

**MINUTES OF THE 16<sup>TH</sup> MEETING OF  
THE STATE EXPERT APPRAISAL COMMITTEE (SEAC)  
CONVENED ON 03.11.2014 AT 10.00 A.M. IN  
THE CONFERENCE HALL, PHB, PUDUCHERRY**

The lists of members attended are enclosed as Annexure - I.

**Agenda Item No.1: Confirmation of the minutes of the 15<sup>th</sup> meeting of the SEAC convened on 24.07.2014.**

The Committee confirmed the minutes of the previous meeting.

**Agenda Item No.2: Action taken report on the minutes of the 15<sup>th</sup> meeting of the SEAC held on 24.07.2014.**

**1. Proposed housing project (Heera Garden – Green City) at Koodapakkam Revenue Village, Villianur Commune Panchayat, Puducherry by Thiru K. Dinesh Kumar.**

The Committee noted that communication letter dated 05.08.2014 had been sent to the project proponent as per the decision of the 15<sup>th</sup> Meeting of SEAC held on 24.07.2014 stating that the proposal is treated as closed and for obtaining Prior Environmental Clearance fresh application has to be submitted.

**2. Proposed RAAK College of Engineering and Technology at Sulthanpet, Villianur, Puducherry.**

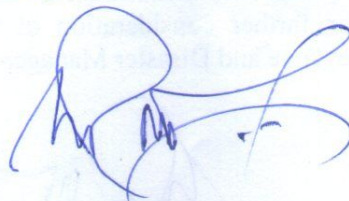
The Committee after due deliberation decided to give final opportunity of being heard to the project proponent for not obtaining Prior Environmental Clearance and for not replying to the Show Cause Notice issued under Section 5 of the Environment (Protection) Act, 1986, failing which, necessary action as deemed fit shall be initiated as per the Environment (Protection) Act, 1986.

**3. Construction of Residential Township at Pilliyarkuppam and Seliamedu villages proposed by M/s Pelican Realty Projects Private Limited.**

The Committee decided to defer action for want of clarification sought from the MOEF&CC, GOI regarding constructions for gated communities as was followed in the subsequent proposal.

**4. M/s. Serene Pelican, Pinnachikuppam.**

The Committee noted that the clarification regarding constructions for gated communities had been sought vide letter dated 03.03.2014 and reminded vide letter dated 05.08.2014 from the MOEF&CC, GOI. The Committee after due deliberation decided to defer action for want of clarification sought.



**5. M/s. Mahatma Gandhi Medical College and Research Institute, Pillaiyarkuppam.**

The Committee after due deliberation decided to direct the project proponent to apply for Environmental Clearance, since the total floor area exceeds 20,000 Sq. M. and the proposal falls under Category 'B2' of Schedule 8(a) of the EIA Notification, 2006 with the following details for further consideration:

- (i) Duly filled in Form – I and Form – IA
- (ii) Conceptual Plan

**6. M/s. Ganesh College of Engineering and Technology, Mullodai.**

The Committee noted that to ensure the total built up area of all the buildings was 13527.39 Sq. M., Puducherry Planning Authority was requested to provide Approved Building Plan and Building Completion Certificate vide letter dated 08.09.2014 and reminded vide Letter dated 23.10.2014. The Committee after due deliberation decided to call for the required details from the project proponent.

**7. M/s. Avvaiyar Social and Educational Trust, Puducherry for Establishment of College of Engineering & Technology for Women at Thiruvandar Koil Village, Mannadipet.**

The Committee noted that Environmental Clearance was issued on 02.09.2014, after placing the proposal in the 12<sup>th</sup> Meeting of SEIAA held on 20.08.2014.


**8. M/s. Sree Nivas Buildtech (India) Pvt. Ltd., Ariyankuppam.**

The Committee noted that Environmental Clearance was issued on 02.09.2014, after placing the proposal in the 12<sup>th</sup> Meeting of SEIAA held on 20.08.2014.

