



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

To,

The Chairman

SAMANA HEALTH CARE SERVICES LLP

Samana Health Care Services LLP, First Floor, Block - D, City Plaza, Central Bazar, Manjeri, Malappuram -676121

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity

under the provision of EIA Notification 2006-regarding

Sir/Madam.

7.

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/KL/INFRA2/451117/2023 dated 04 Nov 2023. The particulars of the environmental clearance granted to the project are as below.

1. EC24B038KL116931 EC Identification No.

1468/EC3/2019/SEIAA 2. File No.

3. **Project Type** New 4.

Category В

8(a) Building and Construction projects 5. Project/Activity including Schedule No.

6. Name of Project Proposed super speciality hospital project

of Samana Happiness Hospital

SAMANA HEALTH CARE SERVICES Name of Company/Organization

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.

(e-signed) Dr Rathan Ü kelkar IAS Date: 11/02/2024 **Member Secretary** SEIAA - (KERALÁ)



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.

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

(Present: Dr.H.Nagesh Prabhu IFS (Retd), Chairman, Shri.K.Krishna Panicker, Member, Dr.Rathan U.Kelkar IAS, Member Secretary)

Sub: Environmental Clearance for the Hospital Complex of Sri. O.M Abdul Rasheed, Chairman & Managing Director, Samana Health Care Services LLP at Block No.52, Re-Sy Nos: 52/6-2-1, 52/6-2-2, 50/41, 50/25, 51/24, 51/22, 51/25, 52/6-1 in Manjeri Village, Ernad Taluk, Malappuram – Granted – Orders issued.

## State Level Environment Impact Assessment Authority, Kerala

### Proposal No. SIA/KL/INFRA/451117/2022 File No.1468/EC3/2019/SEIAA

- Ref: 1. Application received from Sri. O.M Abdul Rasheed via PARIVESH on 04.11.2023.
  - 2. Minutes of the  $154^{th}$  SEAC meeting held on  $02^{nd}$  December 2023.
  - 3. Minutes of the 136<sup>th</sup> meeting of SEIAA held on 09<sup>th</sup> January 2024.

## **ENVIRONMENTAL CLEARANCE NO. 29/B/2024**

Sri. O.M Abdul Rasheed, Chairman & Managing Director, Samana Health Care Services LLP, First Floor, Block - D, City Plaza, Central Bazar, Manjeri, Malappuram submitted an application for Environmental Clearance via PARIVESH for the Hospital Complex at Block No.52, Re-Sy Nos: 52/6-2-1, 52/6-2-2, 50/41, 50/25, 51/24, 51/22, 51/25, 52/6-1 in Manjeri Village, Ernad Taluk, Malappuram

## 1) The Project Details

Sl. No.	Description	Details
1	Name of the project	Samana Happiness Hospital – A Super Speciality Hospital
2	Name of the Sector & Schedule No. (in the EIA Notification, 2006)	8(a) Building & Construction Projects
3	Name & Address of the project Proponent	Sri. O.M Abdul Rasheed Chairman & Managing Director Samana Health Care Services LLP First Floor, Block - D, City Plaza Central Bazar Manjeri, Malappuram - 676121
4	Project Location	
	a) Block No.	52
	b) Re Survey Nos	52/6-2-1, 52/6-2-2, 50/41, 50/25, 51/24, 51/22, 51/25, 52/6-1
	c)Revenue Village	Manjeri
	d) Taluk	Ernad
	e) District	Malappuram
5	Total number of beds	582
6	Total Built Up area	51931.30 sq.m
7	Project Cost	Rs. 208.82 Crore

## 2) EMP Details

### (a) Construction Phase

		Capital Cost	Recurring Cost per year
Sl.No	Particulars	(Rs)	
1	Dust & Noise barrier around the	7,40,000	-
	construction site - 6 high barricades for		
	700 m (perimeter)		
2	Dust Suppression (700 m length for 3	-	2,55,000
	times a day)		
3	Excavated Soil Protection	50,000	-
4	Wastewater Management (Portable STP)	2,00,000	22,000
5	Solid Waste Management	1,00,000	25,000
6	Storm Water Management (detention and	5,00,000	-
	settling)		
7	PPE for 150 workers	2,60,000	40,000

