



सत्यमेव जयते

Validity expires on 21.12.2024

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 Hotel & Convention Centre Project in Sy. Nos. 271, 272, 282, 283, 285, 286, 287, 288, 290, 291/1A, 291/1B, 321/2, 364, 367/2, 368, 369/2, 370, 372/1, 488/1A1A, 488/2 at Valayanad Village, Kozhikode Taluk, Kozhikode District, Kerala of Mr. Packer Koya P.P , Director, M/s Lulu Convention Center Calicut Pvt. Ltd. - Granted-Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KERALA

No.1116/EC/SEIAA/KL/2017

dated, Thiruvananthapuram 22.12.2017

- Ref:
1. Application dated 23-11-2016 from Mr. Packer Koya P.P , Director, M/s Lulu Convention Center Calicut Pvt. Ltd.
 2. Minutes of the 73rd meeting of SEAC held on 30th & 31st May, 2017.
 3. Minutes of the 75th meeting of SEAC held on 29th & 30th June, 2017.
 4. Minutes of the 81st meeting of SEAC held on 30th & 31st October, 2017.
 5. Minutes of the 76th meeting of SEIAA held on 16.11.2017.
 6. Affidavit dated 05.12.2017 from Mr. Packer Koya P.P , Director, M/s Lulu Convention Center Calicut Pvt. Ltd.

ENVIRONMENTAL CLEARANCE NO. 99/2017

Mr. Packer Koya P.P , Director, M/s Lulu Convention Center Calicut Pvt. Ltd, 24/826A, P.O. Mankavu, P.B. No. 1240, Calicut, Kerala-673007, vide his application received online, has sought Environmental Clearance under EIA Notification, 2006 for the proposed Hotel & Convention Centre Project in survey Nos. 271, 272, 282, 283, 285, 286, 287, 288, 290, 291/1A, 291/1B, 321/2, 364, 367/2, 368, 369/2, 370, 372/1, 488/1A1A, 488/2, at Valayanad Village, Kozhikode Taluk, Kozhikode 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.

The proposed project site falls within Latitude 11°14'27.65"N to 11°14'24.38"N to Longitude 75°48'15.03"E to 75°48'04.69"E. The height of the proposed building is 51.80 m and the total plot area of the proposed project is 3.856 Ha. The total built-up area of about

29,572.88 sq.m. with supporting infrastructure facilities. The water consumption during construction phase is for meeting the domestic requirement is about 9 KLD. The source of water will be from stored rain water, well water & KWA supply for drinking purposes. The total daily domestic water consumption for the proposed project is 127 KLD. The total power requirement is 2,50,000 kWh/month which is sourced through KSEB. The proponent has stated that there is no litigation pending against the project and /or land in which the project is proposed to be set up. The total cost of the project is Rs. 125.275 Crores.

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

BASIC INFORMATION OF BUILDING PROJECT

(To be filled in by the Project Proponent)

PART A

PROJECT DETAILS		
File No.	1116/EC/SEIAA/KL/2017	
Name /Title of the project	Environmental Clearance for Proposed Hotel & Convention Centre project to be developed M/s Lulu Convention Centre Calicut (Pvt.) Ltd.	
Name and address of project proponent.	Mr. Packer Koya P.P. (Director) M/s Lulu Convention Center Calicut (Pvt.) Ltd. 24/826A, P.O. Mankavu, P.B. No. 1240, Calicut, Kerala-673007.	
Owner of the land	Private own land & land ownership is in favour of M/s Lulu Convention Centre Calicut (Pvt.) Ltd.	
Survey Nos. District/Taluk/ and Village etc.	Sy. Nos. 271, 272, 282, 283, 285, 286, 287, 288, 290, 291/1A, 291/1B, 321/2, 364, 367/2, 368, 369/2, 370, 372/1, 488/1A1A, 488/2, Valayanad Village, Kozhikode Municipal Corporation, Kozhikode Taluk & District, Kerala.	
Category/Sub-Category and Schedule	Category B 8(a)	
Date of submission of Application	25-11-2016	
Total Built up Area & No. of floors	29,572.88 sq.m Ground + 10 floors	
No. of apartments	Not applicable. Proposed Hotel & Convention Centre Building project.	
Height of the building from the ground level	51.80 m.	
GPS Co-ordinate	Latitude (N)	11°14'27.65"N to 11°14'24.38"N
	Longitude (E)	75°48'15.03"E to 75°48'04.69"E
Brief description of the project.	Proposed construction of Hotel cum Convention Centre building project in plot area of about 3.856 ha. The total	

