

**MINUTES OF THE 24th MEETING OF
THE STATE EXPERT APPRAISAL COMMITTEE (SEAC)
CONVENED ON 05.12.2018 and 06.12.2018 AT 10.00 A.M.
IN THE CONFERENCE HALL OF THE
DR. ABDUL KALAM SCIENCE CENTRE AND PLANETARIUM, PUDUCHERRY.**

The list of members attended is enclosed as Annexure – I.

Agenda Item No. 1: Confirmation of the Minutes of the 23rd meeting of the SEAC convened on 18.09.2018.

The Committee confirmed the minutes of the previous meeting.

Agenda Item No. 2: Examination of Project proposals under the provisions of the EIA Notification, 2006 and its subsequent amendments for onward appraisal to the SEIAA for further examination to consider issue of Environmental Clearances:

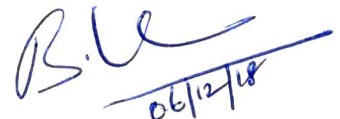
1. Proposal for Environmental Clearance submitted by M/s. Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry for additional construction of Hospital Building.

The committee discussed the proposal in detail with the project proponent and also inspected the site on 05.12.2018. The following were present on behalf of the project proponent:

- (i) Dr. K.C. Premarajan, Project Co-ordinator, JIPMER, Puducherry.
- (ii) Er. P. Thomas, Project Manager, HITES, Puducherry.
- (iii) Thiru. A. Dhamodharan, EIA Co-ordinator, M/s. Eco Tech Labs Pvt. Ltd., Chennai.

Thiru. A. Dhamodharan, EIA Co-ordinator, M/s. Eco Tech Labs Pvt. Ltd., Chennai made a presentation on the salient features of the project.

The project involves construction of hospital complex (Super Specialty Block, Screening OPD Block) and JIPMER International School of Public Health at R.S. No. 213/1 and 218 part in Thattanchavady Village, Puducherry Taluk, Puducherry District in the existing premises of M/s. Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Puducherry. The said project / activity is covered under category B2 of item 8 (b) of Schedule to the EIA Notification, 2006.

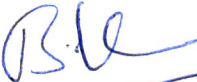

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The project details are stated below in brief:

Total Land Area	7,77,620.80 Sq.m.
Built up area of Hospital Component	Existing = 1,21,699.60 Sq.m Proposed = 27,217.00 Sq.m. Total = 1,48,916.60 Sq.m.
Built up area of Non-Hospital Component	Existing = 1,78,270.40 Sq.m. Proposed = 13,552.00 Sq.m. Total = 1,91,822.40 Sq.m.
Green Belt	1,55,524.16 Sq.m. (20%)
Power requirement	Present use – 5150 KVA & Further need – 2627 KVA
Source of power	Puducherry Electricity Department
Power backup	Existing : 3 x 750 KVA and 2 x 250 KVA DG Set. Proposed: 1 x 625 KVA, 2 x 750 KVA and 2 x 250 KVA DG Set.
Water requirement	Existing : 767 KLD fresh water Additional Proposed: 437 KLD (317 KLD fresh water + 120 KLD recycled water)
Water Source	Ground Water – 767 KLD Existing + 317; Total 1084 KLD Totally 9 borewells are present.
No of beds proposed	326
Waste Water Generation	Existing : 699 KLD Proposed additional : 365 KLD Total: 1064 KLD Existing STP capacity : 1 x 320 KLD and 1 x 380 KLD Proposed STP capacity: 2.4 MLD Hospital effluent generation of 45 KLD will be treated separately in 50 KLD ETP proposed. About 120 KLD treated water will be recycled for toilet flushing and balance 891 KLD will be used for gardening.
Air Emissions	Emissions from DG Sets.
Solid Waste	Total Solid Waste generation is 2668.35 Kgs/Day. Out of this, Organic Waste of 1300 Kgs./day to be treated in Organic Waste Converter within the project site. Inorganic Waste to be segregated and sold to recyclers. STP Sludge – 43 Kgs./day to be used as manure for green belt development.
Bio-Medical Waste	1564 Kgs./day - disposed to M/s. Pondicherry Solid Waste Company Limited, Thuthipet, Puducherry following Bio Medical Waste Management Rules, 2016.
Project Cost	Rs. 156.19 Crores