**9. Proposal for issue of prior Environmental Clearance for mining of red / ordinary earth in Karaikal District.**

The Committee noted the following:

- (i) A Meeting was held on 25.09.2014 in the presence of the Chairman (SEIAA), Chairman (SEAC), Member Secretary (SEIAA), Secretary (SEAC) and Secretarial Staff to evolve a guideline for issue of Prior Environmental Clearance for mining of red / ordinary earth in Karaikal District and to make inspection of the project sites.
- (ii) The Chairman (SEIAA), Chairman (SEAC), Secretary (SEAC) and Secretarial Staff inspected five project sites in the Karaikal District on 16.10.2014 pertaining to mining of ordinary earth.
- (iii) Based on the inspection, it was decided to call for additional details viz., water bodies of the Karaikal District, village / location map covering the existing ponds and the proposed ponds with distance (Km.) and the level of the water table of the different sites for further consideration of the project sites visited from the Department of Revenue and Disaster Management, Karaikal District.





**Agenda Item No. 3: 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 Prior Environmental Clearance (PEC):**

**1. Proposed construction of Boys Hostel-cum-Dining Room at Pondicherry University, Puducherry.**

The following were present:

- (i) Tmt. T. Sri Latha, Consultant.
- (ii) Thiru. A.V. Subba Rao, Consultant.
- (iii) Thiru. S. Chudalayandi, EE, PCD, CPWD, Puducherry.

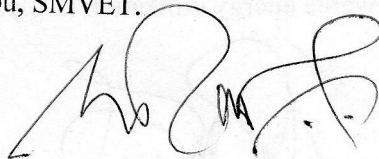
Tmt. T. Sri Latha, Consultant made the presentation. The Committee after due deliberation dated 03.11.2014 followed by site inspection dated 04.11.2014, decided to direct the project proponent to submit modified proposal after incorporating the following additional details:

- (i) The existing blocks of buildings with the built-up area of construction, year of construction.
- (ii) Existing facilities for management of storm water, waste water (STP), municipal solid wastes, bio-medical wastes and rain water harvesting for the entire campus.
- (iii) Energy conservation methods adopted so far with data on energy savings.
- (iv) List of flora and fauna of the campus.
- (v) Details regarding Sewage Treatment Plant (STP) and design, Rain Water Harvesting and the resulting water balance of the proposed project.
- (vi) Approval from Puducherry Planning Authority, State Ground Water Authority, Department of Forests and Wildlife, Fire Service, Department of Revenue and Disaster Management.
- (vii) Details regarding Green Building Materials used as per Indian Green Building Council (IGBC).
- (viii) Provisions for renewable energy utilization (ECBC norms).
- (ix) Details of the landscaping design of the proposed project.
- (x) Details of Occupational Health and Safety (OHS) measures of the proposed project.
- (xi) Details of the proposed D.G. Set and its approval.
- (xii) Details of storm water, waste water (STP), municipal solid wastes and rain water harvesting of the proposed project.
- (xiii) Treated waste water and its reuse shall meet the BIS disposal standards.
- (xiv) Revise the base line data on Ambient Air, Water, Solid Waste and Soil Strata.
- (xv) A detailed Environmental Management Plan (EMP).
- (xvi) Letter regarding the authorization of the University Administrative Representative for the presentation before SEAC from the appropriate Authority.

**2. Proposed construction of additional institutional buildings by M/s. Sri Manakula Vinayaga Educational Trust in their existing Medical Campus at Kalitheerthalkuppam Revenue Village, Mannadipet Commune, Puducherry.**

The following were present:

- (i) Thiru. R. Chandramouliswaran, Consultant.
- (ii) Thiru. N. Mahesh Babu, SMVET.



- (iii) Tmt. P. Sivapooshanam, SMVET.
- (iv) Thiru. S. Dhinakaran, SMVET.
- (v) Thiru. S. Soupramanian, SMVET.
- (vi) Thiru. M. Vaithianathan, SMVET.

Tmt. P. Sivapooshanam, SMVET made the presentation. The modified proposal submitted by the project proponent was examined by SEAC as per the EIA Notification, 2006 and its subsequent amendments. After detailed deliberation, the Committee prescribed the following conditions as per the Annexure - II enclosed and decided to recommend the proposal to SEIAA for issue of Environmental Clearance.

