



File No: 2238/EC1/2023/SEIAA

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority(SEIAA),
KERALA)



Date 13/02/2025



To,

Sri. Santosh Koshy Thomas
The Kerala Industrial Corridor Development Corporation Ltd
KINFRA Hi Tech Park, HMT Colony P.O., Kalamassery, Ernakulam, Kerala - 683503
koshy@kinfra.org

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/KL/INFRA2/456060/2023 dated 30/04/2024 for grant of prior Environmental Clearance (EC) to the proposed Integrated Manufacturing Cluster (IMC) under Kochi - Bangaluru Industrial Corridor (KBIC) under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23B3813KL5296930N
(ii) File No.	2238/EC1/2023/SEIAA
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	8(b) Townships/ Area Development Projects / Rehabilitation Centres
(vii) Name of Project	Integrated Manufacturing Cluster (IMC) at Kannambra for Palakkad Node in Kerala under Kochi-Bengaluru Industrial Corridor (KBIC)
(viii) Name of Company/Organization	The Kerala Industrial Corridor Development Corporation Ltd.
(ix) Location of Project (District, State)	Palakkad, Kerala
(x) Issuing Authority	SEIAA, Kerala
(xi) Applicability of General Conditions as per EIA Notification, 2006	Yes

3. In view of the particulars given in Para 1 above, the project proposal interalia including Form-1 (Part A and B) were submitted to the Ministry for an appraisal by the State Environment Impact Assessment Authority (SEIAA), Kerala under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by the State Expert Appraisal Committee (SEAC) in its 174th meeting held on 22nd of November 2024 and the State Environment Impact Assessment Authority (SEIAA) in its 151th meeting held on 30th - 31st December, 2024. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C, EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.
5. The brief about project details, the Environmental Management Plan and Corporate Environment Responsibility (CER) to be implemented or followed are annexed to this EC.
6. The SEAC, in its 174th meeting, based on information & clarifications provided by the project proponent and after detailed deliberations, recommended EC for 10 years subject to certain Specific Conditions in addition to the General Conditions as detailed in Annexure (1).
7. The SEIAA examined the proposal in its 151th meeting in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and decided to accept the recommendation of 174th SEAC meeting and to issue Environmental Clearance for the development of Integrated Manufacturing Cluster (IMC) in Kerala Under Kochi-Bengaluru Industrial Corridor (KBIC) for a period 10 years (as per O.M. dated 13.12.2022), subject to the Specific Condition in addition to the General Conditions as detailed in Annexure (1).
