

Proceedings of the State Environment Impact Assessment Authority Kerala

Present: Prof. (Dr.) K.P. Joy, Chairman; Dr. J. Subhashini, Member and Sri. P.H.Kurian, I.A.S., Member Secretary.

Sub: SEIAA- Environmental clearance for the Proposed Hospital Complex Project in Sy. Nos. 442/19, 442/10-1, 442/10, 442/10-2, 440/11-1-2, 440/10-1-1, 441/2-1-1, 440/11-1-1, 440/23-1, 440/22-4, 440/23-2, 440/22-1, 440/12-1-2, 442/3, 442/18, 442/2, 442/4, 442/5, 442/1, 442/7-1, 442/8, 442/9, 442/6, 442/13-1, 442/14-1, 439/12, 439/16-1, 439/9-1, 439/13, 439/15, 439/11, 439/7-3-1, 439/6-1, 439/10, 439/14, 440/10-1-1, 440/11-1-1, 441/15-3, 441/5-2, 441/15-2, 441/15-1, 441/2-1-3, 440/7-1-1, 440/9-1-1, 440/27, 440/22, 440/8-2, 441/5, 441/1, 441/6-1, 441/1-1, 441/2-1-2, 440/9-1, 440/27, 440/25, 440/12-1-4, 440/12-1-3, 440/25-1, 440/22-3, 440/7-1-2, of Attipra Village, Thiruvananthapuran Taluk, Thiruvanathapuran District, Kerala of Dr. Harish Pillai, Chief Executive Officer, M/s Aster DM Healthcare Pvt. Ltd. - Granted-Orders issued.

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA

No.1145/EC/SEIAA/KL/2017

dated, Thiruvananthapuram 17.03.2018

- Ref: 1. Application dated 08-07-2017 from Dr. Harish Pillai, Chief Executive Officer, M/s Aster DM Healthcare Pvt. Ltd.
 - 2. Minutes of the 80th meeting of SEAC held on 11th October, 2017.
 - 3. Minutes of the 81st meeting SEAC held on 30th & 31st October, 2017.
 - 4. Minutes of the 82nd meeting of SEAC held on 25th November, 2017.
 - 5. Minutes of the 84th meeting of SEAC held on 22nd & 23rd January, 2018.
 - 6. Minutes of the 80th meeting of SEIAA held on 16.02.2018.
 - 7. Affidavit dated 16.03.2018 from Dr.Harish Pillai, Chief Executive Officer, M/s Aster DM Healthcare Pvt. Ltd.

ENVIRONMENTAL CLEARANCE NO. 44/2018

Dr.Harish Pillai, Chief Executive Officer, M/s Aster DM Healthcarc Pvt. Ltd., Aster Medicity, Kuttisahib Road, Near Kothad Bridge, South Chittoor P.O. Cheranalloor, Kochi, Ernakulam – 682027, vide his application received online, has sought Environmental Clearance under EIA Notification, 2006 for the Proposed Hospital Complex Project in Sy. Nos. 442/19, 442/10-1, 442/10, 442/10-2, 440/11-1-2, 440/10-1-1, 441/2-1-1, 440/11-1-1, 440/23-1, 440/23-2, 440/23-2, 440/23-1, 440/23-1, 442/3, 442/3, 442/3, 442/4, 442/5,

442/1, 442/7-1, 442/8, 442/9, 442/6, 442/13-1, 442/14-1, 439/12, 439/16-1, 439/9-1, 439/13, 439/15, 439/11, 439/7-3-1, 439/6-1, 439/10, 439/14, 440/10-1-1, 440/11-1-1, 441/15-3, 441/5-2, 441/5-2, 441/5-1, 441/2-1-3, 440/7-1-1, 440/12-1-1, 440/9-1-1, 440/22, 440/8-2, 441/5, 441/1, 441/6-1, 441/1-1, 441/2-1-2, 440/9-1, 440/27, 440/25, 440/12-1-4, 440/12-1-3, 440/25-1, 440/22-3, 440/7-1-2, at Attipra Village, Thiruvananthapuram Taluk, Thiruvanathapuram District, Kerala. It is interalia, noted that the project comes under the Category B, 8(a) of Schedule of EIA Notification 2006. No forest land is involved in the present project.

