Background of the project

M/s. Kovai Medical Centre and Hospital Limited (KMCH) is in operation since 24th June 1990 at Kalapatti village, Coimbatore North Taluk, Coimbatore District. The unit has obtained Consent from TNPCB vide consent order dated 14.06.1990 and renewed till 31.03.2012.

KMCH has obtained Environmental Clearance from SEIAA, Tamil Nadu vide letter No. SEIAA/TN/EC/8(a)/080/F-205/2010 dated 30.03.2010 for the expansion of hospital with total built-up area of 5,20,002 Sq.ft. (Existing – 2,48,070 Sq.ft. + Proposed – 2,71,932 Sq.ft.), No of Beds - 500 Nos. Further they have obtained, CTE Expansion from TNPCB vide its order No. 2336 & 4405 dated 14.10.2011 and CTO from TNPCB vide its order no. 18542 (A) & 22506 (W) dated 13.01.2012.

Then, KMCH has obtained another Environmental Clearance from SEIAA, Tamil Nadu vide letter No. SEIAA/TN/F.6369/EC/8(a)/516/2016 dated 22.05.2017 for its expansion project for the total built-up area of 1,22,886 Sq.m, 1650 No of Beds / Inpatients and 2500 Nos/day of Outpatients.

KMCH has obtained CTE Expansion vide order no. 170629182986 & 170619182986 26.12.2017 and CTO Expansion Phase I vide order No. 1807212584902 (A) & 1807112584902 (W) dated 17.09.2018 which was valid up to 31.03.2020. Subsequently, KMCH has also obtained CTO Expansion Phase II vide order no. 2007233274665 (A) and 2007133274665 (W) dated: 14.10.2020 which is valid up to 31.03.2025.

KMCH is also operating a medical college adjacent to the Hospital and as per the amendment in EIA Notification dated 22.12.2014, the educational institutions are exempted from obtaining EC under EIA Notification and thus the medical college has obtained Consent from Tamil Nadu Pollution Control Board for its existing Medical College (KMCH Institute of Health Sciences & Research) vide Consent Order No. 2104237308865 (Air) & 2104137308865 (Water) dated 18.03.2021 valid upto 31.03.2025 for the total built-up area of 69,056.28 Sq.m.

Now, KMCH has proposed to construct additional buildings in the said campus with built-up area of about 94,639.04 Sq.m. to increase the total built-up area from 1,91,466.76 Sq.m. to 2,86,105.8 Sq.m and increase the Bed strength from 1650 Nos to 2250 Nos and Outpatients strength from 2500 Nos/day to 6000 Nos/day. They are in the process of obtaining Environment Clearance for the construction of additional buildings. Hence, they are in need of certified compliance report from the Integrated Regional Office of MoEF&CC, Chennai.
The status of compliance on the stipulated conditions contained in the EC cited above is given below.

Project: Proposed expansion of hospital by construction of additional buildings at S.F No. 751/1, 3A, 752/2B, 4, 768/2A3, 2B2, 769/4, 5, 6, 8, 9, 10, 11, 770/1 to 11, 12pt, 13, 16, 17, 18 & 771/6, Kalapatti village, Coimbatore North Taluk, Coimbatore District by M/s. Kovai Medical Centre & Hospital Limited (KMCH).

EC Letter No. - SEIAA/TN/F.6369/EC/8(a)/516/2016 dated 22.05.2017

Part A – Conditions for Pre-Construction Phases

S. No.	Compliance Conditions	Compliance Status
i)	The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance. The press release also mentions that a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the regional office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN.	We have published our Environmental Clearance details in "Deccan Chronicle (English) & "Dinamani" (Tamil) on 30.05.2017. Also, we have already submitted the advertisement copies to the Ministry of Environment and Forests located at Chennai and SEIAA- TN and copy of the same is enclosed in **Annexure – II**.
ii)	In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.	There is no change in the scope of the project.
iii)	A copy of the clearance letter shall be sent by the proponent to the Local Body. The clearance letter shall also be put on the website of the proponent.	The clearance letter has been published in our hospital website, www.kmchhospitals.com.
iv)	"Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and copy shall be submitted to the SEIAA Tamil Nadu.	We have obtained Consent for Establishment from TNPCB vide Order No. 170629182986 (A) & 170619182986 (W) dated 26.12.2017 and copy of the same is enclosed in **Annexure – III**.

S. No.	Compliance Conditions	Compliance Status
v)	Any appeal against this environment clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	No appeal was made within the stipulated time of 30 days.
vi)	The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of fire-fighting equipment, etc. as per National Building Code including protection measures from lighting etc. before commencement of the work.	The structural stability certificate has been obtained from approved structural engineer. Fire license has also been obtained from Tamil Nadu Fire & Rescue Service Department and the same has been renewed as on date. The copy of the same is enclosed in **Annexure – IV**.
vii)	All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction phase.	All sanitary and hygienic measures were provided and maintained properly throughout the construction phase for workers.
viii)	Design of building should be in conformity with the Seismic Zone Classifications.	The project site falls under seismic Zone-II area and the foundation of various structures / buildings was designed to suit the geo- technical conditions of the area.
ix)	The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.	We have constructed all the buildings as per the approval obtained from the local authorities.
x)	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 Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, and other	All statutory clearances such as approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department and planning permit from DTCP have been obtained. i) Fire License No. 459/2024 dated 26.07.2024.