8. Environmental Clearance is hereby accorded to the Managing Director, The Kerala Industrial Corridor Development Corporation Limited, KINFRA Hi Tech Park, HMT Colony P.O, Kalamassery for the development of Integrated Manufacturing Cluster for Palakkad Node, under Kochi-Bengaluru Industrial Corridor at Re Sy. Block No. 36, Re Sy. Nos 202/33, 350/2, 347/1pt, 225/2, 350/3, 350/7, 354, 348/3, 352/1,2pt, 349/1pt, 350/4, 351/1, 351/2, 351/2, 351/2, 348/1, 225/2pt, 347/1, 347pt, 202/28pt, 347/1, 347/3pt, 350/5, 348/2pt, 346/3, 346/2, 353/1, 353/2, 353/4, 353/3, 346/1, 347/4pt, 347/4pt, 347/3pt, 202/7, 202/25, 202/10, 202/28pt, 104/4pt, 104/9pt, 202/8, 202/27, 202/11, 348/1pt, 225/2pt, 347/pt, 347pt, 202/8, 202/11, 348/2, 225/2, 348/2, 202/43, 348/2, 349/2pt, 352/1pt, 3, 202/1, 202/2pt, 202/4, 202/3, 202/12, 202/14, 202/8, 202/26, 202/29, 202/30, 202/11, 202/15, 350/6, 202/26, 202/11, 202/13pt, 362/2, 362/2, 362/2, 358/2pt, 356pt, 356pt, 356pt, 356pt, 356pt, 356pt, 356pt, 356pt, 356, 358/7, 358/3, 357/pt, 356pt, 356pt, 121/6, 121/6, 354, 354/2, 358/4, 357pt, 354, 358/6, 356pt, 361/1, 361/1, 354, 354, 356pt, 361/1, 357/1pt, 114/3, 114/4, 114/5, 114/6, 115/7, 358/5, 358/2, 358pt, 361/3p, 355/1, 115/6, 355/1, 355/2, 345pt, 344pt, 344pt, 345pt, 345pt, 345pt, 119/11pt, 99/2, 98/6pt, 99/1, 118/13, 118/18, 118/19, 120/22pt, 119/1pt, 119/2pt, 120/18pt, 120/20pt, 120/20pt, 120/24, 119/4, 119/2pt, 343/2p, 343/2pt, 343/1pt, 343/2pt, 343/2pt, 98/2p, 98/6pt, 98/3pt, 119/11pt, 344, 345, 343/2pt, 343/2p, 343/1pt, 120/21pt, 120/20pt, 120/21pt, 343/1pt, 343/2pt, 227/2pt, 227/2pt, 226/1pt, 226/1pt, 119/13, 119/14, 119/6, 119/5, 119/12, 119/10, 98/4, 98/5pt, 115/3pt, 104/2pt, 104/5pt, 105/2pt, 106pt, 118/24, 118/16, 116pt, 117pt, 118/3, 118/14, 118/1, 118/2, 115/3p, 118/21pt, 118/23pt, 118/17pt, 118/12pt, 118/17pt, 118/12pt, 118/20, 118/20, 118/20, 116pt, 117pt, 116pt, 117pt, 104/9pt, 104/2p, 104/5pt, 104/2pt, 116pt, 117pt, 104/5pt, 104/5pt, 116pt, 357pt, 111/6, 112/3, 112/6, 112/2, 110/1, 110/18, 11, 110/2, 112/1, 112/1, 112/2, 112/3, 112/2, 112/4, 112/4, 112/4, 112/5, 111/1, 111/1pt 112/3, 111/2, 3, 4, 5, 109/2pt, 3pt, 110/6pt, 110/9, 110/9, 110/2, 110/6, 110/6, 108/5, 109/4, 108/4, 108/5, 109/7, 109/2, 3, 109/6, 110/6, 109/6, 109/5, 108/2, 108/5, & 108/6 in Kannambra I Village, Alathur Taluk, Palakkad for a period of 10 (Ten) years.
9. Validity of the Environmental Clearance will be for 10 (Ten) years, subject to the earlier review by SEAC in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.
10. Violation of any of the Specific & General Conditions annexed (1), as applicable to the particular case, will entail cancellation of the Environmental Clearance, in addition to legal action under the provisions of the Environment (Protection) Act, 1986. Non-compliance, if any shall be reported to the District Collector, Palakkad or SEIAA, Kerala.
11. The Ministry / SEIAA, Kerala reserves the right to modify and/or stipulate additional conditions, if found necessary.
12. The EC to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
13. This issues with the approval of the Competent Authority.

Copy To

MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-

560034.(through e-mail: ros2.bng-moefcc@gov.in)
The Secretary, Environment Department, Government of Kerala
The Member Secretary, Kerala State Pollution Control Board, Thiruvananthapuram
The District Collector, Palakkad
The Director, Mining & Geology, Thiruvananthapuram
The District Geologist, Palakkad
The Environmental Engineer, KSPCB, Palakkad
The Tahsildhar, Alathur Taluk, Palakkad
The Secretary, Kannambra Grama Panchayat, Palakkad
Website

Annexure 1

Specific EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centres)