	built-up area of about 29,572.88 sq.m. The facilities proposed of 105 rooms in hotel, 214 seats in restaurant & 2,000 seats in convention centre with other supporting infrastructure facilities.
Is it a new Project or expansion / modification of an existing project?	New project
Details of the Project Cost	About Rs. 125.275 Crores
If CRZ recommendation applicable?	Not applicable
Distance from nearby habitation	The project site is in Valayanad Village and is falling in Kozhikode Municipal Corporation limits and several houses located within the 500 m. radius.
Distance from nearby forest, if applicable	None within the study area
Distance from protected area, Wildlife Sanctuary, National Park etc.	None within the study area
Distance from nearby streams/rivers/ National Highway Roads and Airport	Water body - <i>Drain</i> , abutting the site (N & W) Highway Road - Mini Bye-pass Road, abutting the site (E) Airport - Calicut Int. Airport, Karipur about 25 km. (SE)
Is ESA applicable? If so, distance from ESA limit	Not applicable
IMPACT ON WATER	
Details of water requirement per day in KLD	About 127 KL/day (which includes daily fresh water req. of about 97 KLD)
Water source/sources.	Source :- Stored Rain water (Tanks), KWA water supply and treated water from STP.
Details of water requirements met from water harvesting.	The project has provision for rain water storage tanks which will be used as source of water during rainy days (concurrent use) & non-rainy days.
What are the impacts of the proposal on the ground water?	The project has provisions for well waters supply as standby arrangement during non rainy days. The ground water abstraction will be of permissible limit of yield of the well. Therefore, no impact on the ground water.
WASTE MANAGEMENT	
Explain the facilities for Liquid waste Management	Provision of STP for treatment of sewage and it's fully recycling for meeting the water requirement for flushing, horticulture & make-up water req. for cooling towers attached to HVAC system within the site.
Solid Waste Management	Provision of bio-gas generation plant / bio-bin system within the project site for disposal of the bio-degradable

	solid waste
E-Waste Management	<ul style="list-style-type: none"> ➤ Discarded computer parts, monitor, key boards etc. constitutes e-waste and this waste will be stored in an earmarked area. ➤ e-waste will be generated after 4-5 years latency period ➤ It will be stored in separate room. ➤ e-waste will be disposed as per e-Waste (Management & Handling) Rules, 2016.
Facilities for Sewage Treatment Plant	<p>Yes.</p> <p>Provision of STP for treatment of sewage and it's fully recycling for meeting the water requirement for flushing, horticulture & cooling water requirement within the site.</p>
How much of the water requirement can be met from the recycling of treated waste water? (Facilities for liquid waste treatment)	The total domestic water requirement of about 127 KLD (which includes daily fresh water requirement of about 97 KL). Treated water from STP to be used for flushing of toilets, horticulture & cooling requirement.
What is the incremental pollution load from waste water generated from the proposed activities?	Disposal of excess treated water from STP (with BOD level as per KSPCB norms) will be only after providing additional aeration in the final treated water storage tank.
How is the storm water from within the site managed?	<p>The drain which is located in the western side will be protected during the construction phase.</p> <p>Provision of roof rain water storage tanks. The excess roof rain water and the surface runoff of the site will be chenalized through garland drain and excess runoff (if any) from the site will be chenalized to the drain available near to the site. The excess run-off will be discharged only after de-siltation & oil removal.</p>
Will the deployment of construction labourers particularly in the peak period lead to unsanitary conditions around the project site (Justify with proper explanation)	Yes, 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 hygienic conditions around the labor colony.
What on- site facilities are provided for the collection, treatment & safe disposal of sewage ? (Give details of the	The project has provision of mobile STP for the treatment of sewage during construction phase and STP of about 123 KL capacity within the project premises to treat the sewage during operation phase. The technology

