



**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Issued by the State Environment Impact Assessment**  
**Authority(SEIAA), KERALA)**

To,

The IMA - Kerala State President  
 INDIAN MEDICAL ASSOCIATION KERALA STATE BRANCH  
 TRIVANDRUM  
 IMAGE- IMA  
 Administrative Office  
 Indian Medical Association Headquarters  
 Anayara P O -695029

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/KL/INFRA2/434354/2023 dated 24 Jun 2023. The particulars of the environmental clearance granted to the project are as below.

- |                                            |                                                                  |
|--------------------------------------------|------------------------------------------------------------------|
| 1. EC Identification No.                   | <b>EC25B057KL115984</b>                                          |
| 2. File No.                                | 2308/EC1/2023/SEIAA                                              |
| 3. Project Type                            | New                                                              |
| 4. Category                                | B                                                                |
| 5. Project/Activity including Schedule No. | 7(d)(a)Common Bio-Medical Waste Treatment Facility               |
| 6. Name of Project                         | Common Biomedical Waste Treatment Facility by IMAGE-IMA at Adoor |
| 7. Name of Company/Organization            | INDIAN MEDICAL ASSOCIATION<br>KERALA STATE BRANCH<br>TRIVANDRUM  |
| 8. Location of Project                     | KERALA                                                           |
| 9. TOR Date                                | N/A                                                              |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 15/03/2025

(e-signed)  
 Mir Mohammed Ali IAS  
 Member Secretary  
 SEIAA - (KERALA)

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

*This is a computer generated cover page.*





**PROCEEDINGS OF THE  
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT  
AUTHORITY – KERALA, THIRUVANANTHAPURAM**

*(Present : Dr.H.Nagesh Prabhu IFS (Retd), Chairman,  
Shri.K.Krishna Panicker, Member, Sri. Mir Mohammed Ali IAS, Member Secretary)*

**Sub: Environmental Clearance for the Common Biomedical Waste Treatment Facility  
by the Secretary, IMAGE IMA – Granted – Orders issued.**

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**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA**

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**Proposal No. SIA/KL/INFRA2/434354/2023**

**File No. 2308/EC1/2023/SEIAA**

Ref: 1. Application for EC received from the Secretary, IMAGE IMA on 24.06.2023  
2. Minutes of the 179<sup>th</sup> SEAC meeting held on 11<sup>th</sup>, 12<sup>th</sup> & 13<sup>th</sup> February 2025  
3. Minutes of the 154<sup>th</sup> SEIAA meeting held on 25<sup>th</sup> February, 2025

**ENVIRONMENTAL CLEARANCE NO.30/2025**

The Secretary, IMA-IMAGE, submitted an application vide paper read as 1<sup>st</sup> above for Environmental Clearance for the Common Biomedical Waste Treatment Facility by IMAGE-IMA at Block No 26, Re. Sy No. 340/1/19, 340/1/20, in KINFRA Park, Enadimangalam Village, Adoor Taluk, Pathanamthitta.

**(i) Project details**

Sl. No.	Description	Details
1	Name of the project	Common Biomedical Waste Treatment Facility by IMAGE-IMA
2	Major Project/Activity Category	7(da) Common Biomedical Waste Treatment Facility
3	Name & Address of the project Proponent	Secretary, IMAGE IMA, Anayara P.O., Thiruvananthapuram - 695029

4	Project Location	
	a) Block No.	26
	b) Re- Sy. Nos.	340/1/19, 340/1/20
	c) Village	Enadimangalam
	d) Taluk	Adoor
	e) District	Pathanamthitta
5	Proposed Plant Capacity	20 TPD
6	Area	1.214 Ha (or) 3 acres
7	Project Cost (in Crore)	Rs. 24.84 Crore
8	Date of Field Inspection	29.10.2023

**(ii) EMP Details**

No.	Particulars	Capital (in Lakh)	Recurring (Lakh/Annum)
1	Environmental Monitoring	-	14.6
2	Water Pollution Control (Drainage channels Extraction wells etc)	15	2
3	STP - 15 KLD	33.15	3
4	ETP - 60 KLD (with Ultra Filtration)	109	6
5	Sub surface dykes	32.85	2
6	RWH system - 7400m <sup>3</sup>	15	2
7	Air Pollution Control (CEMS)	25	7
8	Solid waste management (Biobin)	1	0.1
9	Greenbelt development (33% = 1000 plants)	6	2
10	Occupational Health & Safety	20	4
11	Fire & Safety	10	1
12	Road & Safety	8	-
13	Risk, Disaster & Emergency management	5	-
14	Pre and post project monitoring	-	3
15	Fulfilling the regularity requirement	5	-
16	Solar Panel installation (10 KVA)	10	2
17	Maintenance of equipment & Vehicles	-	8
	<b>TOTAL</b>	<b>295</b>	<b>56.7</b>