Details of the project as furnished by the applicant are as follows:-

BASIC INFORMATION OF BUILDING PROJECT PART A

File No. 1145 / EC / SEIAA / KL / 2017		
Environmental Clearance for Hospital Complex Project by M/s Aster DM Healthcare (Trivandrum) Pvt. Ltd. Dr. Harish Pillai, Chief Executive Officer, M/s Aster DM Healthcare (Trivandrum) Pvt. Ltd. Dr. Harish Pillai, Chief Executive Officer, M/s Aster DM Healthcare (Trivandrum) Pvt. Ltd. Aster Medeity, Kuttisahib Road, Near Kothad Bridge, South Chittoor PO, Cheranalloor, Kochi, Ernakulam, Kerala- 682027. Private own land and ownership of the land is with M/s Aster DM Healthcare (Trivandrum) Pvt. Ltd. Sy. Nos. 442/19, 442/10-1, 442/10, 442/10-2, 440/11-1-2, 440/10-1-1, 440/23-2, 440/23-2, 440/23-1, 440/12-1-2, 442/3, 442/18, 442/2, 442/4, 442/5, 442/1, 442/7-1, 442/8, 442/9, 442/6, 442/13-1, 442/14-1, 439/12, 439/16-1, 439/9-1, 439/10, 439/14, 440/10-1-1, 440/11-1-	PRO	JECT DETAILS
Environmental Clearance for Hospital Complex Project by M/s Aster DM Healthcare (Trivandrum) Pvt. Ltd. Dr. Harish Pillai, Chief Executive Officer, M/s Aster DM Healthcare (Trivandrum) Pvt. Ltd. Dr. Harish Pillai, Chief Executive Officer, M/s Aster DM Healthcare (Trivandrum) Pvt. Ltd. Aster Medeity, Kuttisahib Road, Near Kothad Bridge, South Chittoor PO, Cheranalloor, Kochi, Ernakulam, Kerala- 682027. Private own land and ownership of the land is with M/s Aster DM Healthcare (Trivandrum) Pvt. Ltd. Sy. Nos. 442/19, 442/10-1, 442/10, 442/10-2, 440/11-1-2, 440/10-1-1, 440/23-2, 440/23-2, 440/23-1, 440/12-1-2, 442/3, 442/18, 442/2, 442/4, 442/5, 442/1, 442/7-1, 442/8, 442/9, 442/6, 442/13-1, 442/14-1, 439/12, 439/16-1, 439/9-1, 439/10, 439/14, 440/10-1-1, 440/11-1-		
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Name and address of project proponent. Dr. Harish Pillai, Chief Executive Officer, M/s Aster DM Healthcare (Trivandrum) Pvt. Ltd. Aster Medoify, Kuttisahib Road, Near Kothad Bridge, South Chittoor PO, Cheranalloor, Kochi, Ernakulam, Kerala- 682027. Downer of the land Dr. Harish Pillai, Chief Executive Officer, M/s Aster DM Healthcare (Trivandrum) Pvt. Ltd. Sex Noshi, Ernakulam, Kerala- 682027. Drivate own land and ownership of the land is with M/s Aster DM Healthcare (Trivandrum) Pvt. Ltd. Sex Noshi, 442/19, 442/10-1, 442/10-1, 440/11-1-1, 440/23-1, 440/23-2, 440/12-1-2, 440/12-1-2, 440/12-1-1, 440/23-1, 440/23-2, 440/23-2, 440/12-1-2, 442/3, 442/18, 442/2, 442/4, 442/5, 442/1, 442/7-1, 442/8, 442/9, 442/6, 442/13-1, 440/12-1-2, 440/12-1-1, 440/11-	Name /Title of the project	Project by M/s Aster DM Healthcare
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Village etc. 440/10-1-1, 440/11-1-1, 441/15-3, 441/5-2, 441/15-2, 441/15-2, 441/5-1, 440/7-1-1, 440/7-1-1, 440/12-1-1, 440/22, 440/8-2, 441/5, 441/1, 441/6-1, 441/1-1, 441/2-1-2, 440/9-1, 440/27, 440/25, 440/12-1-4, 440/12-1-3, 440/25-1, 440/22-3, 440/7-1-2, in Attipra Village, Thiruvananthapuram Corporation,		439/12, 439/16-1, 439/9-1, 439/13, 439/15,
Village etc. Village etc. 440/10-1-1, 440/11-1-1, 441/15-3, 441/5-2, 441/5-2, 441/5-2, 441/5-1, 440/22, 440/8-2, 441/5, 441/1, 441/6-1, 441/1-1, 441/2-1-2, 440/9-1, 440/27, 440/25, 440/12-1-4, 440/12-1-3, 440/25-1, 440/22-3, 440/7-1-2, in Attipra Village, Thiruvananthapuram Corporation,	Survey Nos District/Taluk/ and	
441/15-2, 441/2-1-3, 440/7-1-1, 440/12-1-1, 440/12-1-1, 440/9-1-1, 440/9-1-1, 440/22, 440/8-2, 441/5, 441/1, 441/6-1, 441/1-1, 441/2-1-2, 440/9-1, 440/27, 440/25, 440/12-1-4, 440/12-1-3, 440/25-1, 440/22-3, 440/7-1-2, in Attipra Village, Thiruvananthapuram Corporation,		440/10-1-1, 440/11-1-1, 441/15-3, 441/5-2,
441/6-1, 441/1-1, 441/2-1-2, 440/9-1, 440/27, 440/25, 440/12-1-4, 440/12-1-3, 440/25-1, 440/22-3, 440/7-1-2, in Attipra Village, Thiruvananthapuram Corporation,	vinage etc.	441/15-2, 441/5-1, 441/2-1-3, 440/7-1-1, 440/12-
440/25, 440/12-1-4, 440/12-1-3, 440/25-1, 440/22-3, 440/7-1-2, in Attipra Village, Thiruvananthapuram Corporation,		1-1, 440/9-1-1, 440/22, 440/8-2, 441/5, 441/1,
440/22-3, 440/7-1-2, in Attipra Village, Thiruvananthapuram Corporation,		441/6-1, 441/1-1, 441/2-1-2, 440/9-1, 440/27,
Thiruvananthapuram Corporation,		•
Thiruvananthapuram Taluk, Thiruvananthapuram	2.	
		Thiruvananthapuram Taluk, Thiruvananthapuram

	District, Kerala.	
Date of submission of Application	08-07-2017,	
Total Daviltana Anna & Na officera	84,641.46 sq. m.	
Total Built up Area & No. of floors	Ground + 12 flo	ors (annex building)
NTo of avacutus outs	Not applicable.	
No. of apartments	Construction of	hospital buildings project.
Height of the building from the	41 m.	
ground level		
	Latitude (N)	08°31'18.07"N toO8°31'11.73"N
GPS Co-ordinate	Longitude	76°53'08.18"E to 76°53'14.24"E
	(E)	78.36
	Proposed building	ng hospital complex project in plot
	area of about 2.	630 ha. The built-up area of about
	84,641.46 sq.1	n. with proposed600 bedded
Brief description of the project.	hospital building	g with accommodation facility for
Brief description of the project.	240 nurses &	attendants/by-standards to in-
		persons)with other supporting
	infrastructure fa	cilities.
Is it a new Project or	New project	
expansion/modification of an existing		
project?		
Details of the Project Cost	About Rs. 440C	
If CRZ recommendation applicable?	Not applicable	V :
Distance from nearby habitation	32909000	is located at Attpra Village and is
	falling in	corporation limits of
	Thiruvananthapı	**
		cated within the 500 m. radius.
Distance from nearby forest, if	None within the	study area
applicable , , ,		- <u> </u>
Distance from protected area, Wildlife	None within the	study area
Sanctuary, National Park etc.		
Distance from nearby	· ·	ain, abutting the site (W)
streams/rivers/National Highway		N.H.47, about 0.7 km. (E)
Roads and Airport		drum Int. Airport, about 7 km.
	(SE)	
Is ESA applicable? If so, distance	Not applicable	
from ESA limit		
IMP	ACT ON WATE	K.
Details of water requirement per day	About 407 KL/d	
in KLD	L .	daily fresh water req. of about
W	311KLD)	
Water source/sources.	Source :- Stor	ed Rain water (Tanks / pond),