quantities of wastewater generation, treatment capacities with technology & facilities for recycling and disposal)	for the treatment of the sewage is up to tertiary level. The total quantity of sewage generation will be 102 KL/day. The treated water will be fully recycled for meeting the flushing, horticulture & cooling water requirement.
Give details of dual plumbing system if treated waste is used for flushing of toilets or any other use.	The treated waste water from the proposed Sewage Treatment Plant during the operation phase of the project will be used for flushing, horticulture & cooling purposes and for which dual plumbing system is proposed.
TRAFFIC MANAGEMENT	
Sufficiency of parking space (explain)	Parking required as per KMBR = 306 Cars + 429 T.W. Parking Proposed = 482 Cars + 429 T.W.
Width of access road	The access road to the project site is from 13 m. wide (avg. width) <i>Mini Bye-pass Road (Kozhikode-Thrissur)</i> abutting the site at north side and connected to entire city.
ENERGY CONSERVATION	
Details of power requirement and source of supply, backup source etc. What is the energy consumption assumed per square foot of built-up area? How have you tried to minimize energy consumption?	<p>The total power requirement is estimated to be about 2,50,000 kWh/month and will be from by Kerala State Electricity Board. The project will make provision of D.G. Sets (500 kVA x 1 no. + 1000 kVA x 2 nos.) as standby arrangement of electricity. The proposed project will have provision of power saving and maximum natural light will be provided to minimize energy consumption.</p> <p>Other measures are:</p> <ul style="list-style-type: none"> ➤ 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. ➤ Thermal insulation by styro-foam in the roof to reduce heat gain to the building. Also, the side walls of the building will be constructed with hollow block for reduction in heat gain. ➤ Building Management System (BMS) through sensors for maximizing the energy conservation. ➤ Solar water heating system for the hot water requirement. ➤ Electrical fixtures & HVAC unit would be of 5 star series as per Bureau of Energy Efficiency (BEE) to

	achieve reduction in energy consumption.
What type of, and capacity of power back-up to you plan to provide?	The project proponent has made provision of D.G. Sets (500 kVA x 1 no. + 1000 kVA x 2 nos.) as standby arrangement of electricity.
What are the characteristics of the glass you plan to use? Provide specifications of its characteristics related to both short wave and long wave radiation?	The glass used will be with low emissivity and the other specifications of the glass will comply with the norms as per ECBC.
What passive solar architectural features are being used in the building? Illustrate the applications made in the proposed project	All the relevant features are incorporated like the orientation of the building, shading effect etc.
Does the layout of streets & buildings maximize the potential for solar energy devices ? Have you considered the use of street lighting, emergency lighting and solar hot water systems for use in the building complex ? Substantiate with details	Due consideration has been taken for maximum use of the solar energy while preparation of layout plan. The project proponent shall made provision for solar panel system (hot water purpose) in building block area and solar energy devices will be used for street lighting, emergency lighting in the proposed project.
Is the shading effectively used to reduce cooling/heating loads? What 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?	All the relevant features are incorporated like the orientation of the building, shading effect etc.
Do the structure use energy-efficient space conditioning , lighting and mechanical systems? Provide technical details. Provide details of transformers and motor efficiencies, lighting intensity and air-conditioning load assumptions ? Are you using CFC and HCFC free chillers? Provide specifications.	Suitable energy optimization will be adopted during the calculation of energy load of the proposed project. The space heating load will be minimized using passive solar structure and suitable buildings envelop material. Uses of incandescent lamp and halogen lamps have been avoided and energy efficient LED lamps will be used for all common area. The diesel generator sets shall be automatically controlled to optimize their usage based on the actual load requirements 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