**3. Proposed construction of additional institutional buildings by M/s. Sri Manakula Vinayaga Educational Trust in their existing Engineering Campus at Madagadipet Revenue Village, Mannadipet Commune, Puducherry.**

The following were present:

- (i) Thiru. R. Chandramouliswaran, Consultant.
- (ii) Thiru. N. Mahesh Babu, SMVET.
- (iii) Tmt. P. Sivapooshanam, SMVET.
- (iv) Thiru. S. Dhinakaran, SMVET.
- (v) Thiru. S. Soupramanian, SMVET.
- (vi) Thiru. M. Vaithianathan, SMVET.

Tmt. P. Sivapooshanam, SMVET made the presentation. The modified proposal submitted by the project proponent was examined by SEAC as per the EIA Notification, 2006 and its subsequent amendments. After detailed deliberation, the Committee prescribed the following conditions as per the Annexure - III enclosed and decided to recommend the proposal to SEIAA for issue of Environmental Clearance.

**4. Proposed institutional building project (Phase – I) of National Institute of Technology at Poovam Village, Thiruvettakudy Revenue Village, Kottucherry Commune, Karaikal.**

The following were present:

- (i) Thiru. M. Murali Prakash, EE, NIT(Puducherry), Karaikal.
- (ii) Thiru. P. Rajendran, AE, CPWD.
- (iii) Thiru. Bharat Garg, Consultant.
- (iv) Dr. Abha Garg, Consultant.

Dr. Abha Garg, Consultant made the presentation. The Committee after due deliberation dated 03.11.2014 decided to direct the project proponent to submit modified proposal after incorporating the following additional details:

- (i) Energy conservation methods adopted so far with data on energy savings.
- (ii) Details regarding Sewage Treatment Plant (STP) and design, Rain Water Harvesting and the resulting water balance of the proposed project.
- (iii) Approval from Puducherry Planning Authority, State Ground Water Authority, Fire Service, Department of Revenue and Disaster Management.
- (iv) Details regarding Green Building Materials used as per Indian Green Building Council (IGBC).
- (v) Provisions for renewable energy utilization (ECBC norms).





- (vi) Details of the landscaping design of the proposed project.
- (vii) Details of Occupational Health and Safety (OHS) measures of the proposed project.
- (viii) Details of the proposed D.G. Set and its approval.
- (ix) Details of storm water, waste water (STP), municipal solid wastes and rain water harvesting of the proposed project.
- (x) Treated waste water and its reuse shall meet the BIS disposal standards.
- (xi) Revise the base line data on Ambient Air, Water, Solid Waste and Soil Strata.
- (xii) Specific details shall be provided for the Environmental Management Plan (EMP).
- (xiii) Coastal Regulation Zone Notification, 2011 is applicable, if the proposed project falls within CRZ area.

**5. Proposed Sulphonation Plant at PIPDIC Industrial Estate, Sederapet, Puducherry by M/s. Power Soaps Ltd., Puducherry.**

The following were present:

- (i) Thiru. Sunjai Madaan, M/s. PSL.
- (ii) Thiru. T. Rajasekaran, M/s. PSL.
- (iii) Thiru. S. Muneeswaran, Consultant.
- (iv) Thiru. S. Rajeswaran, Consultant.

Thiru. S. Rajeswaran, Consultant made the presentation. Since, the proposal had been forwarded by SEIAA for appraisal before the SEAC, the Committee made the spade work of identifying the lacunae in the proposal. With the help of the Special Invitee from the Department of Chemical Engineering, Pondicherry Engineering College, Puducherry the proposal was examined in detail dated 03.11.2014 followed by site inspection dated 04.11.2014, and the observations are enclosed in Annexure – IV. However, the Chairman (SEAC) invited the attention of the Members to the avowed declarations from the Government on Chemical and Water-intensive industries in U.T. of Puducherry.

