathways - 3035 sq.m

- e. Vacant area (for future expansion) - 11709 sq.m

Total area - 61107 sq.m

After Expansion

- a. Built up area - 17042 sq.m
- b. Green belt area - 20369 sq.m
- c. Storage and Utilities - 12140 sq.m
- d. Roads and Pathways - 3035 sq.m
- e. Vacant area (after expansion) - 8521 sq.m

Total area - 61107 sq.m

- 2. The green belt is 20369 Sq.m(33.33% of the total area).
- 3. Products Capacity after expansion :
 - a. Silicone and Silicone Derivatives - 2600 MT/month
 - b. Speciality coatings - 104 MT/month
 - c. Synthetic resins - 100 MT/month
 - d. Urethane Additives (catalyst & Additives) - 100 MT/month
 - e. Sealants/Compounding - 125 MT/month

- 4. Raw material requirements:

Silicone Fluids

- a. Silicone Monomer - 277.85 MT/Month
- b. Additive - 24.6 MT/Month
- c. Low MW Silicone fluid - 237.4 MT/Month
- d. Catalyst - 0.615 MT/Month
- e. Amine - 37.78 MT/Month
- f. Water - 22 MT/Month
- g. Neutralizer - 0.15 MT/Month

Total - 600 MT/Month

Emulsions

- a. Silicone Fluids - 150 MT/Month
- b. Additive - 15.0 MT/Month
- c. Water - 260 MT/Month
- d. Surfactant - 75 MT/Month

Total - 500 MT/Month

5. Source of water is from SIPCOT. The total water requirement is 231 KLD and the break up are as follows:

a. Process utilization - Existing -25 KLD

Proposed - 25 KLD

b. Boiler make up - Existing -70 KLD

Proposed - 70 KLD

c. Cooling tower make up - Existing -120 KLD

Proposed - 107KLD

d. Off gas systems and other floor washings - Existing - 5 KLD

Proposed - 7KLD

e. Domestic - Existing -11 KLD

Proposed - 22 KLD

Total - 231 KLD

6. Momentive proposed to change the water cooling tower to air cooling system due to this the water requirement of the Cooling tower reduced from 120 KLD to 107 KLD.

7. The domestic sewage that would generate is approximately 18 KLD. It will be treated through Sewage Treatment Plant with capacity of 11 KLD.

8. Treated water is reused for process, greenbelt, RO reject sent to MEE/Spray drier.

9. Effluent generated from the process is 56.24 KLD treated in existing Effluent Treatment Plant.

10. Resource requirement:

a. Power and fuel requirement - Existing - 1700 KW

After expansion - 2100KW

b. Power back up through DGs - Existing - 2x700 KVA

After expansion - 2x700 KVA



c. Boiler - Existing - 2x 105 TPH

After expansion - 2x1.5 TPH

d. Cooling tower - Existing - 1500 TR

After Expansion - 1500 TR

e. Man Power - Existing - 250

After expansion - 500

11. Details of Hazardous waste :

Hazardous Waste	Existing Quantity(TPA)	Proposed Quantity (TPA)	Disposal Methods
Spent oil	13.5	13.5	Reselling to Authorized Recyclers
Cotton waste & used gloves contaminated with silicone oil residue	20	60	Disposed to Common incineration facility at Gummidipoondi, Chennai
Silicone residues (process waste)	26	52	
Treated ETP solid waste	20	20	
Spent solvents	150	400	
Discarded containers/barrels/liners	400	400	Authorized recyclers
Spent oil	629.5	945.5	

The SEAC noted the following:

1. The project proponent M/s. Momentive Performance Materials Pvt.Ltd has applied for seeking environmental clearance with EIA report to SEIAA-TN on 26.07.2018 for proposed expansion of Silicones and Silicone derivatives manufacturing plant by M/s. Momentive

Performance Materials Pvt.Ltd located at B-3, SIPCOT Industrial Growth Centre, Oragadam Village, Sriperumbudur Taluk, Kancheepuram District.

2. The project/activity is covered under Category "B1" of Item 5(f) "Synthetic Organic Chemical" of the Schedule to the EIA Notification, 2006.
3. First Environment Clearances was obtained from MoEF&CC for the production capacity of 917 MT/Month on 01.04.2008.
4. Second Environment Clearances was obtained from MoEF&CC for the expansion in the production capacity from 917 MT/Month to 1104 MT/Month on 07.12.2012.
5. The proponent has submitted the compliance report from the regional office, MoEF&CC, chennai for the environment Clearances accorded by MoEF&CC on 07.12.2012.
6. The project proponent has applied and obtained Terms of References from SEIAA-TN for the expansion in the production capacity from 1104 MT/Month to 3029 MT/Month on 30.05.2017.
7. The proponent has applied along with EIA report with the compliance report of ToR to SEIAA-TN.