S. No.	Compliance Conditions	Compliance Status
	authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.	ii) DTCP Approval No. 24333/2010/CP dated 23.12.2010 iii) PESO License No. P/SC/TN/15/2854 (P468117) dated 10.03.2021 iv) Airport NOC No. AAI/SR/NOC/RHQ dated 29.03.2010 The copies of the same are enclosed in **Annexure – IV, Annexure – V, Annexure – VI & Annexure – VII**.
xi)	The Project proponent shall have to furnish the probable date of commissioning of the project supported with necessary bar charts to SEIAA-TN.	Project bar chart schedule has been submitted with EC application. We have commissioned part of the buildings during September 2018 and remaining during September 2020.
xii)	No construction activity of any kind shall be taken up in the OSR area.	We have not carried out any construction in the OSR area.
xiii)	Consent of the local body concerned should be obtained for using the treated sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.	We are utilizing the treated sewage for gardening of OSR area after obtaining concurrence from local body.
xiv)	The structural design of the proposed building must be vetted by premier academic institutions like Anna University, IIT Madras, etc and the fact shall be informed to SEIAA.	The structural design has been vetted by approved structural engineer as per building norms and copy of the same is enclosed in **Annexure – VIII**.
xv)	The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification 2011.	CRZ Notification 2011 is not applicable to the project as it is located far away from the seashore.
xvi)	The daily fresh water requirement of 852 KLD shall be met from TWAD for entire period of operation after obtaining	The freshwater requirement of 852 KLD is met through TWAD Board after making

S. No.	Compliance Conditions	Compliance Status
	permission from the competent authority before commissioning the project (or) before obtaining completion certificate from the competent authority, whichever is earlier as committed.	required agreement with them and copy of the same is enclosed in **Annexure – IX**.

Part B – Conditions for Construction Phase

S. No.	Compliance Conditions	Compliance Status
i)	The Project activities shall not cause any damage to ecosystem such as to water bodies/lakes and wetlands surrounding to the project site.	The project activity is not causing any damage to the ecosystem or nearby water bodies.
ii)	The construction authority should ensure that the nearby water bodies and the lakes around are not defiled in any way through their activities due to the proposed and thereafter.	We are ensuring that the project activities are not causing any defiling to the nearby water bodies.
iii)	All the labourers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.	Health checkup for the construction workers had been carried out before and during their employment regularly.
iv)	The entire water requirement during construction phase shall be met from ground water source/out sourcing from the source with approval of the PWD Department of water resources.	The required water for the construction phase had been met through private water tankers.
v)	Provision shall be made for the housing labour within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	We had provided all necessary infrastructures and facilities to the employees engaged for construction and temporary structures had been removed after the completion of the project.

S. No.	Compliance Conditions	Compliance Status
vi)	A First Aid Room shall be provided in the project site during the entire construction phase of the project.	All required first Aid facilities had been provided at the project site during construction phase of the project. Moreover, the project is itself a hospital project, so medical treatment was available for immediate actions.
vii)	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of waste water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.	Adequate facilities like drinking water, sanitation and solid waste management had been provided at the project site. The MSW generated has been disposed through Local Body in the identified dumpsite only.
viii)	The solid waste in the form of excavated earth excluding the top soil generated from the project activity shall be scientifically utilized for construction of approach roads and peripheral roads, as reported.	We have utilized the entire excavated soil from the construction site for filling up elevation work, road leveling, etc.
ix)	All the top soil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	The fertile top soil excavated during the construction had been utilized for landscape development within the project site.
x)	The disposal of construction waste and debris shall be followed as per Construction and Demolition Waste Management Rules, 2016.	We have disposed the construction debris as per Construction and Demolition Waste Management Rules, 2016 into the site designated by municipal authorities.
xi)	Disposal of other construction debris during construction phase should not create any effect on the neighbouring communities and be disposed off only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people.	We have ensured that the disposal of construction debris has not created any impact on the neighbouring communities and it has been disposed only in approved sites, with the approval of Competent Authority.