	KWA water supply and treated water from STP.
	The project has provision for rain water storage
Data a facility of the second section of	tanks / pondwhich will be used as source of water
Details of water requirements met	
from water harvesting.	during rainy days (concurrent use) & non-rainy
	days.
	The project has provisions for well water as
What are the impacts of the proposal	standby arrangement during non rainy days. The
What are the impacts of the proposal	ground water abstraction will be of permissible
on the ground water?	limit of yield of the well. Therefore, no impact on
	the ground water.
WAST	E MANAGEMENT
	Provision of STP/TP for treatment of
	sewage/effluent and it's fully recycling for
Explain the facilities for	meeting the water requirement for flushing,
Liquid waste Management	horticulture, boiler& make-up water req. for
	cooling towers attached to HVAC system within
	the site.
	Provision of bio-gas generation plant / bio-bin
Solid Waste Management	system within the project site for disposal of the
	bio-degradable solid waste.
*	Discarded computer parts, monitor, key
	boards etc. constitutes e-waste and this waste
	will be stored in an earmarked area.
T W. A. M.	e-waste will be generated after 4-5 years
E-Waste Management	latency period
	It will be stored in the service block
	building.
	e-waste will be disposed as per e-Waste
	(Management & Handling) Rules, 2016.
Facilities for Sewage	Yes.
Treatment Plant	Provision of STP/ETP for treatment of
	sewage/effluent and it's fully recycling for
	meeting the water requirement for flushing,
	horticulture, boiler& cooling water requirement
	within the site.
1 01	The total domestic water requirement of about
How much of the water requirement	407KLD (which includes daily fresh water
can be met from the recycling of	requirement of about 311 KL). Treated water from
treated waste water? (Facilities for	STP to be used for flushing of toilets, horticulture,
liquid waste treatment)	boiler& cooling requirement.
What is the incremental pollution loa	
from waste water generated from the	KSPCB norms) will be only after providing
A OTH WEIGHT WELLOT BOTTOTAING THOM THE	in or many many or only wreat providing

sto	Iditional aeration in the final treated water orage tank. rovision of roof rain water storage tanks & pond.
P ₁	rovision of roof rain water storage tanks& pond.
How is the storm water from within the site managed?	he excess roof rain water and the surface runoff f the site will be chanalized through garland rain. Excess runoff (if any) from the site will be hanalized to the drain (available in west side of the site). The excess run-off will be discharged only after de-siltation & oil removal.
labourers particularly in the peak period lead to unsanitary conditions around the project site (Justify with proper explanation) t	Tes. The proposed project has provision of labor colony and the domestic sewage will be channelised to the mobile STP for treatment of sewage during the construction period to handle the sewage. Also, it is proposed to have the food waste disposal from labor colony through the microbial bio-bin facility. Also, it is proposed to have a dedicated staff for good house keeping of the construction site premises and the labor colony premises. These measures will ensure a good
What on- site facilities are provided for the collection, treatment & safe disposal of sewage? (Give details of the quantities of wastewater generation, treatment capacities with technology & facilities for recycling and disposal)	The project has provision of mobile STP for the treatment of sewage during construction phase and STP/ETP within the project premises to treat the sewage during operation phase. The technology for the treatment of the sewage is up to tertiary level. The total quantity of sewage generation will be \$26 KL/day. The treated water will be fully recycled for meeting the flushing, horticulture& cooling water requirement. The treated waste water from the proposed STP& ETP during the operation phase of the project will be used for flushing, horticulture, boiler& cooling purposes and for which dual plumbing system is proposed.
TRAFFI	C MANAGEMENT
Sufficiency of parking space (explain) Width of access road	Parking proposed as per KMBR norms. There are two access roads available for the project, one is from about 10 m. wide at north side and another is in east side about 10 m. wide.
ENERG	Y CONSERVATION The total power requirement is estimated to be

XXII _ 4	The initial and The sent of will sent a marriage.
What is the energy consumption	Electricity Board, The project will make provision
assumed per square foot of built-up	of D.G. Sets (1,500 kVA x 3 nos.) as standby
area? How have you tried to	arrangement of electricity. The proposed project
minimize energy consumption?	will have provision of power saving and
	maximum natural light will be provided to
	minimize energy consumption.
	Other measures are:
	> Proposed facility will have water cooled
	chillers in place of air cooled chillers which are
	energy intensive & the treated water available
	from STP would be used as make-up water
	attached to the water cooled chillers.
	Solar Energy operated Photovoltaic lighting for
	partial external areas lighting.
	Savings in energy by the use of LED lamps.
	➤ Building Management System (BMS) through
	sensors for maximizing the energy
	conservation.
	Electrical fixtures & HVAC unit would be of 5
	star series as per Bureau of Energy Efficiency
	(BEE) to achieve reduction in energy
	consumption.
	> Provision for solar panel system (hot water
	purpose)
	> Use of double glass, roof insulation & opaque
	wall.
	Fotal energy saving is expected to be of about
	22%.
What type of, and capacity of power	The project proponent has made provision of D.G.
back-up to you plan to provide?	Sets (1,500 kVA x 3 nos.) as standby arrangement
	of electricity.
What are the characteristics of the	The glass used will be with low emissivity and the
glass you plan to use? Provide	other specifications of the glass will comply with
specifications of its characteristics	the norms as per ECBC.
related to both short wave and long	
wave radiation?	
What passive solar architectural	All the relevant features are incorporated like the
features are being used in the	orientation of the building, shading effect etc.
building? Illustrate the applications	
made in the proposed project	
Does the layout of streets & buildings	Due consideration has been taken for maximum
maximize the potential for solar	use of the solar energy while preparation of layout
energy devices? Have you	plan. The project proponent shall made provision