building activity in altering the micro-climates ? Provide a self assessment on the likely impacts of the proposed construction on creation of heat island & inversion effects?	creation of any heat islands. The roads and parking spaces would be with concrete slabs intermittent with grass on surrounding.
What are the thermal characteristics of the building envelope? (a) roof (b) external walls; and (c) fenestration? Give details of the materials used.	<p>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 through unit area of a material or construction and the boundary air films, induced by unit temperature difference between the environments on each side.</p> <p>The glass used will be with low emissivity and the other specifications of the glass will comply with the norms as per ECBC.</p>
What is the rate of air non-conventional energy technologies are utilized in the overall energy consumption? Provide details of the renewable energy technologies used.	<p>The use of non-conventional source of energy in the proposed construction project are as follows: -</p> <p>Solar Water Heater:- The proposed project would install solar panels for hot water requirements in the building block and hence the dependency on electricity for hot water generation can be minimized. This would 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.</p> <p>Solar Street Light: - It is also suggested to use solar cell powered street lights within the proposed project site for conservation of electricity.</p> <p>Use of LED Lamps: - The project proponent would use LED Lamp which conserve less electricity.</p>
Details of renewable energy (non - conventional) used.	Solar water heating system for the hot water generation and solar power operated street lights.
IMPACT ON AIR ENVIRONMENT	
What are the mitigation measures on generation of dust, smoke , odours, fumes or hazardous gases	The dust generation during construction phase will be controlled by enclosures at appropriate locations and also by sprinkling of water for suppression of dust. The gas/smoke generation expected is from D.G. sets only and the gases will be vented out through stack of appropriate height.
Details of internal traffic	The internal road width will be as per KMBR for the

management of the site.	smooth vehicular movement. It is proposed to have bell mouthed separate entry / exit for hotel & convention centre for the smooth movement of vehicles.
Details of noise from traffic, machines and vibrator and mitigation measures	The proposed project is a hotel cum convention centre building construction project and there would be some increase in noise and vibration due to the vehicular movement within the project site. The project has provision of large area for the parking 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 reduce the traffic congestion.
Air quality monitoring in detail	The ambient air quality of the site carried out through an accredited laboratory which is well within the standard limit.
Will the proposal create shortage of parking space for vehicles? Furnish details of the present level of transport infrastructure and measures proposed for improvement including the traffic management at the entry & exit to the project site.	No shortage of parking space. Parking provisions would be made as per the KMBR requirements. Parking Proposed are 482 Cars + 429 T.W. within the site. The parking arrangement will be made at open surface (regular car parking slot & stack car parking slot) within the site. It is proposed to have bell mouthed separate entry / exit for hotel & convention centre for the smooth movement of vehicles.
Provide details of the movement patterns with internal roads, bicycles tracks, Pedestrian pathways, footpaths etc., with areas under each category	The conceptual plan clearly shows the internal traffic management with entry and exit to the proposed project site, all internal roads with width, pedestrian path ways etc. Further provision of ramps are proposed for the easy access to the building for physically challenged persons.
Will there be significant increase in traffic noise & vibrations? Give details of the sources and the measures proposed for mitigation of the above.	The proposed project is hotel cum convention centre building project and there would be some increase in noise and vibration due to the vehicular movement within the project site. The project has provision of large area for the parking 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 reduce the traffic congestion.
What will be impact of DG sets & other equipments on noise levels	The D.G. sets which would be used for the project will be with sound proof acoustic enclosures and hence there will

<p>& vibration in & ambient air quality around the project site? Provide details</p>	<p>be no impact to the surroundings. The D.G. sets would be attached with proper anti vibration pads to reduce any vibration impact to the site surrounding.</p> <p>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.</p>
<p align="center">IMPACT ON BIODIVERSITY AND ECO RESTORATION PROGRAMMES</p>	
<p>Will the project involve extensive clearing or modification of vegetation (Provide details)</p>	<p>There are some of native species of trees and different varieties of shrubs, herbs, grass & climbers at site.</p> <p>For the development of the proposed project, existing trees, different varieties of shrubs, herbs, grass & climbers will be cleared.</p>
<p>What are the measures proposed to minimize the likely impact on vegetation (details of proposal for tree plantation/ landscaping)</p>	<p>Due to the proposed development, some of the existing trees will be cut from 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.</p>
<p>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)</p>	<p>There will be no displacement of fauna due to the construction of the proposed project.</p> <p>There is no presence of endangered species or red listed category.</p>
<p align="center">SOCIO- ECONOMIC ASPECTS</p>	
<p>Will the proposal result in any change to the demographic structure of local population? Provide the details.</p>	<p>The proposed project is hotel cum convention centre project. During operation phase, on full occupancy of the project, the maximum population expected is about 2,751 persons (floating) and hence there will be influx of people (fixed) to the project area and surrounding. Some of the staff in the proposed hotel cum convention centre building may reside within the project vicinity and hence there will be increase in demographic structure.</p>
<p>Give details of the existing social infrastructure around the proposed project</p>	<p>There are several commercial / residential buildings, office buildings, schools, colleges, religious places, Govt. and private establishments which are located around the proposed project. The vicinity map showing the surrounding details of the proposed project is provided.</p>
<p>Will the project cause adverse</p>	<p>The project would not cause any adverse effects on local</p>