S. No.	Compliance Conditions	Compliance Status
xii)	Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent land/lake/stream etc.	As such no hazardous / bituminous material had been used in construction activity. All possible precaution had been taken to prevent contamination of groundwater.
xiii)	Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and Noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and Rules framed thereon.	DG sets in the construction phase had been used as per Environment (Protection) Rules for Air and Noise emission standard. Low Sulphur diesel was used as fuel in D.G. sets. The DG sets were operated during power failure & in day time only for construction activities.
xiv)	The diesel required for operating stand by DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.	License had been obtained for storage of diesel from Chief controller of Explosives, Chennai.
xv)	Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.	The following measures had been followed for the transportation of construction materials: 1. BT roads were provided to access the Campus. No overloading of transport vehicles with materials. 2. Vehicles with valid 'Pollution under Control' Certificates were only permitted. 3. Also, the transport vehicles were permitted only during non- peak hours.
xvi)	Ambient air and noise levels should conform to residential standards prescribed by the TNPCB, both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phase.	Available best construction practices had been followed to take care of the Environment. Regular AAQ & Noise monitoring was carried out by the NABL accredited / TNPCB laboratory and the air and noise quality levels were maintained within the limits and submitted the reports.

S. No.	Compliance Conditions	Compliance Status
	The pollution abatement measures shall be strictly implemented.	
xvii)	Fly-Ash bricks should be used as building material in the construction as per the provision of Fly ash Notification of September, 2009 and amended as on 25th January, 2015.	Fly ash bricks were used in the construction and fly ash was also used in batching plant as a construction material as per the norms.
xviii)	Ready-mix concrete shall alone be used building construction necessary cube-tests should be conducted to ascertain their quality.	We have used high quality ready-mix concrete (M-20 grade) for building construction and cube-tests had been conducted to ascertain the quality.
xix)	Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water design manual.	We have provided the storm water management facilities in and around the site as per the storm water design manual.
xx)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.	We have used the pre-mixed concrete, curing agents and other best practices including precast concrete blocks to reduce the water demand.
xxi)	The proponent shall provide flow meter with recording arrangement at the following points. a) Inlet point of water uptake to monitor the daily water consumption. b) Inlet and outlet point of STP and ETP. c) At the point of disposal of treated waste water to underground Sewer line.	We have provided the flow meters with recording arrangement at the required places like water intake point, STP inlet & outlet, ETP inlet & outlet.
xxii)	Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor-based control.	Low flow type fixtures have been provided for showers, toilet flushing and drinking water to reduce the water consumption.
xxiii)	Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high	High quality glass with special reflecting coatings has been used in the buildings.

S. No.	Compliance Conditions	Compliance Status
	quality double glass with special reflecting windows.	
xxiv)	Roof should meet prescriptive requirement as per Energy Conservation Building Code which is mandatory for all air-conditioned spaces by use of appropriate thermal insulation material to fulfil the requirement.	All the roof area has been designed as per ECBC norms and are insulated to minimize heat gain.
xxv)	Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air-conditioned spaces by use of appropriate thermal insulation material to fulfil the requirement.	This is a hospital expansion project which has been developed as per the Energy Conservation Building Code as far as applicable and technically feasible.
xxvi)	Adequate fire protection equipment and rescue arrangements should be made as per the prescribed standards.	We have provided adequate fire protection equipment and rescue arrangements as per standards.
xxvii)	Proper and free approach road for fire – fighting vehicles up to the building and for rescue operations in the event of emergency shall be made.	Free approach roads have been provided around the buildings to reach the fire – fighting vehicles up to the building during an emergency.
xxviii)	All Energy Conservation Building Code norms have to be adopted.	Buildings has been designed for better energy conservation & environmental conditions as detailed below: i) Energy efficiency – Integrated design. ii) Sustainable material selection. iii) Lighting efficiency – Optimizing artificial and natural lighting. iv) Solar energy in a large measure particularly in regard to illumination, street lighting and along the road networks. v) Energy efficient CFL / LED lamps. vi) Transformers efficiency is greater than 98%.
xxix)	Personnel working in dusty areas should wear protective respiratory devices and	PPE's of adequate type had been provided for personnel working in dusty area.

S. No.	Compliance Conditions	Compliance Status
	they should also be providing with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective measures, if needed.	Occupational health surveillance program of the workers had been conducted periodically.
xxx)	Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.	Periodical medical examination of the workers involved in the project had been carried out. The workers had been provided with PPE's of adequate type.
xxxi)	A separate environment management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, and the shortfall shall be strictly reviewed and addressed.	An Environmental Cell is acting under the control of Mr. Sivakumaran, COO of KMCH Hospitals has been framed. Qualified personnel are appointed to follow the EMP activities.

Part C – Conditions for Operation Phase / Post Construction Phase / Entire Life of the Project

S. No	Compliance Conditions	Compliance Status
i)	The Project Proponent shall ensure compliance of EC conditions related to Pre-construction and Construction phases before the facility is handed over for occupancy and shall report to SEIAA verified by Regional Office, MOEF&CC, Chennai.	We have ensured the compliance of EC conditions related to Pre-construction and Construction phases before the operation and we have reported to SEIAA and Regional Office, MOEF&CC, Chennai.
ii)	The implementation of Environment Management Plan in regard to operation and maintenance of STP & ETP, reuse and disposal of treated	The EMP is implemented to operate and maintain the STP & ETP, reuse and disposal of treated sewage & Effluent, Solid waste Management, Bio-Medical Waste