Therefore, the Committee decided to defer the decision on the appraisal and to seek clarification from the SEIAA whether to proceed with the appraisal of the project which falls under 'RED' category in the light of the Government Policy.

**Agenda Item No. 4: General Agenda**

**1. Implementation of the EC conditions.**

The Committee noted that communication letter dated 02.09.2014 had been sent to the five project proponents who had obtained EC from SEIAA to submit hard and soft copy of the quarterly / half-yearly reports on 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year since June, 2012.

**2. Details of total built up area of all building constructed / under construction on and after 31.12.2007.**

The Committee noted the following:

- (i) Communication letter dated 10.09.2014 had been issued to 50 project proponents which includes all major Educational Institutions / Hospitals / Multi-storeyed





buildings in the U.T. of Puducherry as per the decision of the 15<sup>th</sup> Meeting of SEAC held on 24.07.2014 to submit details regarding Approved total built up area and Building Occupation Certificate by Planning Authorities on or before 30.09.2014.

- (ii) Reply has been received with adequate details (7), without adequate details (12) and reply not yet received (31) from institutions / enterprises.

The Committee after due deliberation decided the following:

- (i) Reply received with adequate details from the project proponents shall be examined as per EIA Notification, 2006.
- (ii) Respondents without furnishing adequate details shall be directed to submit additional details in the prescribed format within stipulated period for further examination.
- (iii) Respondents from whom replies were yet to be received shall be directed to submit required details within stipulated period for further examination, failing which, suitable action as deemed fit shall be initiated.

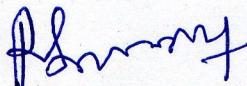
**Agenda Item No. 5: Any other item with the permission of the Chairman.**

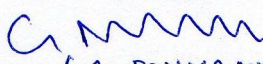
**1. M/s. M.R.F. Ltd., for the proposed 11.45 MW standby power generation.**

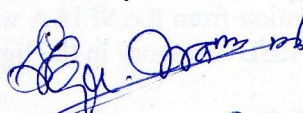
The Chairman, SEAC placed the communication received from the proponent and forwarded by MS (SEIAA) before the Committee as table agenda. The Chairman (SEAC) opined that the proposal from M/s. M.R.F. has already been appraised for 'Scoping' by the Committee and returned to SEIAA for processing to the next stage. As the proposal is yet to be received by the SEAC after complying with the TOR conditions, it is resolved to appraise the SEIAA of these facts.

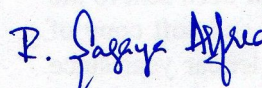
In the meantime, the Secretariat is requested to verify the authenticity of the Minutes of the 4<sup>th</sup> Meeting of SEAC of Haryana and the decision of SEIAA, Haryana on it.

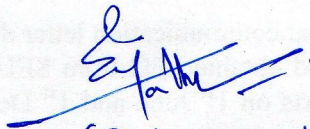
The meeting ended with vote of thanks to the chair.

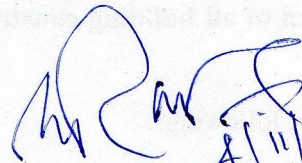
  
(R. SARAVANAN)

  
(G. POYYAMOHL)

  
(Dr. S.G.V. SUBRAMAN)

  
(R. SAGAYA ALFRED)

  
(Dr. K. OMAR HATTAB)

  
11/11/2014  
(M. RAMASAMI)



### ANNEXURE - I

Sl. No	Name and Designation of the Members Present		
	<u>Tvl.</u>		
1.	Prof. M. P. Ramanujam Puducherry.	--	Chairman
2.	Dr. G. Poyyamoli Associate Professor Department of Environment and Ecology Pondicherry University.	--	Member
3.	Dr. R. Saravanan Professor Department of Civil Engineering Pondicherry Engineering College.	--	Member
4.	Dr. K. Omar Hatab Dean, PAJANCOA&RI Karaikal.	--	Member
5.	Dr. S. Ganapathy Venkatasubramanian Professor, Centre for Environmental Studies Anna University Chennai.	--	Member
6.	Dr. R. Sagaya Alfred Senior Scientific Officer Department of Science, Technology and Environment Puducherry.	--	Secretary
7.	Dr. R. Sridar Assistant Professor Department of Chemical Engineering Pondicherry Engineering College.	--	Special Invitee