**(iii) CER Details**

<b>Name of Activities</b>	<b>Amount (in Lakhs)</b>
Facilities worth 47 lakh for the project of M/s Pampavalley Farmers Producers Company limited i.e, training center for the purpose of educating good agricultural practices to member farmers, production of good quality seeds and seedlings, production of organic manure & collection of its farmers products and its value addition.	47
Community Water Tank for Drinking water supply for the Ward 4 of Elanthur grama-panchayath.	02
<b>TOTAL</b>	<b>49</b>

2. After due appraisal, in the 179<sup>th</sup> meeting, the SEAC recommended EC for 10 years subject to certain Specific Conditions in addition to the General Conditions.

3. In the 154<sup>th</sup> SEIAA meeting, the Authority noticed that the SEAC had appraised the project based on Form 1, Pre-Feasibility Report, EIA Report and Public Hearing documents and the additional details/documents obtained from the Project Proponent during appraisal. As per the application, the total plot area is 1.214 Ha. The total built-up area is 5204.84 m<sup>2</sup> with a total treatment capacity of 20,000 kg/day. The total project cost is Rs. 23.40 crore. The Kallada River is at 3.9 km south to the project area. A few houses (2 - 5) are noticed at a distance of 300 m. The ToR for the project was approved vide letter No. SIA/KL/INFRA2/404217/2022 dated 24.01.2023. The Public Hearing was conducted on 07.09.2024 and the Project Proponent vide letter dated 30.10.2024 submitted the response to the concerns raised in the Public Consultation.

The Authority noticed that the wastes generated from the health care facility will be disposed in accordance with the provisions of the Biomedical Waste Management Rules 2016. The methodology adopted in handling biomedical waste is based on CPCB Guidelines. The possibility of contamination of the biomedical waste with radioactive waste is very meager. However, periodic screening will be done at the time of collection at the plant using detectors to avoid such contamination. No waste is directly exposed to the atmosphere at any stage of handling. Incinerable wastes will be treated in rotary kiln type double chamber incinerator and the chance of odour nuisance or other related issues will be minimum. The proposed double

chamber incinerator has a capacity of 500 kg/hour and can operate 20 hours a day. The water management will be done scrupulously as suggested in the detailed study carried out and Zero Liquid Discharge will be ensured for the surface and sub-surface flow.

The SEAC observed that the environmental issues raised during the public hearing and those issues raised in the complaints, are environmentally manageable with the implementation of the recommendations in the expert study, appropriate application and adoption of the proposed technologies and strict compliance to the guidelines of the enforcement agencies. After due appraisal, the SEAC in its 179<sup>th</sup> meeting recommended EC for 10 years subject to certain Specific Conditions in addition to the General Conditions.

**In the above circumstances, the Authority decided to issue Environmental Clearance for the project life of 10 (Ten) years, subject to the following Specific Conditions in addition to the General Conditions.**

- 1. The validity of EC is subject to the condition that the FAR of the project shall not exceed the permissible limit.*
- 2. KSPCB and Project Proponent to ensure that the guidelines for CBWTF issued by CPCB are followed scrupulously with due care for ensuring proper treatment and disposal of biomedical waste.*
- 3. A Local Monitoring Committee (LMC), under the chairmanship of the President of the Grama Panchayat and including the elected member of the GP from the locality, representative of the industrial park, official of the Pollution Control Board and the Project Proponent should be formed to monitor the activities of the proposed plant on a regular basis to ensure that all the safeguards are intact.*
- 4. Green belt shall be maintained minimum at a rate of 1 tree per every 80 sq. m as stated in the Appendix XIV of EIA Notification 2006 (SO 3099 (E) dated 09.12.2016).*
- 5. The measures proposed to ensure the prevention of any accidental spill of the waste/ leachate should be monitored on a daily basis and safeguards ensured.*
- 6. Appropriate number of wells within 1 km radius of the project site towards downstream side of the site should be identified through the LMC and weekly monitoring of water quality should be carried out for six months, initially, and monthly monitoring should be carried out subsequently by a NABL accredited laboratory. The results should be placed in the LMC and should be made available at the gate of the plant for public to refer.*