10 Environmental Monitoring Cost  TOTAL		- Rs.1,920,000/-	1,15,000 Rs. 6,72,000/-
10	months)		1.15.000
9	Medical camps for workers (once in 6	-	2,00,000
0	Madical sames fan regulares (anasin (		2.00.000
8	Warning boards at the site (10 Nos)	70,000	15,000

### b) Operation Phase

		Capital Cost	Recurring Cost per year
Sl.No	Particulars	(Rs)	
1	Landscape development (area of 4951 m2)	12,40,000	1,30,000
2	Rainwater harvesting	40,00,000	4,00,000
3	Wastewater Management (STP of 400	1,60,00,000	1,60,000
	KLD)		
4	Solid waste management (OWC of	20,00,000	4,28,000
	capacity 120kg per batch / 1000kg per day		
	per shift)		
5	Solar panels of capacity 400 kW	2,40,00,000	1,80,000
6	Environmental monitoring cost	-	1,72,000
7	Storm Water Management (Drains 0.6m	20,00,000	1,00,000
	wide)		
	TOTAL	Rs. 49,240,000/-	Rs. 1,570,000/-

### **III) CER Details**

Sl.No.	Name of Activities	Cost ( Rs.)
1.	Construction and Renovation work for Puthukkudi Canal	1,63,77,300 /-
2.	Construction and Renovation work for Chaalikkathodu Canal	1,42,64,100/-
	Total	Rs. 3,06,41,400/-

2. In the 154<sup>th</sup> SEAC meeting, the Committee examined the proposal in detail and recommended EC for a period of 10 years subject to the Specific Conditions in addition to the General Conditions.

- 3. In the 136<sup>th</sup> SEIAA meeting, the Authority decided to issue EC for the Hospital Project, Samana Health Care Services LLP with total built up area of 51931.30 sq. m. for a period 10 years (as per OM dated 13.12.2022) under Category 8(a) 'Building and Construction Projects' subject to the following Specific Conditions in addition to the General Conditions.
  - 1. Treated water from STP should be reused to the maximum extent and balance if any should be discharged through a series of soak pits for recharging the local ground water, and for avoiding discharge of treated water into the nearby public drain.
  - 2. Local topography of the land profile should be maintained as such by avoiding deep cutting /filling.
  - 3. The Project Proponent should make provision for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).
  - 4. Entrance from main road to be widened to 12 m width.
  - 5. Ensure separate emergency exit to main road.
  - 6. Open well near entrance must be suitably protected to prevent pollution/contamination.
  - 7. Optimum yield of the open wells in the project area must be fixed through pump test and pumping must be limited to that extent.
  - 8. Provide adequate storm water drainage and drainage canal outside the entrance must be properly developed to ensure free flow.
  - 9. Climate-responsive design as per Green Building Guidelines in practice should be adopted.
  - 10. Adequate greening measures should be adopted on the ground as well as over built structure such as roofs, basements, podiums etc.
  - 11. Exposed roof area and covered parking should be covered with material having high solar reflective index.
  - 12. Building design should cater to the differently-abled citizens.