1. Site Specific Conditions

S. No	EC Conditions
1.1	The validity of EC is subject to the condition that the FAR of the project shall not exceed the permissible limit. The Chief Town Planner should ensure that FAR of the project is within the permissible limit.
1.2	50 percentage of CER expenditure earmarked for health check-ups should be used for maintenance of local roads outside the project area.
1.3	Primary treatment facility should be provided at the individual industry level prior to letting out the effluents from each industrial units to the common effluent treatment plant to improve the efficiency of the common treatment facility.
1.4	The details of primary treatment facility proposed for each industries should be included in the first HYCR.
1.5	The site is characterized by various natural drains and its micro watersheds and all the micro watersheds should be conserved for harvesting rain water and developing alternate source of water. The progress of conservation of such watersheds and harvesting of water should be monitored and the progress should be incorporated in the HYCR.
1.6	The harvested water within the project area should be used to the maximum thereby dependence on the external source should be reduced. The water usage from the external and internal sources should be monitored and provided in the HYCR.
1.7	The conservation plan for the existing canals, streams and ponds in the proposed site should be implemented meticulously and the progress should be incorporated in the HYCR.
1.8	The water table in the wells located within the project site should be monitored during pre-monsoon, post-monsoon and summer season and the details should be given in the HYCR.
1.9	Utmost care and safeguard should be adopted to prevent any accidental spillage of effluents from the CETP to the adjacent RWH facility.
1.10	SoP for mitigating human-wildlife conflict should be implemented to avoid nuisance and accidents.

S. No	EC Conditions
1.11	Proper water conservation measures are to be implemented in the site and the water shall be used for their purposes
1.12	Since the project area located within Peechi-Vazhani Wildlife Sanctuary and the Chimmoni Wildlife Sanctuary, the Project Proponent has to obtain Wildlife Clearance from the SCNBWL as per the OM dated 17.05.2022 of MoEF&CC as per the directions in the Hon'ble Supreme Court Judgement dated 26.04.2023 in IA 13177 of 2022 before the commencement of mining.
1.13	The Authority makes it amply clear that EC issued does not necessarily imply that Wildlife clearance shall be granted to the Project Proponent and that the proposal for Wildlife clearance will be considered by the respective Authorities on its merit and decision taken accordingly. The investment made in the project if any based on this EC in anticipation of clearance from Wildlife angle shall be entirely at the cost and risk of the Project Proponent and MoEF&CC and SEIAA shall not be responsible in this regard in any manner.
1.14	Copy of the EC shall be marked to IGF (WL), MoEF&CC, PCCF and Chief Wildlife Warden, Kerala, District Collector, Palakkad and Department of Industries GoK, besides others for information and necessary further action.
1.15	Copy of the EC shall be marked to the respective Wildlife Wardens and to the Environmental Engineer, KSPCB. They are directed to ensure that Project Proponent will not commence the mining operations without clearance from SCNBWL.
1.16	Adequate sources for water to meet the requirement during construction and operational phase is to be ensured and details should be given in HYCR.
1.17	Maximum efforts should be taken to maintain the local topography of the land profile as such by avoiding deep cutting /filling.
1.18	Project Proponent must ensure that only filtered overland drain is discharged to the nearby natural drain.
1.19	The FAR norms should be complied with strictly.
1.20	The guidelines for green rating and green building certification to buildings based on green standards issued by the Government of Kerala vide GO (MS) No. 39/2022/LSGD dated 25.2.2022 should be adhered to.
1.21	Green belt surrounding the campus, avenue tree planting, and garden development should commence from the beginning of the construction phase. Suitable local species should be used for green belt and avenue trees.
1.22	Vegetation should be developed appropriately on the ground as well as overbuilt structures such as roofs, basements, podiums, etc.
1.23	Adequate safety gadgets and instruments should be provided to the people engaged in the treatment of solid as well as liquid wastes. Periodic checkups regarding the health status of the people should be undertaken.
1.24	The Kerala Energy Conservation (Building Code) Rules 2017 should be complied with.