This proposal was earlier discussed in the 22nd meeting of SEAC held on 25.06.2018 and 18th meeting of SEIAA held on 29.08.2018. It was observed that the construction of additional hospital buildings is fully completed without prior Environmental Clearance as per the Project Proponent's own letter dated 03.05.2018 uploaded in the Environmental Clearance web portal. The project proponent had applied for Environmental Clearance only on 10.03.2018 after completion of construction activities. Subsequently the project proponent had submitted a revised application for Terms of Reference (ToR) on 25.05.2018. Hence, in terms of the provisions of the MoEF&CC Notification dated 14th March, 2017 and 8th March, 2018 it was confirmed to be a case of violation of the EIA Notification, 2006. Considering the above, specific TOR was issued on 26.09.2018 with conditions to undertake EIA studies with a separate chapter on assessment of ecological damage, remediation plan and natural and community resource augmentation plan shall be prepared in the environment impact assessment report.

During this meeting, the ToR given to the project proponent and its compliance status was reviewed by the Committee. The committee observed that the new construction is within the already developed JIPMER campus which is sprawling over a large area of about 70 Hectares. JIPMER is an Institute of national importance and a tertiary care referral hospital that is under the direct administrative control of Directorate General of Health Services (DGHS), Ministry of Health and Family Welfare, Government of India. The present building construction is in the midst of already developed area where several buildings are located and therefore only minimum localized impacts like noise and dust is expected during construction phase. Adequate protection measures are normally taken during construction phase as this is a hospital-cum-medical institution where thousands of people visit. There were no significant impacts on the ecology and environment of the surrounding area. The project proponent has removed 38 trees for the construction of Screening OPD Block and Super Speciality Block after obtaining necessary permission from the Department of Forest and Wildlife, Government of Puducherry vide No. 03/F&WL/AO/2014-15/349 dated 15.04.2014 for which necessary compensatory afforestation has been carried out within the premises.


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After detailed deliberations, the Committee resolved that the proposal shall be recommended to SEIAA for issue of Environmental Clearance with following specific conditions along with other general conditions:

- (i) The total water requirement shall not exceed 1084 KLD and necessary approval shall be obtained from the Puducherry State Ground Water Authority.
- (ii) The Bio medical liquid waste generation shall not exceed 45 KLD and shall be treated in separate ETP.
- (iii) The domestic waste water generation shall not exceed 1064 KLD and it shall be treated in the STP of capacity 2.4 MLD.
- (iv) The treated wastewater shall conform to the standards stipulated under the Environment (Protection) Rules, 1986 as amended vide G.S.R. 1265(E) dated 13th October, 2017 and monthly monitoring of treated wastewater quality shall be carried out through NABL accredited laboratory.
- (v) Treated waste water shall be recycled / reused for cooling make up water, toilet flushing and horticulture within building premises. No waste water shall be discharged outside the premises.
- (vi) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards.
- (vii) Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- (viii) The project proponent shall take all necessary steps to ensure that bio-medical waste (1564 Kgs./day) is handled without any adverse effect to human health and the environment and in accordance with the Bio-Medical Waste Management Rules, 2016 and shall be safely handed over to authorized Bio Medical Waste disposal facility for final disposal.
- (ix) The project proponent shall make a provision within the premises for a safe, ventilated and secured location for storage of segregated biomedical waste in colored bags or containers in the manner as specified in Schedule I of the Bio-Medical Wastes Management Rules, 2016 to ensure that there shall be no secondary handling, pilferage of recyclables or inadvertent scattering or spillage by animals and the bio-medical waste from such place or premises shall be directly transported in the manner as prescribed in these rules to the common bio-medical waste treatment

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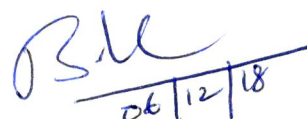
facility or for the appropriate treatment and disposal, as the case may be, in the manner as prescribed in Schedule I of the said rules.