S. No	Compliance Conditions	Compliance Status
	sewage & Effluent, Solid waste Management, Bio-Medical Waste Management, and CSR Activities should be carried out, as proposed and committed. Regular monitoring should be carried out during construction and operation phases.	Management and CSR Activities. Regular monitoring has been carried out during construction and operation phases. Regular (6 monthly) AAQ & Noise monitoring is being carried out by the NABL accredited laboratory and Monitoring reports are enclosed as **Annexure – X**.
iii)	The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.	Noted and agreed the same.
iv)	Ground water shall be drawn only after obtaining necessary permission from the competent Authority.	Ground water is not tapped for this project.
v)	The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on the recommendation of the Forest department well before the project is ready for occupation.	Greenbelt development has been done with native species in earmarked areas and copy of the photos are enclosed in **Annexure – XI.**
vi)	The proponent should responsible for the maintenance of common facilities including greening, rain water harvesting, sewage treatment and disposal, solid waste disposal and environment monitoring including terrace gardening for the entire period of operation	KMCH is responsible for maintaining all the common facilities for its entire life.
vii)	The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.	Ground water is not tapped for this project.

S. No	Compliance Conditions	Compliance Status
viii)	The Sewage Treatment Plant (STP) & Effluent Treatment Plant (ETP) installed should be certified by an independent expert / reputed Academic institution for its adequacy and a report in this regard should be submitted to the SEIAA, TN before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled /reused to the maximum extent possible. The treated sewage shall conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures should be made to mitigate the odour and mosquito problem from STP &ETP. Explore the less power consuming systems viz. baffle reactor etc. for the treatment of sewage.	STP & ETP report has been certified by Coimbatore Institute of Technology, Coimbatore and copy of the same is enclosed as **Annexure – XII.** The treated sewage is being reused for maximum extent possible and it satisfies the norms and standards for bathing quality laid down by CPCB. Necessary measures are taken to mitigate the odour and mosquito problem from STP & ETP and we use less power consuming systems to the STP & ETP.
ix)	The proponent shall install STP & ETP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.	We have provided adequate capacity of STP & ETP as proposed.
x)	The proponent shall operate STP & ETP continuously by providing stand by DG set in case of power failure.	Standby DG set is provided for continuous operation of STP & ETP during power failure.
xi)	It is the sole responsibility of the proponent that the treated sewage water disposed for green belt development / avenue plantation should not pollute the soil / ground water / adjacent canals / lakes / ponds, etc.	Treated sewage is utilised for toilet flushing and green belt development and the quality of treated sewage is within the standards limits so there is no pollution from it.

S. No	Compliance Conditions	Compliance Status
xii)	The treated sewage utilized for greenery shall meet the guidelines laid down by TNPCB.	Treated sewage used for green belt development is satisfying the standards prescribed by the board and test reports are enclosed as **Annexure – XIII**.
xiii)	All bio medical waste shall be kept in closed container under fenced and roofed area.	All Bio Medical Wastes are stored in closed shed in a designated place under fenced and roofed area.
xiv)	The proponent shall provide and maintain separate closed sheds for the storage of Municipal solid waste, Hazardous Waste, E-Waste & Bio-medical waste exclusively for this project.	Waste sheds are available for the storage of Municipal solid waste, Hazardous Waste, E-Waste & Bio-medical wastes.
xv)	The proponent is directed to maintain enough open spaces for green lungs and tree parks and also tree along the boundary and periphery.	We have provided adequate space for development of green belt and tree parks mostly in the boundary of the campus.
xvi)	Adequate measures should be taken to prevent odour emanating from solid waste processing plant, ETP and STP.	We have taken required measures to control the odour generated from STP.
xvii)	The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management &Handling) Rules 2016.	Plastic wastes are segregated and disposed as per Plastic Waste (Management &Handling) Rules 2016.
xviii)	The e-waste generated should be collected and disposed to a nearby authorized e-waste centre as per e waste (Management &Handling), Rules 2016.	E-waste is collected and disposed to the authorized e-waste centre as per e-waste (Management &Handling) Rules, 2016.
xix)	The biomedical solid waste generated shall be collected in a separate closed shed, segregated using machinery and disposed to the TNPCB authorized Bio Medical Waste Treatment Facility as	Biomedical solid wastes are collected and stored in a separate closed shed, segregated using machinery and disposed to the TNPCB authorized Bio Medical Waste Treatment Facility as per the Bio-Medical Waste Management Rules 2016. Copy of

S. No	Compliance Conditions	Compliance Status
	committed adhering to Bio-Medical Waste Management Rules, 2016	the agreement is enclosed as **Annexure – XIV.**
xx)	The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.	The Municipal solid waste is collected, segregated and disposed as per Solid Waste Management Rules, 2016. Bio degradable waste is treated through bio gas plant and other wastes are disposed to Corporation solid waste management facility.
xxi)	Diesel power generating sets proposed as source of back-up power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG Sets.	DG sets provided are of enclosed type and confirming the emission and Noise norms as per EPA, 1986. Adequate height of stack is provided to all DG sets.
xxii)	The diesel required for operating DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from the Chief Controller of Explosives shall be taken.	Diesel is stored in the site and the license has been obtained from Jt. CCE, SC, Chennai. License No. P/SC/TN/15/2854 (P468117) dated 10.03.2021.
xxiii)	The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower, etc. and the noise level shall be maintained as per MoEF/ CPCB/ TNPCB guidelines/ norms both during day and night time.	Acoustic enclosures are provided to the all noise generating equipment as per the guidelines.
xxiv)	Spent oil from DG sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous and Other Wastes	We are disposing the spent oil as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and through registered recyclers.