7. *Monitoring well should be maintained as recommended in the hydrogeological study and the groundwater quality should be monitored periodically by engaging NABL accredited Lab.*
8. *Surface outflow and groundwater outflow from the project area should be monitored periodically by engaging NABL accredited Lab.*
9. *All the assurances and the mitigation measures committed by the Project Proponent as per the environmental management plan and suggested in response to the complaints raised should be complied with scrupulously.*
10. *All the measures recommended in the hydrological and hydrogeological study should be complied with and reported to the LMC*
11. *Rotary type of incinerator should be installed as it has better thermal efficiency, air mixing in the burning chamber and operational efficiency with improved emission quality.*
12. *The onsite storage facility for storage of ETP sludge, ash, and mercury waste should have adequate storage capacity and the Proponent should ensure weekly removal and disposal of this waste in the treatment, storage and disposal facility (TSDF) for Hazardous Waste, currently located at Amabalamedu, Ernakulam.*
13. *Project Proponent should install Ultra Filtration (UF)/RO facility in addition to Pressure Sand Filter and Pressure (PSF) and Pressure Carbon Filter (PCF) for enabling and ensuring recycling/reusing of tertiary treated wastewater to achieve zero discharge.*
14. *The recommendations of the engineering feasibility study and hydrological and hydrogeological study should be implemented strictly*
15. *The surface water drainage system comprising of drains, channels, catch drains, culverts etc. should be implemented prior to the commissioning of the plant and it should be maintained properly and periodically.*
16. *Harness maximum solar energy, to meet partial power requirement and providing post type, solar yard lighting system, within and adjoining areas.*
17. *Rain water falling on active tipping areas should be collected separately and it should be collected through the leachate collection drain and leachate collection sumps and finally lead to the leachate treatment for treatment and disposal/ reuse.*
18. *Green belt should be developed all around the compound of the proposed plant in consultation with KFRI using indigenous species of trees, herbs and climbers prior to the commissioning of the plant.*

19. *Compensatory afforestation plan should be implemented using indigenous species of plants, herbs and climbers prior to the commissioning of the plant and the progress of implementation of the plan and its maintenance should be submitted in the half-yearly compliance report along with geo-tagged photographs.*
20. *Disinfection and cleaning arrangements for the vehicles should be maintained at the entry and exit gates*
21. *The Corporate Environment Responsibility Plan should be implemented during the first two years of the project and it should be operated and maintained during the rest of the period of EC.*
22. *The CER expenditure proposed and agreed by the Project Proponent should be expended through a separate bank account and the account statement and the beneficiary list should be uploaded along with Half Yearly Compliance Report.*
23. *There should be regular vigil on the safeguard measures installed for possible accidental spillage of contaminants to the water body in the downstream area and the findings should be recorded in a log book which should be placed in the LMC on a regular basis.*
24. *Adequate sources for water to meet the requirement during construction and operational phase is to be ensured and details should be given in HYCR.*
25. *The excavation of earth for construction should be limited to minimum and the activity should not affect the water sources of the nearby houses.*
26. *Climate responsive design as per Green Building Guidelines in practice should be adopted.*
27. *The green building criteria notified in the GO (Ms) No. 39/2022/LSGD dated 25.2.2022 should be adopted.*
28. *Appropriate greening measures should be adopted on the ground as well as over built structure such as roofs, basements, podiums etc.to reduce the urban heat effect of civil structures.*
29. *Exposed roof area and covered parking should be covered with material having high solar reflective index.*
30. *Construction work should be carried out during day time only.*
31. *All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed.*

