

Single-Window Hub

and Virtuous Environmental



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

To,

The -1

TEKTONINFRA INDIA PRIVATE LIMITED

No. 31, U.P. Nest (G.F.A.), 8th Main Road, 11th Cross, Malleswaram, Bengaluru-560003. -560003

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

under the provision of EIA Notification 2006-regarding

Sir/Madam.

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/KL/INFRA2/431555/2023 dated 22 Jun 2023. The particulars of the environmental clearance granted to the project are as below.

EC24B038KL139972 1. EC Identification No.

2. File No. 2302/EC4/2023/SEIAA

3. New **Project Type** 4. Category В

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

6. Name of Project Environmental Clearance for the proposed Residential project to be

developed by M/s Tektoninfra India Pvt.

7. Name of Company/Organization TEKTONINFRA INDIA PRIVATE

> LIMITED **KERALA**

8. **Location of Project** 9. **TOR Date** N/A

The project details along with terms and conditions are appended herewith from page no 2 onwards.

(e-signed) Dr Rathan Ü kelkar IAS Date: 27/08/2024 **Member Secretary** SEIAA - (KERALÁ)



Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH.Please quote identification number in all future correspondence.

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

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

Sub: Environmental Clearance for the Residential Project of Sri. Binoj C.K., Managing Director, M/s Tektoninfra India Pvt. Ltd., No.31, U.P. Nest (G.F.A.), 8th Main Road, 11th Cross, Malleswaram, Bangalore – Granted – Orders issued.

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA

Proposal No. SIA/KL/INFRA2/431555/2023

File No. 2302/EC4/2023/SEIAA

Ref: 1. Application for EC received from Sri. Binoj C.K., Managing Director, M/s Tektoninfra India Pvt. Ltd on 22.06.2023.

- 2. Minutes of the 164th SEAC meeting held on 08th, 09th & 10th May 2024
- 3. Minutes of the 144th SEIAA meeting held on 28th and 29th June 2024

ENVIRONMENTAL CLEARANCE NO.191/B/2024

Sri. Binoj C.K., Managing Director, M/s Tektoninfra India Pvt. Ltd., No.31, U.P. Nest (G.F.A.), 8th Main Road, 11th Cross, Malleswaram, Bangalore, submitted an application vide paper read as 1st above for Environmental Clearance for the Residential Project at Re-Survey Nos. 121/7, 121/5, 121/6, 126/2, in Pantheerankavu Village, Olavanna Panchayat, Kozhikode Taluk, Kozhikode.

(i) **Project details**

Sl.			
No.	Description	Details	
	NT C41		
1	Name of the project	Residential project to be developed by Sri. Binoj C.K	
		Managing Director, M/s Tektoninfra India Pvt. Ltd	
2	Major Project/Activity	8(a) Building & Construction Project	
	Category		
2		G : B: : CV	
3	Name & Address of the	Sri. Binoj C.K.,	
	project Proponent	Managing Director,	
		M/s Tektoninfra India Pvt. Ltd.,	
		No.31, U.P. Nest (G.F.A.),	
		8 th Main Road, 11 th Cross,	
		Malleswaram, Bangalore-560003	
4	Project Location		
	a) Re- Survey No	121/7, 121/5, 121/6, 126/2	
	a) Re-Survey No	121/7, 121/3, 121/0, 120/2	
	b) Village	Pantheerankavu	
	c) Taluk	Kozhikode	
	d) District	Kozhikode	
	, = 33.233		
5	Total Built up area	64,816.14 sqm.	
	Total Built up alca	04,010.14 Sqiii.	
6	Total Plot area	1.35 Ha	
7	Project Cost (in Crore)	Rs. 96 Crores	