S. No	Compliance Conditions	Compliance Status
	(Management and Tran boundary Movement) Rules, 2016. Spent oil from D.G sets should be disposed off through registered recyclers.	
xxv)	The proponent should develop green belt of at least 10 meters wide with trees around the proposed hospital buildings.	We have developed the adequate width of greenbelt around the hospital buildings.
xxvi)	The proponent shall ensure that storm water drain provided at the project site shall be maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed off in the natural drainage / channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.	Proper storm water management is provided and the Storm water drains are maintained to prevent from choking & stagnation. Storm water is properly disposed to the natural drains without disrupting the adjacent public.
xxvii)	The proponent shall ensure that roof rain water collected from the covered roof of the buildings, etc. shall be harvested so as to ensure the maximum beneficiation of rain water harvesting by constructing adequate sumps. So that 100% of the harvested water shall be reused.	The entire campus is designed for an effective and efficient rain water collection and harvesting system.
xxviii)	Rain water harvesting for 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, etc. The Proponent shall provide adequate number of bore wells / percolation pits / etc. as	We have provided adequate no. of rain water harvesting structures with filtration system for removal of pollutants like suspended matter, oil and grease.

S. No	Compliance Conditions	Compliance Status
	committed. The bore wells / percolation pits / etc. for rainwater recharging should be kept at least 5mts. above the highest ground water table.	
xxxix)	Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided.	Solar energy is utilized for illumination of common areas, lighting for gardens and street lighting in addition to the provision for solar water heating.
xxx)	A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy shall be prepared incorporating details about building materials & technology. R&U factors etc. and submitted to the SEIAA in three months' time.	Buildings are designed to increase the efficiency of the buildings and for better energy & environmental conditions as detailed below. 1. Energy efficiency-integrated design. 2. Sustainable material selection. 3. Lighting Efficiency. 4. Optimizing artificial and Natural lighting 5. Solar energy in a large measure particularly regard to illumination, Street lighting and along the road networks. 6. Energy efficient CFL lambs. 7. Transformers efficiency is greater than 98%.
xxxi)	Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off / sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury	We are using CFL / LED bulbs for lighting of the campus. We are disposing the used CFLs and TFLs as per the prevailing guidelines of the regulatory authority to avoid mercury contamination. Solar panels are provided to the extent possible.

S. No	Compliance Conditions	Compliance Status
	contamination. Use of solar panels may be done to the extent possible.	
xxxii)	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized. Parking plan to be as per CMDA norms. The traffic department shall be consulted and any cost-effective traffic regulative facility shall be met before commissioning.	Adequate parking facilities are provided within the project site as per norms and no public space is utilized for parking of vehicles.
xxxiii)	The proponent shall prepare completion plans showing Separate pipelines marked with different colours with the following details. i. Location of STP, ETP compost system, underground sewer line ii. Pipe line conveying the treated effluent for green belt development. iii. Pipe Line conveying the treated effluent for toilet flushing. iv. Water supply pipeline v. Gas supply pipe line, if proposed. vi. Telephone cable vii. Power cable viii. Storm water drains, and ix. Rain water harvesting system, etc and it shall be made available.	The colour coded layout showing location of STP, ETP compost system, underground sewer line, treated water supply line, storm water drains etc., is prepared and submitted along with the EC application.
xxxiv)	A first Aid Room shall be provided during operation of the project, with necessary equipments and life-saving	As it is a hospital project, medical facility is available for 24 hours.

S. No	Compliance Conditions	Compliance Status
	medicines and should be maintained all the 24hours any day.	
xxxv)	The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.	Adequate inter block distance has been provided for fresh air movement, passage of light and ventilation.
xxxvi)	The amount of Rupees equivalent to 0.5% of the Project Cost by the proponent under CSR activity should be ear marked for such activities as committed by the proponent for the purpose for which it was allocated.	We are spending the cost for CSR activities as committed.
xxxvii)	Lighting arrester shall be properly designed and installed at top of the building and where ever is necessary.	Lighting arrester is provided at top of the building where ever is necessary.
xxxviii)	The environmental statement for each financial year ending 31st March in Form – V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules 1986 as amended subsequently shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Bangalore by e-mail.	We are regularly submitting the environmental statement (Form - V) on every year to TNPCB and copy enclosed as **Annexure – XV**. The EC compliance is submitted to MoEFCC - RO at Chennai regularly.
xxxix)	This Environmental Clearance does of imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and	Necessary statutory clearance has been obtained from concerned authorities.