considered the use of street lighting, for solar panel system (hot water purpose) in emergency lighting and solar hot building block area and solar energy devices will water systems for use in the building be used for street lighting, emergency lighting in complex? Substantiate with details the proposed project. Is the shading effectively used to All the relevant features are incorporated like the reduce cooling/heating loads? What orientation of the building, shading effect etc. principles have been used to maximize the shading of Walls on the East and the West and the Roof? How much energy saving has been effected? Suitable energy optimization will be adopted during the calculation of energy load of the proposed project. The space heating load will be Do the structure use energy-efficient space conditioning, lighting and minimized using passive solar structure and mechanical systems? Provide suitable buildings envelop material. Uses of technical details. Provide details of incandescent lamp and halogen lamps have been avoided and energy efficient LED lamps will be transformers and motor efficiencies. lighting intensity and air-conditioning used for all common area. The diesel generator load assumptions? Are you using sets shall be automatically controlled to optimize CFC and HCFC free chillers? Provide their usage based on the actual load requirements specifications. at any time. Variable frequency drive systems would be adopted for the lifts, etc to maximize the energy saving. What are the likely effects of the More open spaces are proposed within the site to creation of any heat islands. The roads and building activity in altering the microclimates? Provide a self assessment parking spaces would be with concrete slabs on the likely impacts of the proposed intermittent with grass on surrounding. construction on creation of heat island & inversion effects? The building construction material namely bricks, concrete and steel are being used in the construction. U-factor, also known as Thermal Transmittance, is heat transmission in unit time What are the thermal characteristics of through unit area of a material or construction and the building envelope? (a) roof (b) the boundary air films, induced by unit external walls; and (c) fenestration? temperature difference between the environments Give details of the materials used. on each side. The glass used will be with low emissivity and the other specifications of the glass will comply with the norms as per ECBC.

What is the rate of air non-

conventional energy technologies are

The use of non-conventional source of energy in

the proposed construction project are as follows:

utilized in the overall energy Solar Water Heater: The proposed project would install solar panels for consumption? Provide details of the renewable energy technologies used. hot water requirements in the building block and hence the dependency on electricity for hot water be minimized. gen eration can This conserve lot of coal which produces the electricity through public supply and also load on D.G. sets also would be reduced and there by conserve diesel. Solar Street Light: -It is also suggested to use solar cell powered street lights within the proposed project site for conservation of electricity. Use of LED Lamps: -The project proponent would use LED Lamp which conserve less electricity. Solar water heating system for the hot water Details of renewable energy (nongeneration and solar power operated street lights. conventional) used. IMPACT ON AIR ENVIRONMENT The dust generation during construction phase will be controlled by enclosures at appropriate locations and also by sprinkling of water for What are the mitigation measures on suppression of dust. The gas/smoke generation generation of dust, smoke, odours, expected is from D.G. sets only and the gases will fumes or hazardous gases be vented out through stack of appropriate height. The internal road width will be as per KMBR for the smooth vehicular movement. In the eastern side, there is entry (6 m. wide) and exits (6 m. width). Also in the north west side there is 12 m. wide entry/exit provided for the proposed hospital Details of internal traffic management project. of the site. The access road to the project site is about 10 m. wide at north side & 10 m. wide at east side which is connected to N.H. 47 Bypass Road which is located at within 700 m. from the site The proposed project is a hospital building Details of noise from traffic, machines construction project and there would be some and vibrator and mitigation measures increase in noise and vibration due to the vehicular movement within the project site. The

r		project has provision of large area for the parking
ļ		for the vehicles and the parking arrangement
		which is planned, that there would be easy
		movement of vehicles within the project area and
		smooth movement is provided for the vehicles to
١		reduce the traffic congestion.
t	·	The ambient air quality of the site carried out
١	Air quality monitoring in detail	through an accredited laboratory which is well
		within the standard limit.
	·	No shortage of parking space.
		Parking provisions would be made as per the
1		KMBR requirements.
	Will the proposal create shortage of	The parking arrangement will be made at Ground
ļ	parking space for vehicles? Furnish	floor level and MLCP block within the site
	details of the present level of transport	In the eastern side, there is entry (6 m. wide) and
	infrastructure and measures proposed	exits (6 m. width). Also in the north west side
	for improvement including the traffic	there is 12 m. wide entry/exit provided for the
	management at the entry & exit to the	proposed hospital project.
	project site.	The access road to the project site are from about
		10 m. wide at north side & 10 m. wide at east side
		which is connected to N.H. 47 Byepass Road
		which is located at within 700 m. from the site.
		The conceptual plan clearly shows the internal
ļ	Provide details of the movement	traffic management with entry and exit to the
Ì	patterns with internal roads, bicycles	proposed project site, all internal roads with width,
	tracks, Pedestrian pathways, footpaths	pedestrian path ways etc. Further provision of
	etc., with areas under each category	ramps are proposed for the easy access to the
		building for physically challenged persons.
. !		The proposed project is a hospital complexproject
		and there would be some increase in noise and
		vibration due to the vehicular movement within
	Will there be significant increase in	the project site. The project has provision of large
	traffic noise & vibrations? Give	area for the parking for the vehicles and the
	details of the sources and the	parking arrangement which is planned, that there
	measures proposed for mitigation of	would be easy movement of vehicles within the
	the above.	project area and smooth movement is provided for
		the vehicles to reduce the traffic congestion.
	What will be impact of DG sets &	The D.G. sets which would be used for the project
	other equipments on noise levels &	will be with sound proof acoustic enclosures and
	vibration in & ambient air quality	hence there will be no impact to the surroundings.
	around the project site? Provide	The D.G. sets would be attached with proper anti-
	details	vibration pads to reduce any vibration impact to
		_1

the site surrounding.