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## ANNEXURE - II

### Sri Manakular Vinayagar Medical College

#### I Condition for Pre-Construction phase

1. Breakup details on the total area of land, area for building, landscape, and specifically the area of empty land left out are to be provided
2. The green materials and green energy provisions as per Indian Green Building Council are to be designed and implemented
3. Details on the potable and non-potable use of water, enhancement of STP capacity are to be assessed and accounted for before the preconstruction phase
4. Provision for separate treatment of Laundry wastewater; and medical lab spent wash/toxic waste are to be designed and provided
5. Biomedical waste should comply to the norms with centralized facility treatment and disposal
6. Approval for clearance of additional ground water quantity, DG set provision, Fire fighting are to be obtained.
7. Storm water design should be designed and implemented according to norms
8. Landscape and green belt design should be provided with indigenous species
9. The installation of the sewage treatment plant (STP) shall be certified by an independent expert and a report in this regard shall be sent to the State Level Environment Impact Assessment Authority before the project is commissioned for operation. Discharge of treated sewage shall conform to the norms and standards prescribed by the Puducherry Pollution Control Committee. The treated sewage shall be used for gardening / irrigation within the premises.
10. For disinfection of waste-water, system using ultra violet radiation shall be adopted.
11. Specific plan for disposal of treated sewage during monsoon shall be adopted.
12. Rain water harvesting for roof and surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease.
13. The water requirement shall be met with the approval of the competent authority. The ground water wells shall be properly monitored to ensure the degree of contamination if any during utilization of water.
14. The solid waste generated shall be properly collected, segregated and composted within the premises with respect to organic waste.
15. The STP sludge shall be composted along with other biodegradable solid waste and used as manure.
16. The Plastic wastes shall be segregated and disposed through recyclers.



17. The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, etc. and the noise level shall be maintained as per MoEF/CPCB/PPCC guidelines/norms both during day and night time.

18. The project proponent shall advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing the public that

- i) The project has been accorded Environmental Clearance.
- ii) Copies of clearance letters are available with the Puducherry Pollution Control Committee.
- iii) Environmental Clearance may also be seen on the website of the State Level Environment Impact Assessment Authority.

The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same shall be forwarded to the State Level Environment Impact Assessment Authority.

## **II Condition for construction phase**

1. The green belt design along the periphery of the campus shall achieve attenuation factor conforming to the day and night noise standards prescribed for land use. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of suitable indigenous varieties with specific reference to climate and soil conditions.

2. Incremental pollution loads on the ambient air quality, noise and water quality shall be periodically monitored after commissioning of the project.

3. Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for a portion of the campus shall be provided.

4. A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the State Level Environment Impact Assessment Authority in three month's time.

5. The proponent should make separate allocation of funds for the installation and maintenance of proper Pollution Control Measures and the Environmental Measures and earmark separate staff for operation and maintenance of the control system.

## **III Condition for post construction/ operation phase**

1. It is mandatory for the Project proponent to furnish to the State Level Environment Impact Assessment Authority, Half yearly compliance report in Hard and Soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental Clearance.

2. The State Level Environment Impact Assessment Authority reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the Environmental Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

3. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the competent authorities.

#### **IV Condition for entire life of the project**

1. All the stipulations stated under Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006 would be enforced.

2. This Environmental Clearance is valid for five years from the date of issue.

3. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, Bengaluru, the Zonal Office of CPCB, Bengaluru and the PPCC. This shall also be put on the website of the Trust by the proponent.

4. The Environmental Statement for each financial year ending 31st March in Form-V as is mandated has to be submitted by the project proponent to the Puducherry Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and shall also be put on the website of the Trust along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF, Bengaluru by e-mail.

5. A copy of the clearance letter shall be sent by the proponent to the Commissioner, Mannadipet Commune Panchayat. The clearance letter shall also be put on the website of the Institution by the proponent.