S. No	Compliance Conditions	Compliance Status
	be taking decisions independently of the Environmental Clearance.	
xl)	The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.	Noted and agreed the same.
xli)	The Environment Clearance does not absolve the applicant/ proponent of his obligation/ requirement to contain other statutory and administrative clearances from other statutory/ administrative authorities.	Necessary statutory clearance has been obtained from concerned authorities.
xlii)	The SEIAA, TN may cancel the environment clearance granted to this project under the provisions of EIA Notification, 2006. If at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA. TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environment clearance.	All data provided for obtaining the Environmental Clearance is true and no false or misleading information is provided.
xliii)	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, Chennai, the respective Zonal office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely: SPM, RSPM,	We have uploaded the status of compliance of the stipulated EC conditions including results of monitored data on our website and will update the same periodically. It is being sent to the Regional Office of MoEF, Chennai, and the respective Zonal office of CPCB, Chennai and TNPCB. The criteria pollutant levels namely: SPM, RSPM, SO_2, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters,

S. No	Compliance Conditions	Compliance Status
	SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.	indicated for the project is being monitored. Monitoring report is enclosed.
xliv)	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	An Environmental Cell is acting under the control of Mr. Sivakumaran - COO of KMCH Hospitals has been framed. Qualified personnel are appointed to follow the EMP activities.
xlv)	The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the regional Office by furnishing the requisite data/ information/ monitoring reports.	Noted and agreed the same.
xlvi)	The project proponent shall submit progress reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Chennai, the respective Zonal Office of Central Pollution Control Board, SEIAA, TN and the State Pollution Control Board once in six months.	We are submitting the progress reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Chennai, the respective Zonal Office of Central Pollution Control Board, SEIAA, TN and the State Pollution Control Board once in six months.
xlvii)	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions	Noted and agreed the same.

S. No	Compliance Conditions	Compliance Status
	of the Environment (Protection) Act, 1986.	
xlviii)	The above conditions will be enforced inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Production) Act 1986, the Public Liability Insurance Act 1991, along with their amendments draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission of protection of Child Right Rules, 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ Hon'ble High Court of Madras and any other Courts of Law, including the Hon'ble Natural Green Tribunal relating to the subject matter.	Noted and agreed the same.

Enviro Solutions & Labs

A5, Cheran Nagar, Off. Mettupalayam Road,
Kavundampalayam, GN Mills (Post), Coimbatore - 641 029. Tamilnadu.
: info@envislab.com : www.envislab.com : 0422 4200600

TEST REPORT

Issued To

M/S. KOVAI MEDICAL CENTRE & HOSPITAL LIMITED
Post Box No. 3209,
Avinashi Road,
Coimbatore -641 014.

Report No. : **ESL/2403/AAQ/6666**
Report Date : 22.03.2024
Sample Code : ESL2403297-298

SAMPLE DETAILS			
Nature of Sample	Air Quality	Sample Description	Ambient Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	16.03.2024	Sample Received On	16.03.2024
Analysis Commenced On	16.03.2024	Analysis Completed On	22.03.2024

S.No	Parameters	Results		Test Method	NAAQ Standards
		AAQ1	AAQ2		
1	Particulate Matter size less than 10- µm (PM10), µg/m³	51.6	53.8	IS 5182 (P23):2006(RA:2017)	100
2	Particulate Matter size less than 2.5- µm (PM2.5), µg/m³	23.9	26.1	IS: 5182 (P-24) :2019	60
3	Sulphur Dioxide (SO2), µg/m³	8.0	9.4	IS 5182 (P-2):2006(RA:2017)	80
4	Nitrogen Dioxide (NO2), µg/m³	28.7	23.2	IS 5182 (P-6):2006(RA:2017)	80
5	Carbon Monoxide (CO), mg/m³	BQL (LOQ:1.0)	BQL (LOQ:1.0)	ESL/SOP/02:2023	2
6	Ozone, µg/m³	BQL (LOQ:5)	BQL (LOQ:5)	IS 5182 (P- 9):1974(RA:2019)	180
7	Ammonia, µg/m³	BQL (LOQ:5)	BQL (LOQ:5)	ESL/SOP/01:2023	400
8	Lead (Pb), µg/m³	BQL (LOQ:0.025)	BQL (LOQ:0.025)	IS 5182 (P22):2004(RA:2019)	1
9	Benzene, µg/m³	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P11):2006(RA:2017)	5
10	Benzo(a)pyrene, ng/m³	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P12):2004(RA:2019)	1
11	Arsenic, ng/m³	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/19:2024	6
12	Nickel, ng/m³	BQL (LOQ:2.5)	BQL (LOQ:2.5)	USEPA IO – 3.2	20