effects on local communities, disturbances to sacred sites or other cultural values? What are the safeguards proposed?	communities, disturbance to sacred sites or other cultural values. The proposed project is hotel & convention centre project and thereby the living index of the people around the project site will definitely improve. Also there will be various ancillary activities like convenient shops, offices, transport facilities etc. attached to the project which will benefit the local people and change their living condition.
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 project is hotel cum convention centre building and proposed building is a centrally air conditioned building, 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 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.
Give details of the methods of collection, segregation & disposal of the garbage generated during	➤ The Solid Waste Management Rules, 2016 will be followed in the Solid Waste Disposal Mechanism at the site during operation phase.

the operation phases of the project.

- Collection & segregation within the site (bio-degradable 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 painted 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.

RISK MANAGEMENT

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

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 Tank of appropriate 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 Extinguishers 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 <i>Meenchanda</i> Fire Station, which is about 3.5 km. away from the project site.
Storage of explosives/hazardous substance in detail	Yes, all precautionary measures in the storage & handling of HSD will be followed.
What precautions & safety measures are proposed against fire hazards? Furnish details of emergency plans	Details already provided above.
Litigation/court cases if any	No any litigation/court case pending.
AESTHETICS	
Will the proposed constructions in any way result in the obstruction of a view, scenic amenity or landscapes? Are these considerations taken into account by the proponents?	No. There is no any scenic beauty near the project site (except a thodu in the north & west side). The proposed project in no way work as an obstruction of view.
Will there be any adverse impacts from new constructions on the existing structures? What are considerations taken into account?	The project site is located within the Kozhikode Corporation and the project site is surrounded by the commercial / residential buildings. In the north east side there is access road (Mini Bypass Road). Also, there is vacant land with mixed plantation. Thereby, there will be no any adverse impacts due to the development of the proposed project. There will be no any adverse impacts due to the development of the proposed project.
Whether there are any local considerations of urban form & urban design influencing the design criteria? They may be explicitly spelt out.	The proposed project would be constructed in conformity with the Kerala Municipality Building Rules (KMBR). As per seismic classification, the project site falls in Zone-III. No reported cloudburst in the area. Also, there is no hilly area around the project site, there is no chance of landslide. Structural design aspects as per the seismic codes – IS 1893 (2002), IS 13920 (1993) and IS 456 (2000) as applicable would be incorporated in our project. The drain which is located in the western & northern side will be protected during the construction & operation phase.
Are there any anthropological or archaeological sites or artefacts nearby? State if any other significant features in the vicinity of the proposed site have been considered	There is no report of existence of any anthropological or archaeological site nearby the project area. The proposed project is located in Corporation limits of Kozhikode. The vicinity map showing the site & surrounding area is provided.