The proposal was placed in the 123rd SEAC Meeting held on 21.12.2018. The proponent made a presentation about the project proposal. Based on the presentation made by the proponent and the documents furnished, the committee decided to defer the proposal for want of following details:

1. Concurrences order from the SIPCOT for the expansion capacity within the SIPCOT as per the Terms of Reference issued to the unit.
2. Water balance for the existing project and revised water balance for proposed project and after expansion of project(i.e. total water balance after expansion)
3. Iso Propyl Alcohol (IPA) handling details for existing, proposed and after expansion of project. How the used solvents are recovered & reused and disposed as spent solvent.
4. The proposed expansion is very less. Then, Why the domestic use of water is doubled for the proposed expansion (i.e from 11 KLD to 22 KLD) . The proponent shall clarify the same.
5. The detail about salt handling in the MEE shall be furnished.
6. Performance of the existing STP, ETP, Air pollution control measures and solid waste handling methodology shall be furnished.
7. Authenticated production detail for last 3years.
8. Water requirement per unit or per kg of product shall be furnished.
9. Concern letter from SIPCOT for water supply for the existing and proposed activity.
10. Hydro Carbon and Volatile Organic Chemicals (VOC) monitoring data shall be furnished.
11. What are the pollutant present in the effluent and characteristics of the effluent?
12. Consolidated ROA of stack/AAQ monitoring data of TNPCB.

13. The proponent shall furnish the necessary NOC from the competent authorities to store and handle the various solvents (for both existing and proposed) in the unit premises.
14. The unit shall provide the detail of Hazardous waste disposal details for the last five years with authenticated proof.
15. Greenbelt development area with GPS Co-ordinates of all corners of the greenbelt area to compare the area of greenbelt mentioned in the plant layout. Also with the no. of species, name and suitability for the local area as per CPCB guidelines for green belt development.
16. Furnish the GPS Co-ordinates of all corners of the boundary of the site.
17. The unit shall furnish the adequacy report for the all the existing/proposed STP & ETP obtained from the reputed Institution like IIT /Anna University / NEERI or any other reputed government institutions.
18. The proponent shall furnish the detailed report for the solutions which are used or proposed to use (i.e both existing and proposed) in the scrubber to remove the toxic components present in the processes emission.
19. The proponent shall furnish the Report of Analysis of AAQ survey, stack survey, VOC monitoring conducted by TNPCB for the last 3years.
20. The proponent shall furnish the Report of Analysis of the inlet and outlet of STP and ETP for all the organic components, heavy metals and other standard parameters from the NABL accredited Lab.
21. Environmental Cell details shall be provided with Designation and Qualification.



CHAIRMAN
SEAC-TN

22.Periodic health check up report about the silicone exposure and other chemicals which are used in the industry for the employees for the last 5 years shall be furnished.

Agenda No. 123-02:

Proposed construction of residential building by M/s. Casa Grande Axiom Private Limited at S.No.153/1, 153/2, 171/1, 171/12A, 172/1B1, 172/1B2, 172/1C1, 172/1C2, 172/2A, 172/2B, 172/2C & 180/1 of Ottiyambakkam Village, Sholinganallur Taluk, Kancheepuram District - for Environmental Clearance

(SIA/TN/NCP/85267/2018)

The project proponent gave a detailed presentation on the salient features of the project and informed that:

1. Plot area is 18512.351m² in which Area gifted for Road is about 2016.254m² to CMDA, so the Net plot area for development is 16496.097 m² in which 6 blocks (stilt + 4 floors) and a block - club house (ground + 3 floors) with swimming pool, in total 7 blocks to be constructed with total built up area of 30712.22 m² . Area for Roads and Pavement is 5533.1 m² with 2474.41 m² of greenbelt area (15% of net land area for development) and 1650 m² of OSR area (10% of net land area for development).
2. The project is located at 12°51'51.57"N Latitude, 80°11'47.61"E Longitude.
3. This proposal comprises of 260 dwelling units with population of about 1430 Nos.