S. No	EC Conditions
1.25	The Project Proponent should examine the scope for improving energy conservation measures periodically and should implement the same and the progress should be incorporated in the HYCR.
1.26	Periodic monitoring of water samples from the groundwater sources should be carried out. Adequate treatment methods should be followed to remove the contaminants.
1.27	Treated water from CETP should be reused to the maximum extent and balance if any should be discharged through a series of soak pits for recharging the local ground water, and for avoiding discharge of treated water into the nearby public drain.
1.28	Comprehensive drainage plan in consonance with the micro-watershed conservation plan should be implemented.
1.29	Water efficient plumbing features for saving water use should be adopted as per the plan submitted.
1.30	The Project Proponent should make provision for the housing of construction labour with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).
1.31	Climate responsive design as per Green Building Guidelines in practice should be adopted.
1.32	The green building criteria notified in the GO (Ms) No. 39/2022/LSGD dated 25.2.2022 should be adopted.
1.33	Appropriate greening measures should be adopted on the ground as well as over built structure such as roofs, basements, podiums etc.to reduce the urban heat effect of civil structures.
1.34	Exposed roof area and covered parking should be covered with material having high solar reflective index.
1.35	Building design should cater to differently-abled citizens.
1.36	Appropriate action should be taken to ensure that the excess rainwater runoff reaches the nearest main natural drain of the area and if necessary, carrying capacity of the natural drain should be enhanced to contain the peak flow.
1.37	Design of the building should comply with Energy Building Code as applicable.
1.38	Energy conservation measures as proposed in the application should be adopted in total. Ensure 20% of the energy requirement shall be maintained by solar energy.
1.39	Buildings should be barricaded with GI sheets of 6 m. (20 feet) height so as to avoid disturbance to other buildings nearby during construction.
1.40	Construction work should be carried out during day time only.

S. No	EC Conditions
1.41	All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed.
1.42	All vehicles carrying construction materials should be fully covered and protected.
1.43	All construction material of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
1.44	Grinding & cutting of building materials should not be done in open areas. Water jets should be used in grinding and stone cutting.
1.45	Occupational health safety measures for the workers should be adopted during the construction.
1.46	All vehicles during the construction phase should carry PUC certificate.
1.47	D.G. set should be provided with adequate stack height and regular maintenance should be carried out before and after the construction phase and would be provided with an acoustic enclosure.
1.48	Green belt should be developed along the periphery of the site with indigenous species.
1.49	Usage of energy saving 5 star rating equipment such as BLDC fans and LED lamps should be promoted as part of energy conservation.
1.50	Adequate built-in composting facility should be set up for the treatment of biodegradable waste as the capacity or the number of BIOBIN proposed is inadequate.
1.51	There shall be an Environment Management Committee consisting of representatives from KCDCL official, industrial units, an environment expert, etc. The committee shall meet once in 6 months and the observations/decisions of the committee should find a place in the half yearly completion report.
1.52	Authority makes it clear that as per clause 8 (vi) of EIA notification 2006, deliberate concealment and/or submission of false or misleading information or data which is material to screening or scoping or appraisal or decision on the application shall make the application liable for rejection and cancellation of prior EC granted on that basis.
1.53	As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.
1.54	The Project Proponent shall obtain all necessary clearances/licenses/permissions from all the statutory authorities issuing clearances/ licenses/ permission for the construction projects of this nature.

S. No	EC Conditions
1.55	The Project Proponent is directed to install a CCTV camera and take all other essential measures to ensure that project site is not used by antisocial elements for nefarious antisocial activities which are detrimental for peaceful coexistence in the project region. In case if such complaints are received, the EC given is likely to be cancelled after a police verification.
1.56	The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.