Details of CSR activity and the amount set apart per year	Yes.															
	A detailed study on social status of the project site surroundings & need base study on proposed CSR activities were carried out. The summary of the report is given below :-															
	<table><tr><th>Sl. No.</th><th>Particulars</th><th>Amount (Rs. In lakhs)</th></tr><tr><td>1.</td><td>Promotion of Education</td><td>Recurring – Rs. 2.0 Lakhs Non-recurring - Rs. 6.3 Lakhs</td></tr><tr><td>2.</td><td>Environmental Sustainability</td><td>Recurring - Rs. 4.10 Lakhs Non-recurring – Rs. 6.50 Lakhs</td></tr><tr><td>3.</td><td>Health Care</td><td>Recurring - Rs. 4.25 Lakhs Non-recurring – Nil</td></tr><tr><td></td><td>Total</td><td>Recurring - Rs. 10.35 Lakhs Non-recurring - Rs. 12.80 Lakhs</td></tr></table>	Sl. No.	Particulars	Amount (Rs. In lakhs)	1.	Promotion of Education	Recurring – Rs. 2.0 Lakhs Non-recurring - Rs. 6.3 Lakhs	2.	Environmental Sustainability	Recurring - Rs. 4.10 Lakhs Non-recurring – Rs. 6.50 Lakhs	3.	Health Care	Recurring - Rs. 4.25 Lakhs Non-recurring – Nil		Total	Recurring - Rs. 10.35 Lakhs Non-recurring - Rs. 12.80 Lakhs
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The project proponent will set apart an amount of about Rs. 45 lakhs over a period of about 30 months for CSR activities for the welfare of local community in consultation with the Kozhikode Corporation.																
Details of NABET approved EIA Consultant engaged-Their name, address and accreditation details	M/s Environmental Engineers & Consultants Pvt. Ltd. (NABET Accredited Consultant Organization) Head Office :- A1-198, Janak Puri, New Delhi. Branch Office:- C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala.															
Details of Authorized Signatory and address for correspondence	Mr. Packer Koya P.P. (Director) M/s Lulu Convention Center Calicut (Pvt.) Ltd. 24/826A, P.O. Mankavu, P.B. No. 1240, Calicut, Kerala-673007.															
SUMMARY AND CONCLUSION																
Overall justification for implementation of the project.	The proposed project is a construction of hotel cum convention centre building project and the total implementation / completion period for the construction is about 30 months from the start of the construction.															
Explanation of how adverse impact have been mitigated.	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 project infrastructures will be of use to people of the area. The revenue of the State Govt. will be															

	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 are proposed for storage of rain water and for its subsequent use so as to conserve fresh water consumption. The municipal solid 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.
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2. The proposal was placed in the 73rd meeting of SEAC held on 30th & 31st May 2017. Further to the intimation of SEAC, the proponent and engineer attended the meeting and the engineer made a power point presentation about the salient features of the project briefly. The Committee appraised the proposal based on Form 1, Form I A, conceptual plan and other connected documents.

The proponent agreed to set apart an amount of Rs.20 lakh per annum for CSR activities for the welfare of the local community in consultation with the local the local body.

The Committee decided to defer the item for field inspection. The Committee also directed the proponent to submit the following additional documents/ details.

1. *Report on water yield test.*
2. *Revise the parking plan with enhanced provisions.*
3. *Portion of the energy proposed to be met from non-conventional sources.*
4. *Clarification whether the site attracts the provisions of the CRZ notification.*

Accordingly the Sub Committee members consisting of Sri P S Harikumar and Sri S. Ajayakumar has conducted the site visit on 17th June 2017 and submitted their report.

3. The proposal was placed in the 75th meeting of SEAC held on 29th & 30th June, 2017. 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 and decided to defer the item for submission of the following details/documents.

1. *NOC from KCZMA.*
2. *After the presentation of the proposal before the SEAC, some more land was acquired from the government. Hence,*
 - i. *A revised conceptual plan showing the whole land should be submitted.*
 - ii. *A copy of the Govt Order allotting the land to the Proponent should be submitted.*
 - iii. *Entry to the plot should be relocated sufficiently away from the junction to avoid traffic congestion.*
3. *Copy of the order exempting the plot from the pervue of the Kerala Paddy and Wetland Act 2008.*

The proponent has submitted the documents/clarifications sought by 75th meeting of SEAC held on 29th & 30th June, 2017.

4. The proposal was placed in the 81st meeting of SEAC held on 30th & 31st October. The proposal was appraised by the Committee after considering Form I, Form IA, Conceptual plan, field visit report and all other documents and details provided by the proponent the proposal and the field visit report and decided to **Recommend for issuance of EC** subject to general conditions in addition to the following specific condition.

1) *The entry gate should be located sufficiently away from the junction to avoid the traffic congestion.*

5. The proposal was placed in the 76th meeting of SEIAA held on 16.11.2017. Authority accepted the recommendation of SEAC and decided to issue EC subject to general conditions in addition to the following specific conditions.