- 13. Appropriate action should be taken to ensure that the excess rainwater runoff reaches the nearest main natural drain of the area and if necessary, carrying capacity of the natural drain should be enhanced to contain the peak flow.
- 14. Water efficient plumbing features should be adopted.
- 15. Design of the building should be in compliance to Energy Building Code as applicable.
- 16. Energy conservation measures as proposed in the application should be adopted in total.
- 17. Buildings to be constructed should be barricaded with GI sheets of 6 m. (20 feet) height so as to avoid disturbance to other buildings nearby.
- 18. Construction work should be carried out during day time only.
- 19. All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed.
- 20. All vehicles carrying construction materials should be fully covered and protected.
- 21. All construction material of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
- 22. Grinding & cutting of building materials should not be done in open areas. Water jets should be used in grinding and stone cutting.
- 23. Occupational health safety measures for the workers should be taken during the construction.
- 24. All vehicles during the construction phase should carry PUC certificate.
- 25. 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.
- 26. Green belt should be developed along the periphery of the site with indigenous species. The suggested species are Phyllanthus emblica (Nelli), Syzygium cumini (Njaval), Writia tinctoria (Dhanthapala), Ficus bengalensis (Peral), Ficus racemosa (Atti), Bambusa bambos (Mullumula), Dendrocalamus strictus (Kallan mula), Strychnos nux-vomica (Kanjiram), Terminalia cattappa (Thanni), Schleichera oleosa (Poovam), Artocarpus hirsutus (Ayiniplavu) etc.
- 27. The green building criteria notified in the GO (Ms) No. 39/2022/LSGD dated 25.02.2022 should be adopted.

- 28. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.
- 29. 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.
- 30. The half-yearly compliance report should have specific details supported with data and evidence instead of general statements.
- 31. The disposal of construction and demolition waste shall be dealt with as per rules, if necessary through the accredited agencies.
- 32. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.
- 4. In this circumstance, Environmental Clearance is hereby issued for the Hospital Complex, Samana Health Care Services LLP at Block No.52, Re-Sy Nos: 52/6-2-1, 52/6-2-2, 50/41, 50/25, 51/24, 51/22, 51/25, 52/6-1 in Manjeri Village, Ernad Taluk, Malappuram with total built up area of 51931.30 sq. m. for a period 10 years (as per OM dated 13.12.2022) under Category 8(a) 'Building and Construction Projects' subject to the Specific Conditions as in Para (3), in addition to the General Conditions.
- 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 EC, 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 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, Malappuram 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 Sri. O.M Abdul Rasheed, Chairman & Managing Director, Samana Health Care Services LLP, First Floor, Block D, City Plaza, Central Bazar, Manjeri, Malappuram

#### **GENERAL CONDITIONS**

- 1. 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.
- 2. The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available on the website of SEIAA www.seiaakerala.in. The advertisement should be made within 10 days from the date of 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 confirmation.

- 3. The proponent shall send a copy of the clearance letter to the 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 uploaded on the website of the company.
- 4. 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.
- 5. Consent to Establish and Consent to Operate from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives. Copies of statutory clearance obtained shall be enclosed along with first half yearly compliance report.
- 6. If blasting is involved in the preparation of site, the required clearances from the competent authorities should be obtained.
- 7. The stipulations/conditions issued 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, Solid Waste Management Rules, 2016 Plastic Waste Management and Handling Rules, 2016, Construction and Demolition Waste Management Rules 2016, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
- 8. The conditions specified in the EIA notifications 2006 and subsequent amendments, the specific directions given by SEIAA/SEAC should be followed under corporate Environment Responsibility. The activities carried out under CER should be listed with details in Half yearly compliance report along with Status of Implementation and certificates from the beneficiaries and photographs.
- 9. Safety measures should be implemented as per the Fire and Safety Regulations/SDMA guidelines.
- 10. The environmental safeguards contained in the EIA Report should be implemented in letter and spirit and status of implementation of each one should be included in the half yearly compliance Report.
- 11. Environment Monitoring Committee as agreed under the affidavit filed by the proponent should be formed and made functional. Environmental Monitoring Committee with defined functions and