Standard EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centres)

1. Statutory Compliance

S. No	EC Conditions
1.1	The stipulations/conditions issued by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, Solid Waste Management Rules, 2016 Plastic Waste Management and Handling Rules, 2016, Construction and Demolition Waste Management Rules 2016, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
1.2	The conditions specified in the EIA notifications 2006 and subsequent amendments, the specific directions given by SEIAA/SEAC should be followed under corporate Environment Responsibility. The activities carried out under CER should be listed with details in Half yearly compliance report along with Status of Implementation and certificates from the beneficiaries and photographs.
1.3	Safety measures should be implemented as per the Fire and Safety Regulations/SDMA guidelines.
1.4	Environment Monitoring Committee as agreed under the affidavit filed by the proponent should be formed and made functional. Environmental Monitoring Committee with defined functions and responsibility should foresee post operational environmental problems (Eg. development of slums near the site, increase in traffic congestion, power failure, increase in noise level, natural calamities, and increase in suspended particulate matter etc.) and action taken to solve these immediately with mitigation measures
1.5	The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time. Provision should be made for providing cooking facilities and supply of kerosene or cooking gas to the labourers.
1.6	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.
1.7	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining the statutory clearances.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	Suitable avenue trees should be planted on either side of approach road and internal roads and open parking areas, if any. The proponent should plant trees at least 5 times of the loss of trees that has occurred while clearing the land for the project. The native flowering and fruiting species only shall be used for planting and planning should be done considering the nature of public use.
2.2	All statutory permissions including "Consent for Establishment" to STP/ETP, Solid waste management plant, Power Generator etc shall be obtained from Kerala State Pollution Control Board under Air Act and Water Act and Environment (Protection) Act. A copy shall be submitted to the Ministry/SEIAA before start of any construction work at the site.
2.3	The diesel generator sets used during construction phase should be of low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards. The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken. DG sets shall be installed and made functional as per guidelines of KSPCB.
2.4	Vegetation should be adopted appropriately on the ground as well as over built structure such as roofs, basements, podiums etc
2.5	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. (Applicable to Power Stations).
2.6	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.
2.7	Low sulphur diesel shall be used as fuel in DG sets. The location of the DG sets may be decided in consultation with Kerala State pollution Control Board. DG sets should not be housed in sub basement levels.

3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	Top soil excavated should not be used for reclaiming wetlands.
3.2	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such materials must be secured so that they will not leach into the ground water.
3.3	Soil and ground water samples shall be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
3.4	Storm water control and its re-use measures as per CGWB and BIS standards shall be followed for various applications.

S. No	EC Conditions
3.5	Ready mixed concrete must be used in building construction. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
3.6	Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
3.7	Separate dual plumbing line should be provided; one line for Toilet Flushing / Gardening / Vehicle wash and another separate line for other domestic uses, for ensuring reuse / recycle of treated waste water to the maximum extent possible.
3.8	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
3.9	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.
3.10	Water efficient plumbing features should be adopted
3.11	Weep holes shall be provided in the compound walls to ensure natural drainage of rain water during the monsoon period
3.12	Rain Water Harvesting structures should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified elsewhere. Rain water harvesting measures for roof run-off and surface run-off, as per approved building plan should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 5 m above the highest ground water table.
3.13	The ground water level and its quality should be monitored regularly in consultation with State Groundwater Department/Central Ground Water Authority.

4. Noise Monitoring And Prevention

S. No	EC Conditions
4.1	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be taken to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/KSPCB.
4.2	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.
4.3	The green belt of adequate width and density shall be raised preferably with local species along the periphery of the project site so as to provide protection against particulate matter and noise