Note: BQL-Below Quantification Limit, LOQ – Limit of Quantification

AAQ1: Western Side of the Campus
AAQ2: North West Side of the Campus

End of Report

Authorised Signatory
I. Ram Ganesan
Technical Manager

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- The test items will not be retained more than 15 days from the date of issue of the test report unless specifically requested

Enviro Solutions & Labs

A5, Cheran Nagar, Off. Mettupalayam Road,
Kavundampalayam, GN Mills (Post), Coimbatore - 641 029. Tamilnadu.
: info@envislab.com : www.envislab.com : 0422 4200600

TEST REPORT

Issued To

M/S. KOVAI MEDICAL CENTRE & HOSPITAL LIMITED
Post Box No. 3209,
Avinashi Road,
Coimbatore -641 014.

Report No. : **ESL/2403/AAQ/6667**
Report Date : 22.03.2024
Sample Code : ESL2403299-300

SAMPLE DETAILS			
Nature of Sample	Air Quality	Sample Description	Ambient Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	16.03.2024	Sample Received On	16.03.2024
Analysis Commenced On	16.03.2024	Analysis Completed On	22.03.2024

S.No	Parameters	Results		Test Method	NAAQ Standards
		AAQ3	AAQ4		
1	Particulate Matter size less than 10- µm (PM10), µg/m³	57.4	55.7	IS 5182 (P23):2006(RA:2017)	100
2	Particulate Matter size less than 2.5- µm (PM2.5), µg/m³	22.1	25.9	IS: 5182 (P-24) :2019	60
3	Sulphur Dioxide (SO2), µg/m³	6.9	7.8	IS 5182 (P-2):2006(RA:2017)	80
4	Nitrogen Dioxide (NO2), µg/m³	18.8	20.7	IS 5182 (P-6):2006(RA:2017)	80
5	Carbon Monoxide (CO), mg/m³	BQL (LOQ:1.0)	BQL (LOQ:1.0)	ESL/SOP/02:2023	2
6	Ozone, µg/m³	BQL (LOQ:5)	BQL (LOQ:5)	IS 5182 (P- 9):1974(RA:2019)	180
7	Ammonia, µg/m³	BQL (LOQ:5)	BQL (LOQ:5)	ESL/SOP/01:2023	400
8	Lead (Pb), µg/m³	BQL (LOQ:0.025)	BQL (LOQ:0.025)	IS 5182 (P22):2004(RA:2019)	1
9	Benzene, µg/m³	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P11):2006(RA:2017)	5
10	Benzo(a)pyrene, ng/m³	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P12):2004(RA:2019)	1
11	Arsenic, ng/m³	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/19:2024	6
12	Nickel, ng/m³	BQL (LOQ:2.5)	BQL (LOQ:2.5)	USEPA IO – 3.2	20

Note: BQL-Below Quantification Limit, LOQ – Limit of Quantification
AAQ 3: South East Side of the Campus
AAQ 4: Northern Side of the Campus

End of Report

Enviro Solutions & Labs ENVISLAB Coimbatore

Authorised Signatory
22/3/24
I. Ram Ganesan
Technical Manager

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Enviro Solutions & Labs

A5, Cheran Nagar, Off. Mettupalayam Road,
Kavundampalayam, GN Mills (Post), Coimbatore - 641 029. Tamilnadu.
: info@envislab.com : www.envislab.com : 0422 4200600

TEST REPORT

Issued To

M/S. KOVAI MEDICAL CENTRE & HOSPITAL LIMITED
Post Box No. 3209,
Avinashi Road,
Coimbatore -641 014.

Report No. : **ESL/2403/N/6668**
Report Date : 22.03.2024
Sample Code : ESL2403301

SAMPLE DETAILS			
Nature of Sample	Air Quality	Sample Description	Ambient Noise
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	16.03.2024	Sample Received On	16.03.2024
Analysis Commenced On	16.03.2024	Analysis Completed On	22.03.2024

S. No.	Location	Ambient Noise Level [dB(A)]	
		Day	Night
1	North East corner of the plant	54.9	42.8
2	North West corner of the plant	53.2	45.3
3	South East corner of the plant	51.8	42.1
4	South West corner of the plant	54.7	40.9
5	Southern side of the plant	54.1	41.7
6	Eastern side of the plant	50.9	43.9
7	Western side of the plant	54.7	43.1
8	Northern side of the plant	51.8	40.8

AMBIENT NOISE STANDARDS

Zone Classification	Day dB(A)	Night dB(A)
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

End of Report

Enviro Solutions & Labs ENVISLAB Coimbatore

Authorised Signatory
I. Ram Ganesan
Technical Manager

Enviro Solutions & Labs

A5, Cheran Nagar, Off. Mettupalayam Road,
Kavundampalayam, GN Mills (Post), Coimbatore - 641 029. Tamilnadu.
: info@envislab.com : www.envislab.com : 0422 4200600

TEST REPORT

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Post Box No. 3209,
Avinashi Road,
Coimbatore -641 014.