- responsibility should foresee post operational environmental problems (Eg. development of slums near the site, increase in traffic congestion, power failure, increase in noise level, natural calamities, and increase in suspended particulate matter etc.) and action taken to solve these immediately with mitigation measures
- 12. Suitable avenue trees should be planted on either side of approach road and internal roads and open parking areas, if any. The proponent should plant trees at least 5 times of the loss of trees that has occurred while clearing the land for the project. The native flowering and fruiting species only shall be used for planting and planning should be done considering the nature of public use.
- 13. The project shall incorporate devices for solar energy generation and utilization to the maximum possible extent with the possibility of contributing the same to the power grid and consumption in future.
- 14. The proponent shall submit half yearly compliance reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by email) and upload the same on their website and shall update the same periodically. The compliance repot shall be simultaneously sent to the Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India at Bengaluru and also to SEIAA.
- 15. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time. Provision should be made for providing cooking facilities and supply of kerosene or cooking gas to the labourers.
- 16. The proponent shall co-operate with and provide facilities and documents/data to the Agencies including the Officials from the Regional of Ministry of Environment, Forests and Climate Change, Bengaluru during their inspection as part of monitoring the implementation of environmental safeguards.
- 17. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- 18. In case of transfer of EC, the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.
- 19. Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.
- 20. 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.
- 21. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal 1, if preferred, within a period of 30 days as prescribed under section 11 of the National Green Tribunal Act, 1997.

#### General Conditions specific to Construction Phase

- 1. All statutory permissions including "Consent for Establishment" to STP/ETP, Solid waste management plant, Power Generator etc shall be obtained from Kerala State Pollution Control Board under Air Act and Water Act and Environment (Protection) Act. A copy shall be submitted to the Ministry/SEIAA before start of any construction work at the site.
- 2. The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightning etc. Building constructed in the runout area of landslide / rock fall area, shall be provided with suitable structures/ measures to prevent earth materials to hit the structure.
- 3. All required sanitary and hygienic measures should be in place before starting construction activities which are to be maintained throughout the construction phase.
- 4. A First Aid Room shall be provided at the project site both during construction and operation phases of the project.
- 5. Provide safe and healthy basic facilities for construction workers as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996
- 6. Adequate drinking water and sanitary facilities should be provided for construction workers at the site, Provision should be made for mobile toilets. Safe disposal of wastewater and solid wastes generated including piling debris during the construction phase should be ensured.
- 7. Unless provided otherwise, all the topsoil excavated during construction phase should be stored and re-used for backfilling/horticulture/landscaping purposes within the project site.
- 8. Top soil excavated should not be used for reclaiming wetlands.
- 9. The muck shall be disposed of only at approved sites with the approval of competent authority. The disposal should not create any adverse effect on the neighbouring communities and should be disposed taking necessary precautions for general safety and health of the public. Proof regarding the same shall be enclosed with the respective six monthly compliance reports.

- 10. Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such materials must be secured so that they will not leach into the ground water.
- 11. Any hazardous waste generated during construction phase, should be disposed off to authorised/approved Waste Collectors as per applicable rules and norms with necessary approval of the Kerala State Pollution Control Board.
- 12. Soil and ground water samples shall be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- 13. Storm water control and its re-use measures as per CGWB and BIS standards shall be followed for various applications.
- 14. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to the applicable air and noise emission standards and should be operated only during non-peak hours. During the transportation of building materials/products, the vehicles shall be covered with suitable materials to prevent dust pollution.
- 15. Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be taken to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/KSPCB.
- 16. The diesel generator sets used during construction phase should be of low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards. The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken. DG sets shall be installed and made functional as per guidelines of KSPCB.
- 17. Ready mixed concrete must be used in building construction. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- 18. Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- 19. Separate dual plumbing line should be provided; one line for Toilet Flushing / Gardening / Vehicle wash and another separate line for other domestic uses, for ensuring reuse / recycle of treated waste water to the maximum extent possible.