The flue gases from the D.G. sets will be vented out through stack of appropriate height as per C.P.C.B. norms to reduce the impacts on air quality around the project site. The ambient noise level of the site is carried out through an accredited laboratory and the ambient noise level is well within the standard limit.

IMPACT ON BIODIVERSITY AND ECO RESTORATION PROGRAMMES

Will the project involve extensive clearing or modification of vegetation (Provide details)

There are some trees species, shrubs, herbs etc. existing at site as part of floral ecology. Most of the tree will be cut for development of the proposed site. As part of the eco-restoration, large number of saplings of native species would be planted. Due to the eco restoration, the impact to floral and faunal ecology will be short term.

What ate the measures proposed to minimize the likely impact on vegetation (details of proposal for tree plantation/landscaping)

Due to the proposed development, most of the trees will be cut for development of the proposed site. As part of the eco restoration, large number of saplings of native species would be planted. Due to the eco restoration, the impact to floral and faunal ecology will be short term.

Is there any displacement of fauna — both terrestrial and aquatic. — If so what are the mitigation measures?

Presence of any endangered species or red listed category (in detail)

There will be no displacement of fauna due to the construction of the proposed project.

There is no presence of endangered species or red listed category.

SOCIO- ECONOMIC ASPECTS

Will the proposal result in any change to the demographic structure of local population? Provide the details. The proposed project is a hospital campus. The proposed building, during operation phase on full the maximum the project, occupancy of 5,800 population expected persons (fixed/floating) and hence there will be influx of people (fixed) to the project area and surrounding. Some of the staff in the propose hospital building may reside within the project vicinity and hence there will be increase in demographic structure.

Give details of the existing social infrastructure around the proposed project

There are several residential buildings, schools, colleges, religious places, commercial and, hospitals, Govt. and private offices which are

located within the project vicinity. The vicinity showing the surrounding details of the proposed project is provided. The proposed project is a hospital campus. The project would not cause any adverse effects on local communities, disturbance to sacred sites or other cultural values. The proposed project is Will the project cause adverse effects ahospital project and thereby the living index of on local communities, disturbances to sacred sites or other cultural values? the people around the project site will definitely improve. Also there will be various ancillary What are the safeguards proposed? activities like convenient shops, transport facilities etc. attached to the project which will benefit the local people and change their living condition. Out of the total plot area % of spaces Recreational grounds (5% of land area) and provided for i)Recreational facility Parking facilities (47% of land area) & Open space (52% of land area) ii)Parking iii)Open Spaces

BUILDING MATERIALS

May involve the use of building materials with high—embodied energy. Are the construction materials produced with energy efficient process? (Give details of energy conservation measures in the selection of building materials and their energy efficiency)

The proposed hospital buildings will be of centrally air conditioned building (except some portion), the selection of building materials plays a major role in the energy consumption. The proposed project will make all attempts to use to avoid building materials with high embodied energy. Cement blocks & hollow blocks will be replaced with country made red bricks. Further, the river sand will be replaced by manufactured sand from stone crushers. The glass used will be low emissivity and having U value as per ECBC norms.

Transport and handling of materials during construction may result in pollution, noise & public nuisance. What measures are taken to minimize the impacts?

All measures are taken to minimize the impacts within the site & surroundings.

All vehicles which bring construction material to the site would possess Pollution Under Control Certificates (PUC). All vehicles would be of close body to avoid spread of dust from the loose materials, and vehicles which bring sand, stone dust, etc. would ensure that the above mentioned material are properly wetted during transportation to avoid dust generation. Pucca Road to be made in the construction site for the vehicle movement so that the dust generation due to the vehicular movement within the project site can be minimized. Stacking of construction material shall be confined to the project site only. All the D.G. Sets would have attached with Acoustic Enclosure for the sound pollution control and all sound generating construction activity to be minimized. Further barricading of the site with GI sheets of 10 ft height in the side abutting the public road during construction phase.

Are recycled materials used in roads and structures? State the extent of savings achieved?

The plastic (non-biodegradable solid waste) will be used along with coal tar during the construction of internal roads. This will increase the life of roads.

Solid waste

- The Solid Waste Management Rules, 2016 will be followed in the Solid Waste Disposal Mechanism at the site during operation phase.
- Collection & segregation within the site (biodegradable waste (green bins), non-biodegradable waste (blue bins) and domestic hazardous waste (yellow bins).
- The recyclable waste like packaging material, paper etc. would be sold through vendors.
- The Bio-degradable waste would be disposed through the bio-gas generation unit/bio bin system to be installed within the site.
- The bio-gas generated will be utilized in the kitchen/canteen area and the manure generated will be utilized for green area development within the premises.

The domestic hazardous waste which includes discarded paint drums, pesticide cans, CFL bulbs, tube lights, expired medicines, broken mercury thermometers, used batteries, used needles and syringes and contaminated gauge etc. generated at the household level will be collected in yellow bins and to be handed over to authorized waste pickers or waste collectors.

Bio-medical waste

Bio-medical waste like infectious beddings, cotton, swabs, used syringes, discarded

Give details of the methods of collection, segregation & disposal of the garbage generated during the operation phases of the project.

- medicines, etc. from the hospital would be generated Bio-medical waste Management & Handling Rules, 2016 will be followed.
- > Collection & segregation at source by providing appropriate colour coded bins / containers as per the colour coding provided in the Bio-Medical Waste (Management & Handling) Rules.
- The bio-medical waste from the hospital outsourced through a Kerala State Pollution Control Board authorized agency (M/s Indian Medical Association Goes Eco Friendly, IMAGE).

RISK MANAGEMENT

Risk hazard from fire - List of equipments proposed for Fire Fighting Measures:-

- A. The major equipments proposed for Fire Fighting Measures are Main Hydrant Pump, Sprinkler Pump, Diesel Engine Pump, Jockey Pump.
- B. Capacity of Fire Water Storage Tanks & Number:-

It is proposed to have Fire Water Storage Tanappropriate capacity of overhead tank for fire fighting provided at the tower.