5. Energy Conservation Measures

S. No	EC Conditions
5.1	The project shall incorporate devices for solar energy generation and utilization to the maximum possible extent with the possibility of contributing the same to the power grid and consumption in future.
5.2	Use of glass may be reduced by 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating on windows.
5.3	Design of the building should be in compliance to Energy Building Code as applicable
5.4	Roof should meet perspective requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill the requirement.
5.5	Opaque wall should meet perspective requirement as per energy Conservation Building Code which is proposed to be mandatory for all air conditioned spaces while it is optional for non-airconditioned spaces by use of appropriate thermal insulation material to fulfill requirement
5.6	Climate responsive design as per Green Building Guidelines in practice should be adopted
5.7	Exposed roof area and covered parking should be covered with material having high solar reflective index
5.8	The buildings should have adequate distance between them to allow movement of fresh air and passage of natural light and ventilation.
5.9	A Report on the energy conservation measures, conforming to energy conservation norms issued by Bureau of Energy Efficiency, should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the Ministry in three months time.
5.10	Energy conservation measures like installation of LED /CFLs/TFLs for the lighting the areas outside the building should be an integral part of the project design and should be in place before project commissioning. Used LED/CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Solar panels may be used to the extent possible.

6. Waste Management

S. No	EC Conditions
6.1	All required sanitary and hygienic measures should be in place before starting construction activities which are to be maintained throughout the construction phase.
6.2	Any hazardous waste generated during construction phase, should be disposed off to authorised/approved Waste Collectors as per applicable rules and norms with necessary approval of the Kerala State Pollution Control Board.
6.3	Sewage Treatment Plant (STP) should be installed and made functional as per KSPCB guidelines. On/site Treatment of Sewage and Sullage should be done with scientific method ,ensuring efficiency of treatment, ease in operation , sustainability and it should contain the units of primary,

S. No	EC Conditions
	secondary, tertiary and quaternary type of treatment scheme. The installation of the STP should be certified by an independent expert and a report in this regard should be submitted to the Ministry/SEIAA before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. Treatment of 100% grey water shall be done through a decentralized treatment. Reuse of water shall be practiced for flushing process and garden purposes. Discharge of unused treated effluent shall conform to the norms and standards of the Kerala State Pollution Control Board. Necessary measures should be taken to mitigate the odour problem from STP.
6.4	Solid waste management plant shall be installed and made functional as per the guidelines of KSPCB. The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material. Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
6.5	Provide adequate Material Collection Facility (MCF) for storage of non-biodegradable waste including plastic waste and E waste, for handing over the same to Recyclers/ Local Body , as stipulated by Kerala State Pollution Control Board.

7. Transport

S. No	EC Conditions
7.1	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to the applicable air and noise emission standards and should be operated only during non-peak hours. During the transportation of building materials/products, the vehicles shall be covered with suitable materials to prevent dust pollution.
7.2	Traffic congestion near the entry and exit points from the roads adjoining the project site must be avoided. Parking should be fully internalized and no public space should be utilized

8. Human Health Issues

S. No	EC Conditions
8.1	Provide safe and healthy basic facilities for construction workers as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996
8.2	Adequate drinking water and sanitary facilities should be provided for construction workers at the site, Provision should be made for mobile toilets. Safe disposal of wastewater and solid wastes generated including piling debris during the construction phase should be ensured.
8.3	Regular supervision of the above and other measures should be in place all throughout the construction phase, so as to avoid disturbance to the surroundings.

9. Miscellaneous

S. No	EC Conditions
9.1	The proponent should provide notarized affidavit indicating the number and date of Environmental Clearance proceedings that all the conditions stipulated in the EC shall be scrupulously followed.
9.2	The project authorities shall inform to the Regional Office of the MoEFCC/SEIAA regarding commencement of activity.
9.3	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which, one shall be in the vernacular language within seven days, and in addition, the EC shall also be displayed on the project proponent's website permanently.
9.4	The proponent shall send a copy of the clearance letter to the concerned Grama Panchayath/District Panchayath/Municipality/Corporation/Urban Local Body and also to the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The Environmental Clearance shall also be uploaded on the website of the company.
9.5	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.
9.6	Consent to Establish and Consent to Operate from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives. Copies of statutory clearance obtained shall be enclosed along with first half yearly compliance report.
9.7	If blasting is involved in the preparation of site, the required clearances from the competent authorities should be obtained.
9.8	The environmental safeguards contained in the EIA Report should be implemented in letter and spirit and status of implementation of each one should be included in the half yearly compliance Report.
9.9	The proponent shall submit half yearly compliance reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the same on their website and shall update the same periodically. The compliance report shall be simultaneously sent to the Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India at Bengaluru and also to SEIAA.
9.10	The proponent shall co-operate with and provide facilities and documents/data to the Agencies including the Officials from the Regional of Ministry of Environment, Forests and Climate Change, Bengaluru during their inspection as part of monitoring the implementation of environmental safeguards.
9.11	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.