1) *The entry gate should be located sufficiently away from the junction to avoid the traffic congestion.*

2) *Green conditions related to construction should be strictly adhered to.*

3) *As per the landmark judgment dated 3rd September 2017 of the Principle Bench of National Green Tribunal (NGT), developers should give a satisfactory explanation on the facilities provided for open space, recreational grounds and parking facilities at the project site as they have an important bearing on the life of people.*

2% of the total project cost should be set apart for CSR activities in consultation with the local panchayat and details should be forwarded to SEIAA before the issue of EC. A notarised affidavit for the commitment of CSR activities and also agreeing to all the general and specific conditions should be submitted before the issuance of EC.

6. The proponent has submitted the affidavit dated 05.12.2017 read as paper (6) 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 Hotel & Convention Centre Project by Mr. Packer Koya P.P , Director M/s Lulu Convention Center Calicut Pvt. Ltd. in Sy. Nos. 271, 272, 282, 283, 285, 286, 287, 288, 290, 291/1A, 291/1B, 321/2, 364, 367/2, 368, 369/2, 370, 372/1, 488/1A1A, 488/2 at Valayanad Village, Kozhikode Taluk, Kozhikode District, Kerala subject to the specific conditions mentioned in para 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, Kozhikode to take legal action under the Environment (Protection) Act 1986.
- iii. The given address for correspondence with the authorized signatory of the project is, Mr. Packer Koya P.P , Director, M/s Lulu Convention Center Calicut Pvt. Ltd, 24/826A, P.O. Mankavu, P.B. No. 1240, Calicut, Kerala-673007.

Sd/-

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

To,


Mr. Packer Koya P.P ,
Director,
M/s Lulu Convention Center Calicut Pvt. Ltd,
24/826A, P.O. Mankavu, P.B. No. 1240
Calicut, Kerala-673007

Copy to:

1. 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, Kozhikode
4. The District Town Planner, Kozhikode
5. The Tahsildhar, Kozhikode Taluk, Kozhikode 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, Kozhikode Municipal Corporation Office, Calicut Beach Road, Near Akashvani, Kozhikode- 673007
9. Chairman, SEIAA, Kerala
10. Website
11. Stock file
12. O/c



Forwarded/By Order


Administrator, SEIAA

GENERAL CONDITIONS *(for projects other than mining)*

- (i) Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.
- (iv) 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 national grid in future.
- (v) Safety measures should be implemented as per the Fire and Safety Regulations.
- (vi) STP should be installed and made functional as per KSPCB guidelines including that for solid waste management.
- (vii) The conditions specified in the Companies Act, 2013 should be observed for Corporate Social Responsibility.
- (viii) The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- (ix) Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.
- (x) 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.
- (xi) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xii) 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.
- (xiii) The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
- (xiv) The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.
- (xv) Provision should be made for supply of kerosene or cooking gas and pressure cooker to the labourers during construction phase.
- (xvi) Officials from the Regional of MOEF, Bangalore who would be monitoring the 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.
- (xvii) These stipulations would be enforces among others under the provisions of Water (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.
- (xx) 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.

- vi. 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.
- vii. Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- viii. Construction spoils, including bituminous material and other hazardous materials, 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.
- ix. Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approval of the Kerala State Pollution Control Board.
- x. 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.
- xi. 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.
- xii. 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.
- xiii. 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 made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/KSPCB.
- xiv. 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 27th August 2003. (The above condition is applicable Power Stations).
- xv. Ready mixed concrete must be used in building construction.
- xvi. Storm water control and its re-use per CGWB and BIS standards for various applications.
- xvii. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xviii. Permission to draw ground shall be obtained from the Computer Authority prior to construction/operation of the project.
- xix. Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- xx. 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.
- xxi. Use of glass may be reduced by upto 40% to reduce the electricity consumption and load on airconditioning. If necessary, use high quality double glass with special reflective coating in windows.
- xxii. Roof should meet prespective requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.
- xxiii. Opaque wall should meet perspective requirement as per energy Conservation 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.
- xxv. 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 odour 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 off/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