32. All vehicles carrying construction / waste materials should be fully covered and protected.
33. All construction / waste materials of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
34. Occupational health safety measures for the workers should be adopted during the construction & operation phases.
35. All vehicles during the construction / operation phase should carry PUC certificate.
36. D.G. set should be provided with adequate stack height and regular maintenance should be carried out before and after the construction phase and would be provided with an acoustic enclosure.
37. Usage of energy saving 5 star rating equipment such as BLDC fans and LED lamps should be promoted as part of energy conservation. **At least 20% of the energy requirement shall be met from solar power.**
38. Adequate measures should be adopted to harvest the rainwater.
39. **Adequate built-in composting facility should be set up for the treatment of biodegradable waste as the capacity of the local LSGD is inadequate.**
40. Authority makes it clear that as per clause 8 (vi) of EIA notification 2006, deliberate concealment and/or submission of false or misleading information or data which is material to screening or scoping or appraisal or decision on the application shall make the application liable for rejection and cancellation of prior EC granted on that basis.
41. As per OM no F.No.22-65/2017-IA.III dated 30<sup>th</sup> September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.
42. The Project Proponent shall obtain all necessary clearances/ licenses/ permissions from all the statutory authorities issuing clearances/ licenses/ permission for the construction projects of this nature.



43. *The Project Proponent is directed to install a CCTV camera and take all other essential measures to ensure that project site is not used by antisocial elements for nefarious antisocial activities which are detrimental for peaceful coexistence in the project region. In case if such complaints are received, the EC given is likely to be cancelled after a police verification.*
44. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

**4. In this circumstance, prior Environmental Clearance is hereby accorded to the Secretary, IMAGE-IMA, for the Common Biomedical Waste Treatment Facility at Block No 26, Re. Sy No. 340/1/19, 340/1/20, in KINFRA Park, Enadimangalam Village, Adoor Taluk, Pathanamthitta, for the project life of 10 (Ten) years under Category 7(da) Common Biomedical Waste Treatment Facility subject to specific conditions mentioned at para (3) above, the General Conditions for the Biomedical Waste Treatment Facility and the Green Conditions mentioned below.**

**Green Conditions.**

1. *Adequate rain water harvesting facilities shall be arranged for.*
2. *Technology and capacity of the STP to be indicated with discharge point (if any) of the treated effluent.*
3. *Effluent water not conforming to specifications shall not be let out to water bodies.*
4. *Maximum reuse of grey water for toilet flushing and gardening and construction work shall be ensured.*
5. *Dual plumbing for flushing shall be done.*
6. *Provisions for disposal of e-wastes, solid wastes, non-biodegradables and separate parking facility for the buildings shall be provided.*
7. *Generation of solar energy to be mandatory for own use and/or to be provided to the grid.*
8. *There shall be no compromise on safety conditions and facilities to be provided by the project proponent, which shall be ensured for occupation, regularisation or consent to operate.*

5. The Environmental Clearance will also be subject to full and effective implementation of all the undertakings given in the Application Form, all the environmental impact mitigation and management measures undertaken by the Project Proponent in the documents submitted to SEIAA, and the mitigation measures and waste management proposal as assured in the Form - 1 and Form-1A, Environment Management Plan and Conceptual Plan as submitted. The assurances and clarifications given by the Project Proponent in the application and related documents will be deemed to be part of this Proceedings as conditions as undertaken by the proponent, as if incorporated herein.

6. Validity of the Environmental Clearance will be for **10 years** from the date of issuance of E.C, subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C in case of violation or non-compliance of any of the conditions stipulated herein or genuine complaints from residents within the scrutiny area of the project.

7. Compliance with the conditions herein will be monitored by the State Level Environment Impact Assessment Authority or its agencies and also by the Regional Office of the Ministry of Environment and Forests, Govt. of India, Bangalore. Necessary assistance for entry and inspection by the concerned officials and staff should be provided by the project proponents. Instances of violation if any shall be reported to the **District Collector, Pathanamthitta** to take legal action under the Environment (Protection) Act 1986.

8. The Half Yearly Compliance Report (HYCRs) with name of the project, EC No. and date, the period of submission with its contents, compliance report and environmental monitoring data & covering letter have to be uploaded in the Parivesh Portal as per O.M. F.No.IA3-22/1/2022-IA-III(E)-17264 dated 14.06.2022 and the website of the Project Proponent. Hardcopy of HYCRs shall not be acceptable.

9. The given address for correspondence with the authorised signatory of the project is The Secretary, IMAGE IMA, Anayara P.O., Thiruvananthapuram – 695029.