- (x) Solid Waste shall be managed as per the Solid Waste Management Rules, 2016.
- (xi) A Committee shall be constituted with Medical Superintendent as Head to monitor the effective implementation of Bio-medical Waste Rules and proper training shall be given to all the staff involved and records to be maintained.
- (xii) Organic waste shall be treated in Organic Waste Converter / Biogas plant and the gas generated shall be used as fuel for cooking / energy production.
- (xiii) Continuous Online Effluent Monitoring System shall be installed for all the parameters including flow mentioned in the Water consent issued by the PPCC and data shall be provided to PPCC and CPCB through cloud based web portal technology.
- (xiv) The project proponent shall take time bound action to install solar lighting for common areas and street lights in the existing buildings immediately and also for proposed new building.
- (xv) The existing 20 percentage of green belt area shall be enhanced to 33 percentage.
- (xvi) The project proponent shall provide additional rain water harvesting systems viz., Rain water collection ponds with recharge wells for maximizing ground water recharge potential.
- (xvii) At least 1 % of the total project cost shall be allocated for activities under Corporate Environment Responsibility (CER) as per Ministry's O.M. No. 22-65/2017-IA.III dated 1st May, 2018 for various activities therein. The details of activities proposed shall be intimated to Puducherry Pollution Control Committee and Regional Office of the MoEF&CC.

2. Proposal for Environmental Clearance submitted by M/s. Standard Electro and Surfa Chem, Villianur, Puducherry for synthesise of Linear Alkyl Benzene Sulphonic Acid (LABSA)

The committee discussed the proposal in detail with the project proponent and also inspected the site on 05.12.2018. The following were present on behalf of the project proponent:

- (i) Thiru. C. Chanemougame, Partner, M/s. Standard Electro and Surfa Chem, Puducherry.


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- (ii) Thiru. Yashwant Bardia, V.P. (Technical), M/s. EQMS India Pvt. Ltd., Delhi.
- (iii) Ms. Vigneshwari, Consultant, M/s. EQMS India Pvt. Ltd., Delhi.
- (iv) Thiru. A. Dhamodharan, EIA Co-ordinator, M/s. Eco Tech Labs Pvt. Ltd., Chennai.

Ms. Vigneshwari, Consultant, M/s. EQMS India Pvt. Ltd., Delhi made a presentation on the salient features of the project.

The project involves establishment of small scale Linear Alkyl Benzene Sulphonic Acid (LABSA) manufacturing industry with production Capacity of 51.84 TPD LABSA along with 41.47 TPD spent H₂SO₄ as by-product. Process involves Sulphonation of Linear Alkyl Benzene (LAB). The project is located within exiting industrial estate at Plot Nos. A-8 and 18, PIPDIC Industrial Estate, Sedarapet, Puducherry. The project site is within 5 kms of Ousteri Bird Sanctuary which is a notified wild life protected area and within 5 kms of interstate boundary.

The project is covered under 5(f) Synthetic Organic Chemicals Industry in the Schedule to EIA Notification, 2006 and falls under B2 Category (as per OM vide F. No. 22-76/2017-IA.III dated 13 February 2018 as the process requires 4 KLD Fresh water (i.e. less than 25KLD) and requires no fossil fuel burning and does not fall under MAH Unit Classification. The project proponent has initially submitted an Environmental Clearance vide Online Application No. IA/PY/IND2/80753/2018 to MoEF&CC as the project lies in interstate boundary and within 5 km area of Ousteri Bird Sanctuary which is a protected area, as such the project attracts General Condition. In response MoEF&CC has advised the project proponent to apply to SEIAA as it is category B project vide Essential Detail Sought (EDS) dated 11.10.2018 in the online portal. Hence the project proponent has submitted application to SEIAA.

The project details are stated below in brief:

Type of Project	Synthetic Organic Chemicals 5 (f); Category B2
Production details	LABSA – 51.84 TPD Spent H ₂ SO ₄ – 41.47 TPD
Total Land Area	2100 Sq.m.
Built up area	1180.42 Sq.m.
Green Belt	695 Sq. m. (33.9%)
Power requirement	119 HP
Source of power	Puducherry Electricity Department
Water requirement	4000 LPD

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Water Source	PIPDIC water supply
Waste Water Generation	Industrial effluent – Nil Domestic – 400 LPD (disposed through Septic Tank and Soak Pit)
Air Emissions	No emission sources from process
Solid Waste	No solid waste from process
Project Cost	Rs. 175 Lakhs

The committee during inspection noted that this is a small scale industry proposed in existing industrial estate. This is a medium pollution potential unit and there is no specific source of effluent generation / air emission. Fugitive emission from reactor, storage tanks and chemical spillages from pipelines and pumps may occur for which proper treatment needs to be provided. The project proponent has to take adequate safety measures during handling and storage of acids and other chemicals.