C. Fire Detecting Equipments: -

The Fire Detecting Equipments would be as per BIS and NBC norms.

D. Other Fire Fighting Measures; -

The other Fire Fighting Measures proposed includes, an Emergency Control Room, Separate Fire exit during emergency, all rooms with Fire Detector / Smoke Detector, Fire Extinguishes at each entry and exit point on each floor, (5 Kg, 10 Kg and 9 Ltr. capacity), Public address system etc. The Fire Fighting Measures are backed by Electrical supply from D.G. sets in case of emergency.

The nearest fire station is at Chacka Fire Station which is about 6.5 km. away from the project site.

Yes, all precautionary measures in the storage & handling of HSD will be followed.

Are there sufficient measures proposed for risk hazards in case of emergency such as accident at the site during construction & post construction phase.

Storage of

explosives/hazardous

substance in detail	
What precautions & safety measures	Details already provided above.
are proposed against fire hazards?	
Furnish details of emergency plans	기보면 소방한 맛도 뭐 같이 되는 것들이 하셨다.
Litigation/court cases if any	No any litigation/court case pending.
<u> </u>	AESTHETICS
Will the proposed constructions in any	/ No.
way result in the obstruction of a	There is no scenic beauty near the project site
view, scenic amenity or landscapes?	(except a drain in the west side). The proposed
Are these considerations taken into	project in no way works as an obstruction of view.
account by the proponents?	
	The project site is within the Corporation limit
	area. The surrounding area is individua
숲으 발생으로 시하다 하는 그런다.	houses/residential buildings with mixed
Will them be any advanta Canada	plantations, schools, colleges, religious places
Will there be any adverse impacts	hospitals, commercial buildings. Govt. and privat
from new constructions on the	offices. There are two access road available to the
existing structures? What are	project site in east side & north side. Also, in the
considerations taken into account?	west direction, there is drain which will not due to
	the proposed development. There will be no
	adverse impacts due to the development of the
	proposed project.
	The proposed project would be constructed i
	conformity with the Kerala Municipality Buildin
A Committee of the Comm	Rules (KMBR).
	As per seismic classification, the project site fall
	in Zone-III. No reported cloudburst in the area
What are the second	Also, there is no hilly area around the project site
Whether there are any local	there is no chance of landslide Structural design
considerations of urban form & urban	aspects as per the seismic codes – IS 1893 (2002)
design influencing the design criteria	IS 13920 (1993) and IS 456 (2000) as applicable
They may be explicitly spelt out.	would be incorporated in our project.
	Also, there is a drain flowing in the west side o
	the property. HFL of the water body will b
医基子氏病 加州东南部 高级电流	incorporated for the proposed development of th
	site.
	JIWI
Age there envise there a	There is no remain of aviation as of an
Are there any anthropological or	There is no report of existence of an
archaeological sites or artefacts	anthropological or archaeological site nearby th
nearby? State if any other significant	
features in the vicinity of the propose	$\mathbf{d} \mid$ Corporation limits of Thiruvananthapuram. Th

site have been considered	vicinity map showing the site & surrounding area is provided.
	The CSR activities will be carried out for the
Details of CSR activity and the	welfare of local community in consultation with
armount set apart per year	the Thiruvananthapuram Corporation.
Details - CNATDET	M/s Environmental Engineers & Consultants Pvt.
Details of NABET approved EIA Consultant engaged-Their name,	Ltd.
address and accreditation details	(NABET Accredited Consultant Organization)
acturess and accreditation details	Head Office: - A1-198, Janak Puri, New Delhi.
	Branch Office: - C-306, Kanchanjunga
	Apartments,
不可以的 电阻电影中间显示电影	Palarivattom P.O., Kochi, Kerafa.
Details of Authorized Signatory and	Dr. Harish Pillai, Chief Executive Officer,
address for correspondence	M/s Aster DM Healthcare (Trivandrum) Pvt. Ltd.
	Aster Medcity, Kuttisahib Road,
	Near Kothad Bridge, South Chittoor PO,
	Cheranalloor, Kochi, Ernakulam, Kerala- 682027.
SUMMAR	RY AND CONCLUSION
	Try desired to a file and the
	The proposed project is construction of hospital complex buildings and the total implementation /
Overall justification for	completion period for the construction is about 36
implementation of the project.	months from the start of the construction.
	inolitis from the start of the construction.
	It is predicted that socio-economic impact due to
	this project will positively increase the chance of
	more employment opportunities for local
	inhabitants. There are no Resettlement and
	Rehabilitation issues involved in this project. The
Explanation of how adverse impact	project infrastructures will be of use to people of
have been mitigated.	the area. The revenue of the State Govt. will be
have been minigated,	definitely increase due to the proposed activity.
	The entire project area is devoid of any endemic /
	endangered flora and fauna. As part of the eco
	restoration with native species to a maximum
	possible extent. Also, rain water tanks / pond are
	proposed for storage of rain water and for its
	subsequent use so as to conserve fresh water

consumption. The municipal solid waste, biomedical waste &e-waste will be handled and disposed as per norms. Thus the proposed project is not likely to affect the environment or adjacent ecosystem adversely and will ensure a sustainable development.

2. The proposal was placed in the 80th meeting of SEAC held on 11th October 2017. The proponent did not turn up for presenting the details. The Committee decided to defer the item.

The proposal was again placed in the 81st meeting of SEAC held on 30th & 31st October 2017 and decided to defer the item for field inspection. The Committee also directed the proponent to submit the following additional documents/details:

- 1) Car parking provision should be enhanced and reworked
- 2) CSR commitment should be revised, preferably indicating his number of individuals who can be given free medical treatment for serious ailments.

Accordingly inspection was conducted by a Sub committee consisting of Sri Gopinathan V, Chairman, Sri S Ajayakumar, Sri John Mathai and Sri Sreekumaran Nair on 4/11/2017. The inspection report is as follows;

The proposal is for a new hospital. The access to the site is from NH bypass and has about 10 m width. A stream, Thettiyan, is passing by the western side of the site flowing down from north collecting storm water from a catchment of nearly 40 sq.km that includes the thickly built up areas of Techno Park and beyond up to Pothencode. The access road terminates near the site near the bank of the stream passing nearby. No basement is proposed. The proponent is asked to.