6. Provision shall be made for a new pond for collecting rain water.

7. Organic gardening to be established using treated wastewater and composted solid waste.

8. Utilization of reverse osmosis reject is to be practiced for flushing in sanitary system.

9. Use of plastics are to be avoided and biodegradable materials may be used within the campus.

10. Details on reuse of treated sewage and sludge are to be furnished in the half-yearly reports of each calendar year.

11. Plant species as suggested by the Committee shall be planted in the campus.

12. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the PPCC. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the Institution in the public domain.

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**ANNEXURE - III**

**Sri Manakular Vinayagar Engineering College**

**I Condition for Pre-Construction phase**

1. Breakup details on the total area of land, area for building, landscape, and specifically the area of empty land left out are to be provided
2. The green materials and green energy provisions as per Indian Green Building Council are to be designed and implemented
3. Details on the potable and non-potable use of water, enhancement of STP capacity are to be assessed and accounted for before the preconstruction phase
4. Approval for clearance of additional ground water quantity, DG set provision, Fire fighting are to be obtained.
5. Storm water design should be designed and implemented according to norms
6. Landscape and green belt design should be provided with indigenous species
7. The installation of the sewage treatment plant (STP) shall be certified by an independent expert and a report in this regard shall be sent to the State Level Environment Impact Assessment Authority before the project is commissioned for operation. Discharge of treated sewage shall conform to the norms and standards prescribed by the Puducherry Pollution Control Committee. The treated sewage shall be used for gardening / irrigation within the premises.
8. For disinfection of waste-water, system using ultra violet radiation shall be adopted.
9. Specific plan for disposal of treated sewage during monsoon shall be adopted.
10. Rain water harvesting for roof and surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease.
11. The water requirement shall be met with the approval of the competent authority. The ground water wells shall be properly monitored to ensure the degree of contamination if any during utilization of water.
12. The solid waste generated shall be properly collected, segregated and composted within the premises with respect to organic waste.
13. The STP sludge shall be composted along with other biodegradable solid waste and used as manure.
14. The Plastic wastes shall be segregated and disposed through recyclers.
15. The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, etc. and the noise level shall be maintained as per MoEF/CPCB/PPCC guidelines/norms both during day and night time.
16. The project proponent shall advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing the public that

- i) The project has been accorded Environmental Clearance.
- ii) Copies of clearance letters are available with the Puducherry Pollution Control Committee.
- iii) Environmental Clearance may also be seen on the website of the State Level Environment Impact Assessment Authority.

The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same shall be forwarded to the State Level Environment Impact Assessment Authority.

## **II Condition for construction phase**

1. The green belt design along the periphery of the campus shall achieve attenuation factor conforming to the day and night noise standards prescribed for land use. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of suitable indigenous varieties with specific reference to climate and soil conditions.
2. Incremental pollution loads on the ambient air quality, noise and water quality shall be periodically monitored after commissioning of the project.
3. Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for a portion of the campus shall be provided.
4. A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the State Level Environment Impact Assessment Authority in three month's time.
5. The proponent should make separate allocation of funds for the installation and maintenance of proper Pollution Control Measures and the Environmental Measures and earmark separate staff for operation and maintenance of the control system.

## **III Condition for post construction/ operation phase**

1. It is mandatory for the Project proponent to furnish to the State Level Environment Impact Assessment Authority, Half yearly compliance report in Hard and Soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental Clearance.
2. The State Level Environment Impact Assessment Authority reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the Environmental Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
3. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the competent authorities.