Report No. : **ESL/2403/N/6669**
Report Date : 22.03.2024
Sample Code : ESL2403302

SAMPLE DETAILS			
Nature of Sample	Air Quality	Sample Description	Source Noise
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	16.03.2024	Sample Received On	16.03.2024
Analysis Commenced On	16.03.2024	Analysis Completed On	22.03.2024

S. No.	Location	Insertion Loss [dB(A)]	Standards [dB(A)]*
1	**DG Set I -1500 KVA**	25.2	>25
2	**DG Set II -1500 KVA**	25.3	
3	**DG Set -2000 KVA**	25.6	

*Note: The above DG Sets confirms the standards as prescribed in Environment (Protection) Amendment Rules 2002 vide GSR 371 (E) dated 17th May 2002 for Diesel Generator Sets.

*****End of Report*****

Enviro Solutions & Labs ENVISLAB Coimbatore

Authorised Signatory
22/3/24
I. Ram Ganesan
Technical Manager

Enviro Solutions & Labs

A5, Cheran Nagar, Off. Mettupalayam Road,
Kavundampalayam, GN Mills (Post), Coimbatore - 641 029. Tamilnadu.
: info@envislab.com : www.envislab.com : 0422 4200600

TEST REPORT

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M/S. KOVAI MEDICAL CENTRE & HOSPITAL LIMITED
Post Box No. 3209,
Avinashi Road,
Coimbatore -641 014.

Report No. : **ESL/2403/SM/6670**
Report Date : 22.03.2024
Sample Code : ESL2403303-305

SAMPLE DETAILS			
Nature of Sample	Source Emission Monitoring	Sample Description	Stack Monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	16.03.2024	Sample Received On	16.03.2024
Analysis Commenced On	16.03.2024	Analysis Completed On	22.03.2024

S. No	STACK DETAILS	DG Set I - 1500 KVA	DG Set II - 1500 KVA	DG Set 2000 KVA
1	Stack height (m)	31.5	31.5	30
2	Stack Diameter (m)	0.3	0.40	0.45
3	Cross Sectional Area (m^2)	0.07065	0.1256	0.159
4	Velocity of Flue Gas (m/sec)	15.5	15.7	14.9
5	Gas Discharge (Nm^3/hr)	2683	4617	5534
6	Stack gas temperature (K)	429	449	450

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm^3)	Oxides of Nitrogen (ppm)	Carbon Monoxide (mg/Nm^3)	Sulphur Dioxide (mg/Nm^3)	CO_2 (%)
1	**DG Set I - 1500 KVA**	48.7	191	97	5.8	4.4
2	**DG Set II - 1500 KVA**	50.2	178	101	5.2	4.6
3	**DG Set - 2000 KVA**	46.4	159	105	4.8	4.3
Standards		**75**	**710**	**150**	---	---

Method: IS 11255 Part 1 (Reaff.2003) and Flue Gas Analyzer.

*As per Environmental Production Act 1986 the Emission standards for diesel generator more than 800KW amendment rule vide GSR 280(E) dated 11th April 2008.

End of Report

Enviro Solutions & Labs ENVISLAB Coimbatore

Authorised Signatory
I. Ram Ganesan
Technical Manager

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Kavundampalayam, GN Mills (Post), Coimbatore - 641 029. Tamilnadu.
: info@envislab.com : www.envislab.com : 0422 4200600

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Post Box No. 3209,
Avinashi Road,
Coimbatore -641 014.

Report No. : **ESL/2403/SM/6671**
Report Date : 22.03.2024
Sample Code : ESL2403306

SAMPLE DETAILS			
Nature of Sample	Source Emission Monitoring	Sample Description	Stack Monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	16.03.2024	Sample Received On	16.03.2024
Analysis Commenced On	16.03.2024	Analysis Completed On	22.03.2024

S. No	STACK DETAILS	Boiler (0.6 T/Hr)
1	Stack height (m)	10
2	Stack Diameter (m)	0.3
3	Cross Sectional Area (m^2)	0.0707
4	Velocity of Flue Gas (m/sec)	7.9
5	Gas Discharge (Nm^3/hr)	1525
6	Stack gas temperature (K)	385

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm^3)	Sulphur Dioxide at 3% O_2 (mg/Nm^3)	Oxides of Nitrogen at 3% O_2 (mg/Nm^3)	Carbon monoxide (mg/Nm^3)	Carbon dioxide (%)
1	**Boiler (0.6 T/Hr)**	37.3	6.9	125	20.2	6.1
Standards		**150***	**600****	**300****	---	---

Method: IS 11255 Part 1 (Reaff.2003) and Flue Gas Analyzer.

* CPCB General Emission Standard for Particulate Matter; **Emission standard for Boilers published in the Gazette of India vide number GSR 96(E) dated 29.01.2018.

End of Report

Enviro Solutions & Labs ENVISLAB Coimbatore

Authorised Signatory
22/3/24
I. Ram Ganesan
Technical Manager