- 20. Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- 21. Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- 22. Water efficient plumbing features should be adopted
- 23. Use of glass may be reduced by 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating on windows.
- 24. Design of the building should be in compliance to Energy Building Code as applicable
- 25. Roof should meet perspective requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill the requirement.
- 26. Opaque wall should meet perspective requirement as per energy Conservation Building Code which is proposed to be mandatory for all air conditioned spaces while it is optional for non-airconditioned spaces by use of appropriate thermal insulation material to fulfill requirement
- 27. Climate responsive design as per Green Building Guidelines in practice should be adopted
- 28. Building design should cater to the differently-abled citizens
- 29. Vegetation should be adopted appropriately on the ground as well as over built structure such as roofs, basements, podiums etc.
- 30. Exposed roof area and covered parking should be covered with material having high solar reflective index
- 31. Regular supervision of the above and other measures should be in place all throughout the construction phase, so as to avoid disturbance to the surroundings.
- 32. Fly ash should be used as building material in construction as per the provisions of Fly Ash Notification of September, 1999 and Amended as on 27<sup>th</sup> August 2003. (Applicable to Power Stations).
- 33. Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining the statutory clearances.

#### General Conditions specific to operation phase

- 1. The buildings should have adequate distance between them to allow movement of fresh air and passage of natural light and ventilation.
- 2. Sewage Treatment Plant (STP) should be installed and made functional as per KSPCB

guidelines. On/site Treatment of Sewage and Sullage should be done with scientific method ,ensuring efficiency of treatment, ease in operation, sustainability and it should contain the units of primary, secondary, tertiary and quaternary type of treatment scheme. The installation of the STP should be certified by an independent expert and a report in this regard should be submitted to the Ministry/SEIAA before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. Treatment of 100% grey water shall be done through a decentralized treatment. Reuse of water shall be practiced for flushing process and garden purposes. Discharge of unused treated effluent shall conform to the norms and standards of the Kerala State Pollution Control Board. Necessary measures should be taken to mitigate the odour problem from STP.

- 3. Solid waste management plant shall be installed and made functional as per the guidelines of KSPCB. The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material. Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
- 4. Provide adequate Material Collection Facility (MCF) for storage of non-biodegradable waste including plastic waste and E waste, for handing over the same to Recyclers/ Local Body, as stipulated by Kerala State Pollution Control Board.
- 5. Diesel power generating sets proposed as source of back up power for elevators and common area illumination 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.
- 6. Low sulphur diesel shall be used as fuel in DG sets. The location of the DG sets may be decided in consultation with Kerala State pollution Control Board. DG sets should not be housed in sub basement levels.
- 7. Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time, the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- 8. The green belt of adequate width and density shall be raised preferably with local species along the periphery of the project site so as to provide protection against particulate matter and noise.
- 9. Weep holes shall be provided in the compound walls to ensure natural drainage of rain water during the monsoon period.

- 10. Rain Water Harvesting structures should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified elsewhere. Rain water harvesting measures for roof run-off and surface run-off, as per approved building plan should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 5 m above the highest ground water table.
- 11. The ground water level and its quality should be monitored regularly in consultation with State Groundwater Department/Central Ground Water Authority.
- 12. Traffic congestion near the entry and exit points from the roads adjoining the project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- 13. A Report on the energy conservation measures, conforming to energy conservation norms issued by Bureau of Energy Efficiency, should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the Ministry in three months time.
- 14. Energy conservation measures like installation of LED /CFLs/TFLs for the lighting the areas outside the building should be an integral part of the project design and should be in place before project commissioning. Used LED/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 contamination. Solar panels may be used to the extent possible.

Sd/-Administrator, SEIAA For Member Secretary, SEIAA

To,

Sri. O.M Abdul Rasheed, Chairman & Managing Director, Samana Health Care Services LLP, First Floor, Block - D, City Plaza, Central Bazar, Manjeri, Malappuram

#### 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: <a href="mailto:rosz.bng-mefcc@gov.in">rosz.bng-mefcc@gov.in</a>).

- 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 District Collector, Malappuram.
- 5. The District Town Planner, Malappuram.
- 6. The Member Secretary, Kerala State Pollution Control Board
- 7. The Envtl.Engineer, KSPCB, District Office, Malappuram.
- 8. The Secretary, Manjeri Muncipality, Malappuram
- 9. The Chairman, SEIAA, Kerala
- 10. Website
- 11. Stock file
- 12. O/C