#### **IV Condition for entire life of the project**

1. All the stipulations stated under Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006 would be enforced.
2. This Environmental Clearance is valid for five years from the date of issue.
3. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, Bengaluru, the Zonal Office of CPCB, Bengaluru and the PPCC. This shall also be put on the website of the Trust by the proponent.
4. The Environmental Statement for each financial year ending 31st March in Form-V as is mandated has to be submitted by the project proponent to the Puducherry Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and shall also be put on the website of the Trust along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF, Bengaluru by e-mail.
5. A copy of the clearance letter shall be sent by the proponent to the Commissioner, Mannadipet Commune Panchayat. The clearance letter shall also be put on the website of the Institution by the proponent.
6. Provision shall be made for a new pond for collecting rain water.
7. Organic gardening to be established using treated wastewater and composted solid waste.
8. Utilization of reverse osmosis reject is to be practiced for flushing in sanitary system.
9. Use of plastics are to be avoided and biodegradable materials may be used within the campus.
10. Details on reuse of treated sewage and sludge are to be furnished in the half-yearly reports of each calendar year.
11. Plant species as suggested by the Committee shall be planted in the campus.
12. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the PPCC. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the Institution in the public domain.

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## ANNEXURE- IV

### Sulphonation Plant

1. The provision of the Sulphonation plant comes under RED category & attracts Eco-sensitive Zone under "Protected Area Network" earmarked for Puducherry
  2. The provision for Risk analysis and the remedial measures therein are to be assessed to ensure safety of the plant
  3. The quantification of SO<sub>x</sub> and Volatile organic carbon (VOC) & its control measures are to be assessed and designed to comply with National ambient Air quality standards.
  4. The design and safety provision for the corrosive nature of the SO<sub>x</sub> and Volatile organic carbon (VOC) emissions are to be provided to conform to the norms of Chemical & explosive industries.
  5. The Respirable particulate matter (PM 10 & PM 2.5) are to be assessed with base line data of similar such plant and the assessment on the Resulting back ground concentrations are to be detailed out for the proposed plant with its specific locations
  6. Ambient air quality sampling: the 24 hourly and 8 hourly values should be meet 98 % of the time in a year. 2 % of the time it may exceed but not on two consecutive days.
  7. The liquid and solid sludge are to be treated and the design norms should adhere to MoEF Standards
  8. Details on the preliminary survey has to be assessed in respect of location of the plant
  9. The details on the process plant, fire safety and the likely impact on the flammable units are to be calculated & assessed and detailed out. The provision for remedial measures are to be enumerated to ensure safety levels at all points of operation
  10. The treatment system for the plant should be appropriate with the current Hazardous waste treatment provisions and guidelines. New design is necessary to adhere the current norms in identifying and disposing the hazardous waste resulting out of day to day operations
  11. Mention on hazardous nature of the chemical to be stored. The inventory on the chemical storage and its replacement. The safety measures for the chemical storage and its likely impact on the soil and ground water
  12. Design provisions under Occupational Health and Safety (OHS) for the process operation should adhere to MoEF norms
- 13. Sludge:**
- i. The treatment and disposal methods for Oil, grease and hazardous organic solvents resulting out of operation. Is any provision proposed? If not mention that clearly

ii. The operation of the thickener and centrifuge is more likely to emit organic vapours and gases? Is any provision made?

iii. When the thickened sludge is disposed on the land, reclamation of the land is necessary.

14. How the intensity of the operational phase vibration is reduced? **No mention on that. Indicate the maximum (appx.) noise level in dB during operation? What type of acoustic treatment? How the secondary noise is reduced? Occupational safety and health measures**

15. Environmental Risk analyses need to be carried out and to ensure that the **Zone of damage circle, in likelihood of accidents should fall within the industrial boundary. Various explosion scenario need to worked out. The client should get prior permission from Centre for explosive Division, Nagpur for clearing the proposal. The above details have to mentioned in the report**

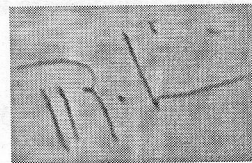
16. The wind zone class needs to be mentioned. Coastal regulation zone class needs to be mentioned

17. National disaster management measures to be mentioned

18. The mitigative measures for cyclone prevention as part of disaster management need to be mentioned



Dr.R. Saravanane,  
Professor  
Department of Civil Engineering  
Pondicherry Engineering College



Dr. R. Sridar  
Assistant Professor  
Department of Chemical Engineering  
Pondicherry Engineering College