After detailed deliberations, the Committee decided to recommend the proposal to SEIAA for Environmental Clearance subject to following conditions:

- (i) No ground water shall be used for the project.
- (ii) Total water consumption for the proposed products after expansion shall be 4000 litres/day which shall be piped water to be supplied by PIPDIC. The water meter shall be installed and maintained regularly.
- (iii) There shall not be any industrial wastewater discharge from the plant. Only domestic wastewater 400 liters/day shall be generated which shall be discharged in to septic tank and soak pit.
- (iv) The spent acid generated from the process shall be sold to the actual users as a raw material. Both the units (Spent acid generating and receiving) shall obtain authorization of PPCC for the same. The records of the Spent acid generation and sold shall also be maintained in the printed log book.
- (v) There shall be no process gas emission from the plant.
- (vi) All the vents of Sulphuric Acid storage tank shall be provided with vent scrubbers.
- (vii) Eco Air Ventilation System (EAVS) shall be provided in the roof of the process area.
- (viii) All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of acids in addition to other chemicals.
- (ix) All the acid storage tanks shall be fitted with appropriate controls to avoid any leakages. Close handling system for chemicals shall be provided. Double mechanical

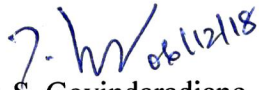
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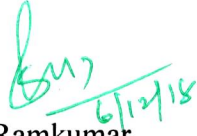
seals shall be provided to pumps / agitators for reactors for reduction of fugitive emissions and leakages.

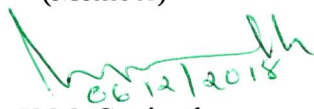
- (x) Adequate dyke walls, sumps, electric pumps etc. shall be provided to the acid storage tanks as per the guidelines of the Chief Inspector of Factories.
- (xi) Any spillages / leakages / wash water contaminated with chemicals shall be collected properly and treated in Effluent Treatment Plant (ETP) with neutralization unit and completely recycled back to the process / cooling tower. There shall be no discharge in to the surrounding environment.
- (xii) Personal Protective Equipment, eye wash fountains and showers shall be provided to workers and its usage shall be ensured and supervised.
- (xiii) Adequate fire extinguishing facilities shall be provided as per norms.
- (xiv) Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
- (xv) Occupational health surveillance of the workers shall be done periodically and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken on regular basis as per Factories Act & Rules.
- (xvi) Green Belt of not less than 33 per cent shall be provided in the plot area.

Agenda Item No. 3: Any other item with the permission of the Chairman – Nil.

The meeting ended with vote of thanks to the chair.



Dr. S. Govindaradjane
(Member)



Dr. S. Ramkumar
(Member)


Dr. K.M. Gopinathan
(Member)


Dr. K. Sambandan
(Member)


Dr. P. Kavita Vasudevan
(Member)


Dr. R. Sagaya Alfred
(Secretary)


Dr. B. Kumaran
(Chairman)

ANNEXURE - I

Sl. No.	Name and Designation of the Members Present		
	<u>Tvl.</u>		
1.	Dr. B. Kumaran, Principal Indira Gandhi College of Arts and Science Kathirkamam, Puducherry – 605 009.	-	Chairman
2.	Dr. S. Govindaradjane, Professor Department of Civil Engineering Pondicherry Engineering College Puducherry – 605 014.	-	Member
3.	Dr. S. Ram Kumar, Dean Rajiv Gandhi Institute of Veterinary Education and Research Kurumbapet, Puducherry – 605 009.	-	Member
4.	Dr. K.M. Gopinathan, Associate Professor & Head Department of Zoology Mahatma Gandhi Government Arts College New Mahe – 673 311.	-	Member
5.	Dr. K. Sambandan, Assistant Professor & Head Department of Botany Arignar Anna Government Arts and Science College Karaikal – 609 605.	-	Member
6.	Dr. P. Kavita Vasudevan, Professor and Head Department of Community Medicine Indira Gandhi Medical College and Research Institute Kathirkamam, Puducherry – 605 009.	-	Member
7.	Dr. R. Sagaya Alfred Senior Scientific Officer Department of Science, Technology and Environment 3 rd Floor, PHB Building, Anna Nagar Puducherry – 605 005.	-	Secretary