8	Facilities	272 Apartments & amenity facilities with supporting		
		infrastructure facilities		
9	Date of Field Inspection	21.11.2023		

ii) EMP Details

EMP during construction phase				
Sl.No.	Particulars	Approx.Recurring Cost/Annum	Approx.Capital Cost	
		Rs. In Lacs		
1.	Medical cum First Aid facility	0.5	1.5	
2.	Portable Toilets type mobile sanitation system & Portable STP	1.25	7.5	
3.	Supply of drinking water for the labourers	0.5	0.5	
4.	Barricading and Wind breakers	2.5	10.5	
5.	Sprinklers for suppression of dust	1.5	3.5	
6.	Solid waste from construction site	0.25	0.5	
	Total	6.5	24	

EMP during operation phase			
Sl.No.	Particulars	Approx.Recurring Cost/Annum	Approx.Capital Cost
		Rs. In Lakh	
1.	Sewage Treatment Plant with ultra filtration	30	110
2.	Solid Waste Management Plan	2.0	16.0
3.	Noise Control for D.G. Sets through acoustic enclosures	1.5	8.0
4.	Chimney for D.G.Sets Emission	0.25	4.0
5.	Green Area development (Tree plantation and grass Coverage)	2.50	25.0
6.	Rain Water Storage tank	3.5	35
7.	Solar energy power plant	8.0	182.0
Total		47.75	380.0

Environmental Monitoring Plan

Construction Phase	0.60 lakh per Annum
Operational Phase	1.50 lakh per Annum

iii) CER Details

Sl.No.	Activity	Amount	Period
		(Rs.in Lakh)	
1	Baby Memorial Junction - Civil work, landscaping,	50	1 st Year
	gardening with special plants, electrification and		
	beautification		
2	Mananchira Junction - Civil work, landscaping,	30	
	gardening with special plants, electrification and		
	beautification		
3	Commissioner office Junction - Civil work, landscaping,	25	2 nd Year
	gardening with special plants, electrification and		
	beautification		
4	Chinthavalappu Junction - Civil work, landscaping,	15	
	gardening with special plants, electrification and		
	beautification		
5	Rakthasakshi Mandapam - Civil work, landscaping,	40	3 rd Year
	gardening with special plants, electrification and		
	beautification		
6	Corporation Road Junction - Water fountain, Civil Work,	35	4 th Year
	Landscaping, gardening with special plants,		
	electrification and beautification		
	TOTAL	195	

- **2.** After due appraisal, in the 164th meeting, the SEAC recommended EC for 10 years subject to certain Specific Conditions in addition to the General Conditions.
- **3.** In the 144th SEIAA meeting, the Authority observed that SEAC had appraised the proposal based on the document received from the project proponent and the field inspection report. The Authority decided to accept the recommendation of SEAC and to issue Environmental Clearance for the Construction of Residential Project for a period 10 years (as per O.M. dated 13.12.2022) under Category 8 (a) "Building and Construction Projects" subject to the following Specific Condition in addition to the General Conditions:
 - 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.

- 2. The CER expenditure proposed and agreed by the Project Proponent should be expended through a separate bank account and the account statement and the beneficiary list should be uploaded along with Half Yearly Compliance Report.
- 3. The proposed STP of 200 KLD with MBBR technology and Tertiary Treatment should enable and ensure the re-use /recycle of treated water to the maximum extent and balance if any should be discharged through a series of soak pits for recharging the local ground water.
- 4. Local topography of the land profile should be maintained as such by avoiding deep cutting /filling.
- 5. 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).
- 6. Climate responsive design as per Green Building Guidelines in practice should be adopted.
- 7. The green building criteria notified in the GO (Ms) No. 39/2022/LSGD dated 25.2.2022 should be adopted.
- 8. Vegetation should be developed appropriately on the ground as well as over built structure such as roofs, basements, podiums etc.
- 9. Exposed roof area and covered parking should be covered with material having high solar reflective index.
- 10. Building design should cater to differently-abled citizens.
- 11. 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.