### **General Conditions for Bio-Medical Waste Treatment Plants**

- 1) The waste shall be treated and disposed of in accordance with Schedule I, and in compliance with the standards prescribed in Schedule V of Bio Medical Waste Management and handling Rules.
- 2) Bio- Medical waste shall not be mixed with other wastes and the waste shall be segregated into labeled containers/bags at the point of generation prior to its storage, transportation, treatment and disposal.
- 3) Plastic wastes should be treated and disposed separately.
- 4) Untreated biomedical waste shall be transported only in such vehicle as may be authorized for the purpose by the competent authority as specified by the government.
- 5) The base of the waste cabin shall be leak proof to avoid pilferage of liquid during transportation and the inner surface of the waste cabin shall be made of smooth surface to minimize water retention. The waste cabin shall be so designed that it is easy to wash and disinfect.
- 6) Every time a vehicle is unloaded, the vehicle and empty waste containers shall be washed properly and disinfect.
- 7) No untreated bio-medical waste shall be kept stored beyond a period of 48 hours.
- 8) Adopt suitable design criteria for incinerators, Incinerator room and waste storage room for better performance.
- 9) The proponent should get authorizations and other statutory clearances from the Government Departments/agencies for the functioning as per rules.
- 10) The proponent shall maintain records related to the generation, collection, reception, storage, transportation, treatment, disposal and/or any form of handling of bio-medical waste in accordance with rules.
- 11) The proponent should take adequate measures to prevent the contamination of polluting gas/effluents/ashes to air, water and land.
- 12) The equipment's used for the treatment should be cleaned everyday and the waste water should be treated before further usage.
- 13) No effluent should be discharged out of the premises.
- 14) Technology and capacity of the STP to be indicated with discharge point (if any) of the treated effluent.

- 15) Generation of solar energy to be mandatory for own use and/or to be provided to the grid.
- 16) Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified elsewhere.
- 17) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- 18) High walls, fencing and guarded gates shall be provided at the facility to prevent unauthorized access to the site by humans and livestock.
- 19) Greenbelt should be provided by using common local tree species around the project area.
- 20) Waste such as incineration ash generated in the process of incinerations shall be stored in a separate area under the shed so as to avoid entry of rain water during the monsoon.
- 21) Provision for parking shall be made within the confines of the site for parking of required number of vehicles, loading and unloading of the vehicles meant for transporting waste to and from the facility.
- 22) An identification board of durable material and finish shall be displayed at the entrance to the facility. This shall clearly display the name of the facility, the name, address and telephone number of the operator and the prescribed authority, the hours of operation and the telephone numbers of the personnel to be contacted in the event of an emergency.
- 23) Fire safety equipment such as sand buckets and fire extinguishers should be provided at all the salient points as per Fire and Safety Regulations.
- 24) Measures shall be implemented to control pests and insects at the site.
- 25) Necessary provision shall be made to prevent and control noise generated, if any, due to the activities at the site.
- 26) The conditions specified in the Companies Act, 2013 should be observed for Corporate Social Responsibility.
- 27) The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment 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.

- 28) The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of 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.
- 29) The Project Proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt of Kerala and also be seen on the website of the Authority at [www.seiaakerala.org](http://www.seiaakerala.org). The advertisement should be made within 10 days from the date of the receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as conformation.
- 30) A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayath/District Panchayath/Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.
- 31) The proponent shall submit half yearly 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**) and 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 respective Regional Office of MoEF, Govt. of India and also to the Directorate of Environment and Climate Change, Govt. of Kerala.
- 32) The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40.
- 33) The proponent should provide notarized affidavit (*indicating the number and date of Environmental Clearance proceedings*) that all the conditions stipulated in the EC shall be scrupulously followed.

To,

The Secretary, IMAGE IMA,  
Anayara P.O.,  
Thiruvananthapuram – 695029

Copy to,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block, Koramangala, Bangalore-560034 (through e-mail: [rosz.bng-mefcc@gov.in](mailto:rosz.bng-mefcc@gov.in)).
2. The Secretary to Government, Environment Department, Government of Kerala
3. The Director, Directorate of Environment & Climate Change, 4<sup>th</sup> Floor KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram, Kerala 695 001.
4. The Member Secretary, Kerala State Pollution Control Board, Trivandrum
5. The District Collector, Pathanamthitta
6. The Environmental Engineer, KSPCB, Pathanamthitta
7. The District Town Planner, Pathanamthitta
8. The Tahasildar, Adoor Taluk, Pathanamthitta
9. The Secretary, Enadimangalam Panchayath, Pathanamthitta
10. The Chairman, SEIAA
11. Website
12. O/C/S/F