S. No	EC Conditions
9.12	In case of transfer of EC, the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.
9.13	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.
9.14	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal 1, if preferred, within a period of 30 days as prescribed under section 11 of the National Green Tribunal Act, 1997
9.15	The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightning etc. Building constructed in the runout area of landslide / rock fall area, shall be provided with suitable structures/ measures to prevent earth materials to hit the structure.
9.16	A First Aid Room shall be provided at the project site both during construction and operation phases of the project.
9.17	Unless provided otherwise, all the topsoil excavated during construction phase should be stored and re-used for backfilling/ horticulture/landscaping purposes within the project site.
9.18	The muck shall be disposed of only at approved sites with the approval of competent authority. The disposal should not create any adverse effect on the neighbouring communities and should be disposed taking necessary precautions for general safety and health of the public. Proof regarding the same shall be enclosed with the respective six monthly compliance reports.
9.19	Building design should cater to the differently-abled citizens

I. PROJECT DETAILS

Sl. No.	Particulars	Details
1.	Name & Address of the Project Proponent	Sri. Santhosh Koshy Thomas, Managing Director, The Kerala Industrial Corridor Development Corporation Limited, KINFRA Hi tech Park, HMT Colony P.O, Kalamassery, Ernakulam - 683503
2.	Re Sy Block No.	36
3.	Re- Sy. Nos.	202/33, 350/2, 347/1pt, 225/2, 350/3, 350/7, 354, 348/3, 352/1,2pt, 349/1pt, 350/4, 351/1, 351/2, 351/2, 351/2, 348/1, 225/2pt, 347/1, 347pt, 202/28pt, 347/1, 347/3pt,6, 350/5, 348/2pt, 346/3, 346/2, 353/1, 353/2, 353/4, 353/3, 346/1, 347/4pt, 347/4pt, 347/3pt, 202/7, 202/25, 202/10, 202/28pt, 104/4pt, 104/9pt, 202/8, 202/27, 202/11, 348/1pt, 225/2pt, 347/pt, 347pt, 202/8, 202/11, 348/2, 225/2, 348/2, 202/43, 348/2, 349/2pt, 352/1pt, 3, 202/1, 202/2pt, 202/4, 202/3, 202/12, 202/14, 202/8, 202/26, 202/29, 202/30, 202/11, 202/15, 350/6, 202/26, 202/11, 202/13pt, 362/2, 362/2, 362/2, 362/2, 358/2pt, 356pt, 356pt, 356pt, 356pt, 356pt, 356pt, 356, 358/7, 358/3, 357/pt, 356pt, 356pt, 121/6, 121/6, 354, 354/2, 358/4, 357pt, 354, 358/6, 356pt, 361/1, 361/1, 354, 354, 356pt, 361/1, 357/1pt, 114/3, 114/4, 114/5, 114/6, 115/7, 358/5, 358/2, 358pt, 361/3p, 355/1, 115/6, 355/1, 355/2, 345pt, 344pt, 344pt, 345pt, 345pt, 345pt, 119/11pt, 99/2, 98/6pt, 99/1, 118/13, 118/18, 118/19, 120/22pt, 119/1pt, 119/2pt, 120/18pt, 120/20pt, 120/20pt, 120/24, 119/4, 119/2pt, 343/2p, 343/2pt, 343/1pt, 343/2pt, 343/2pt, 98/2p, 98/6pt, 98/3pt, 119/11pt, 344, 345, 343/2pt, 343/2p, 343/1pt, 120/21pt, 120/20pt, 120/21pt, 343/1pt, 343/2pt, 227/2pt, 227/2pt, 226/1pt, 226/1pt, 119/13, 119/14, 119/6, 119/5, 119/12, 119/10, 98/4, 98/5pt, 115/3pt, 104/2pt, 104/5pt, 105/2pt, 106pt, 118/24, 118/16, 116pt, 117pt, 118/3, 118/14, 118/1, 118/2, 115/3p, 118/21pt, 118/23pt, 118/17pt, 118/12pt, 118/17pt, 118/12pt, 118/20, 118/20, 118/20, 116pt, 117pt, 116pt, 117pt, 104/9pt, 104/2p, 104/5pt, 104/2pt, 116pt, 117pt, 104/5pt, 104/5pt, 116pt, 357pt, 111/6, 112/3, 112/6, 112/2, 110/1, 110/18,11, 110/2, 112/1, 112/1, 112/2, 112/3, 112/2, 112/4, 112/4, 112/4, 112/5, 111/1, 111/1pt, 112/3, 111/2,3,4,5, 109/2pt, 3pt, 110/6pt, 110/9, 110/9, 110/2, 110/6, 110/6, 108/5, 109/4, 108/4, 108/5, 109/7, 109/2,3, 109/6, 110/6, 109/6, 109/5, 108/2, 108/5, 108/6
4.	Village	Kannambra I
5.	Taluk	Alathur
6.	District	Palakkad