- a. Access road shall have minimum width of 10 m all along.
- b. Submit a revised site plan showing enhanced parking and internal road all around the building
- c. Plinth area should be raised to at least 60 cm. Whether additional earth is required to fill the land should be reported
- d. Equal width of land shall be left along the banks of the stream flowing along the north side of the site. River banks shall be protected and effluents proposed let out into stream shall be as per the standards of Kerala PCB. The stream may be required to be widened to contain the storm water originating up stream. Therefore proponents shall provide an affidavit to the effect that adequate land shall be surrendered in case widening of stream is necessary taking land equally from both sides.
- e. Considering its location on the flood plain, sources of water shall be developed within the plot and the yield reported.

- 3. The proposal was placed in the 82nd meeting of SEAC held on 25th November 2017 and directed the proponent to submit the additional documents/details as suggested by the inspection team.
- 4. The proponent has submitted the additional documents sought by SEAC. The proposal was placed in the 84th SEAC meeting held on 22nd & 23nd January 2018. The Committee appraised the proposal based on Form 1, Form I A, field inspection report of the Sub Committee and all other documents submitted with the proposal. The Committee verified the additional documents submitted by the proponent and found satisfactory. The Committee decided to Recommend for issuance of EC subject to general conditions in addition to the following specific conditions.
 - a. Access road shall have a minimum width of 10 m all along.
 - b. Plinth area should be raised to at least 60 cm.
 - c. Equal width of land shall be left along the banks of the stream flowing along the north side of the site. River banks shall be projected and effluents proposed to be let out into stream shall be as per the standards of Kerala PCB. The stream may be required to be widened to contain the storm water originating up stream. Therefore proponents shall provide an affidavit to the effect that adequate land shall be surrendered in case of widening of stream is found necessary in future.
 - d. Considering its location being on the Head plain, sources of water can be developed within the plot itself.
 - e. RWH facilities planned shall have a combined storage of over 2000 KL.

Towards community welfare a commitment from the proponent for providing free medical care, in consultation with the local body, for a suitable number of chromically ill patients from BPL families may be obtained by the SEIAA.

- 5. The proposal was placed in the 80th meeting of SEIAA held on 16.02.2018. Authority accepted the recommendation of SEAC and decided to issue EC subject to general conditions in addition to the above specific conditions as suggested by SEAC. 2% of the total project cost should be set apart for CSR activities for taking up welfare activities of the local community in consultation with the local body. A notarised affidavit for the commitment of CSR activities and also agreeing all the above specific and general conditions should be submitted before the issuance of EC.
- 6. The proponent has submitted the affidavit read as reference (7) above and stating that all the specific and general conditions shall be strictly implemented.

7. Environmental Clearance as per the EIA notification 2006 is hereby granted to the Proposed Hospital Complex Project by Dr.Harish Pillai, Chief Executive Officer; M/s Aster DM Healthcare Pvt. Ltd in Sy. Nos. 442/19, 442/10-1, 442/10, 442/10-2, 440/11-1-2, 440/10-1-1, 441/2-1-1, 440/11-1-1, 440/23-1, 440/22-4, 440/23-2, 440/22-1, 440/12-1-2, 442/3, 442/18, 442/2, 442/4, 442/5, 442/1, 442/7-1, 442/8, 442/9, 442/6, 442/13-1, 442/14-1, 439/12, 439/16-1, 439/9-1, 439/13, 439/15, 439/11, 439/7-3-1, 439/6-1, 439/10, 439/14, 440/10-1-1, 440/11-1-1, 441/15-3, 441/5-2, 441/15-2, 441/5-1, 441/2-1-3, 440/7-1-1, 440/9-1-1, 440/22, 440/8-2, 441/5, 441/1, 441/6-1, 441/1-1, 441/2-1-2, 440/9-1, 440/27, 440/25, 440/12-1-4, 440/12-1-3, 440/25-1, 440/22-3, 440/7-1-2, of Attipra Village, Thiruvananthapuram Taluk, Thiruvanathapuram District, Kerala subject to the specific conditions mentioned in para 4 & 5 above, the usual general conditions for projects other than mining appended hereto and the following green conditions should be strictly adhered to.

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.
- 8. The 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 as submitted. The assurances and clarifications given by the proponent in the application and related documents will be deemed to be part of these proceedings as conditions as undertaken by the proponent, as if incorporated herein.

- 9. Validity of the Environmental Clearance will be seven 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.
- 10. Compliance of 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.
 - i. Necessary assistance for entry and inspection by the concerned officials and staff should be provided by the project proponents.
 - ii. Instances of violation if any shall be reported to the District Collector, Thiruvananthapuram to take legal action under the Environment (Protection) Act 1986.
 - iii. The given address for correspondence with the authorized signatory of the project is, Dr.Harish Pillai, Chief Executive Officer, Ms Aster DM Healthcare Pvt. Ltd., Aster Medicity, Kuttisahih Road, Near Kothad Bridge, South Chittoor P.O, Cheranalloor, Kochi, Ernakulain 682027

Sd/-

P.H. KURIAN.I.A.S, Member Secretary (SEIAA)

To.

Dr. Harish Pillai,
Chief Executive Officer,
M/s Aster DM Healthcare Pvt. Ltd.,
Aster Medicity, Kuttisahib Road,
Near Kothad Bridge,
South Chittoor P.O, Cheranalloor,
Kochi, Ernakulam – 682027

Copy to:

- MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034
- 2. The Additional Chief Secretary to Government, Environment Department
- 3. The District Collector, Thiruvananthapuram
- 4. The District Town Planner, Thiruvananthapuram
- 5. The Tahsildhar, Thiruvananthapuram Taluk, Thiruvananthapuram District
- 6. The Member Secretary, Kerala State Pollution Control Board
- 7. The Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm-24
- 8. The Secretary, Municipal Corporation of Thiruvanathapuram, Vikas Bhavan P.O, Thiruvanathapuram-695033
- 9. Chairman, SEIAA, Kerala
- 10. Website
- 11. Stock file
- 12. O/c

Forwarded/By Order

Administrator, SEIAA

GENERAL CONDITIONS (for projects other than mining)

Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified elsewhere.

Environment Monitoring Cell as agreed under the affidavit filed by the proponent should

be formed and made functional.

Suitable avenue trees should be planted along either side of the tarred road and open (iii) parking areas, if any, inclusive of approach road and internal roads.

The project shall incorporate devices for solar energy generation and utilization to the (iv) maximum possible extent with the possibility of contributing the same to the national grid in future.

Safety measures should be implemented as per the Fire and Safety Regulations.

STP should be installed and made functional as per KSPCB guidelines including that for (vi)solid waste management.

The conditions specified in the Companies Act, 2013 should be observed for Corporate (vii) Social Responsibility.

The proponent should plant trees at least 5 times of the loss that has been occurred while (viii) clearing the land for the project.

Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be (ix) obtained before initiating activity.

All other statutory clearances should be obtained, as applicable, by project proponents (x) from the respective competent authorities including that for blasting and storage of explosives.

In the case of any change(s) in the scope of the project, the project would require a fresh (xi)

appraisal by this Authority.

(xv):

- The Authority reserves the right to add additional safeguard measures subsequently, if (xii) 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.
- The stipulations by Statutory Authorities under different Acts and Notifications should be (xiii) 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.

The environmental safeguards contained in the EIA Report should be implemented in (xiv) letter and spirit.

Provision should be made for supply of kerosene or cooking gas and pressure cooker to

the labourers during construction phase.

Officials from the Regional of MOEF, Banglore who would be monitoring the (xvi) implementation of environmental safeguards should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF should be forwarded to the CCF, Regional Office of MOEF, Bangalore.

These stipulations would be enforces among others under the provisions of Water (xyii) (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control Pollution) at 1981, the Environment (Protection) Act, 1986, the Public Liability

(Insurance) Act, 1991 and EIA Notification, 2006.

- (xviii) 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.
- (xix) Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Act, 1997.
- 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 may also be seen on the website of the Authority at www.seiaakerala.org. 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.
- (xxi) A copy of the clearance letter shall be sent by the proponent to concerned GramaPanchayat/ District Panchayat/ 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.
- (xxii) 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.
- (xxiii) 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.
- (xxiv) 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.

SPECIFIC CONDITIONS

I.Construction Phase

- i. "Consent for Establishment" shall be obtained from Kerala State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.
- ii. All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
- iii. A First Aid Room will be provided in the project both during construction and operation of the project.
- iv. Adequate drinking water and sanitary facilities should be provided for construction workers at the site, Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
- v. All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.

Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval. of competent authority.

Soil and ground water samples will be tested to ascertain that there is no threat to vii.

ground water quality by leaching of heavy metals and other toxic contaminants.

Construction spoils, including bituminous material and other hazardous materials, viii. must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.

Any hazardous waste generated during construction phase, should be disposed off as ix. per applicable rules and norms with necessary approval of the Kerala State Pollution

Control Board.

The diesel generator sets to be during construction phase should be 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 хi.

required, clearance from Chief Controller of Explosives shall be taken.

Vehicles hired for bringing construction material to the site should be in good xii. 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.

xvii.

Ambient noise levels should conform to residential standards both during day and xiii. night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/KSPCB.

Fly ash should be used as building material in construction as per the provisions of xiv. Fly Ash Notification of September, 1999 and amended as on 27th August 2003. (The

above condition is applicable Power Stations).

Ready mixed concrete must be used in building construction. XV.

Storm water control and its re-use per CGWB and BIS standards for various xvi. applications.

Water demand during construction should be reduced by use of pre-mixed concrete,

curing agents and other best practices referred.

Permission to draw ground shall be obtained from the Computer Authority prior to xviii. construction/operation of the project.

Separation of grey and black water should be done by the use of dual plumbing line

for separation of grey and black water.

Fixtures for showers, toilet flushing and drinking should be of low flow either by use XX. of aerators or pressure reducing devices or sensor based control.

Use of glass may be reduced by upto 40% to reduce the electricity consumption and xxi. load on airconditioning. If necessary, use high quality double glass with special reflective coating in windows.

Roof should meet prespective requirement as per Energy Conservation Building Code xxii. by using appropriate thermal insulation material to fulfil requirement.

Opaque wall should meet perspective requirement as per energy Conservation xxiii. Building Code which is proposed to be mandatory for all airconditioned spaces while it is aspirational for non-airconditioned spaces by use of appropriate thermal insulation material to fulfil requirement.

- xxiv. 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 lightening etc.
- Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.
- xxvi. Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the protect proponent if it was found that construction of the project has been started without obtaining environmental clearance.

II. Operation Phase

- i. The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation Treated affluent emanating from STP shall be recycled / reused to the maximum extent possible. Treatment of 100% grey water by decentralised treatment should be done. Discharge of unused treated affluent shall conform to the norms and standards of the Kerala State Pollution Control Board. Necessary measures should be made to mitigate the adour problem from STP.
- ii. 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.
- iii. 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. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Kerala State pollution Control Board.
- iv. 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.
- v. The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
- vi. Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.
- vii. Rain water harvesting for roof run-off and surface run-off, as plan submitted 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 mts above the highest ground water table.
- viii. The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
- ix. Traffic congestion near the entry and exit points from the roads adjoining the purposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- x. A Report on the energy conservation measures confirming to energy conservation norms finalise 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.

- xi. Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed of f/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.
- xii. Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
- xiii. The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.

III Post Operational Phase

Environmental Monitoring Committee with defined functions and responsibility should foresee post operational environmental problems e.g. 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. solve the problem immediately with mitigation measures

For Member Secretary, SEIAA