7.	Extent (in Hectare)	126.74 Ha
8.	Project Cost	405.75 Crores
9.	Validity of EC	10 (Ten) years

II. EMP Details

a) Construction Phase

Activities	Capital Cost (Lakh)	Recurring Cost (Lakh)
Ambient Air Quality Monitoring	-	2.88
Noise Quality Monitoring	-	0.96
Water Quality Monitoring	-	1.2
Soil Quality Monitoring	-	1.2
Admin Cost- Monitoring and Statutory Compliance	-	4.3
Total	-	10.54
Environmental Programs		
Storage area for used/ damaged batteries etc.	2.0	-
Storage area for hazardous chemicals with spillage kit	0.5	-
Dust suppression (water sprinkling, wind curtains, tarpaulin sheets, etc.)	-	5.3
Total		7.8
Grand Total for Construction Phase		18.34

b) Operation Phase

Activities	Capital Cost (Lakh)	Recurring Cost (Lakh)/Year
Common Effluent Treatment Plant (CETP)	2,831.0	33.0
Solid Waste Management (SWM)	935.0	14.0
Environment Monitoring & Management	6.0	33.0
Green Belt development & maintenance	157.0	70.0
Biodiversity Conservation Plan	150.0	25.0
SCADA (to be implemented under ICT)	2,000.0	24.0
Environmental Compliance Management	-	35.0
Total	6079.0	234.0
Grand Total		6313.0

III.CER DETAILS

Sl No	Location	Activities to be performed	Execution period	Capex (Lakh)	Opex (Lakh)
1	Within the proposed IMC	Well rejuvenation plan and maintenance of wells	Post construction and during operation period	25	0.5
2	Kannambra-I	Rooftop rainwater harvesting facilities as per the allocated budget	During operation phase	63	5
3	Kannambra-I	Installation and maintenance of drinking water ATMs	During operation phase	20	1.5
4	Kannambra-I	Health Check-up Camps at PHC, as needed	Once during construction phase and yearly once during operation phase	45	8
5	Kannambra-I	Maintenance of village roads outside the IMC	Post monsoon season	-	3
Total				153	18
Grand Total				171	