- 12. Design of the building should comply with Energy Building Code as applicable.
- 13. Energy conservation measures as proposed in the application should be adopted in total.
- 14. Buildings should be barricaded with GI sheets of 6 m. (20 feet) height so as to avoid disturbance to other buildings nearby during construction.
- 15. Construction work should be carried out during day time only.
- 16. All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed.
- 17. All vehicles carrying construction materials should be fully covered and protected.
- 18. All construction material of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
- 19. Grinding & cutting of building materials should not be done in open areas. Water jets should be used in grinding and stone cutting.
- 20. Occupational health safety measures for the workers should be adopted during the construction.
- 21. All vehicles during the construction phase should carry PUC certificate.
- 22. 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.
- 23. Green belt should be developed along the periphery of the site with indigenous species.
- 24. Usage of energy saving 5 star rating equipment such as BLDC fans and LED lamps should be promoted as part of energy conservation. At least 20% of the energy requirement shall be met from solar power.
- 25. Adequate measures should be adopted to harvest the rainwater.
- 26. 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.
- 27. Appropriate greening measures shall be adopted on the ground as well as over built structures such as roofs, basements, podiums etc. to mitigate urban heat island effect.

- 28. Open space shall be provided as per the building norms without being utilized for any other constructions.
- 29. 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.
- 30. 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.

Authority also suggested exploring the possibilities of providing solar power/equipments to at least 100 houses built under Govt. of Kerala LIFE mission in Kozhikode District through ANERT, without any change in the total amount proposed under CER component, with the approval of modified CER proposals by SEAC, to help the poor people and also to support the Environment friendly green initiatives of Govt. of Kerala.

- 31. 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.
- 32. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.

4. In this circumstance, Environmental Clearance is hereby accorded to the Residential Building Project of Sri. Binoj C.K., Managing Director, M/s Tektoninfra India Pvt. Ltd., No.31, U.P. Nest (G.F.A.), 8th Main Road, 11th Cross, Malleswaram, Bangalore, at Re-Survey Nos. 121/7, 121/5, 121/6, 126/2, in Pantheerankavu Village, Olavanna Panchayat, Kozhikode Taluk, Kozhikode, for a period 10 years (as per O.M. dated 13.12.2022) under Category 8(a) 'Building and Construction Projects' subject to specific conditions mentioned at para (3) above, the General Conditions for the building projects and the Green Conditions mentioned below.

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.
- **5.** The Environmental Clearance will also be subject to full and effective implementation of all the undertakings given in the Application Form, all the environmental impact mitigation and management measures undertaken by the Project Proponent in the documents submitted to SEIAA, and the mitigation measures and waste management proposal as assured in the Form 1 and Form-1A, Environment Management Plan and Conceptual Plan as submitted. The assurances and clarifications given by the Project Proponent in the application and related

documents will be deemed to be part of this Proceedings as conditions as undertaken by the proponent, as if incorporated herein.

- **6.** Validity of the Environmental Clearance will be for **10 years** from the date of issuance of 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.
- 7. Compliance with the conditions herein will be monitored by the State Level Environment Impact Assessment Authority or its agencies and also by the Regional Office of the Ministry of Environment and Forests, Govt. of India, Bangalore. Necessary assistance for entry and inspection by the concerned officials and staff should be provided by the project proponents. Instances of violation if any shall be reported to the District Collector, Kozhikode to take legal action under the Environment (Protection) Act 1986.
- **8.** The Half Yearly Compliance Report (HYCRs) with name of the project, EC No. and date, the period of submission with its contents, compliance report and environmental monitoring data & covering letter have to be uploaded in the Parivesh Portal as per O.M. F.No.IA3-22/1/2022-IA-III(E)-17264 dated 14.06.2022 and the website of the Project Proponent. Hardcopy of HYCRs shall not be acceptable.
- **9.** The given address for correspondence with the authorised signatory of the project is Sri. Binoj C.K., Managing Director, M/s Tektoninfra India Pvt. Ltd., No.31, U.P. Nest (G.F.A.), 8th Main Road, 11th Cross, Malleswaram, Bangalore-560003.

GENERAL CONDITIONS

- 1. The proponent should provide notarized affidavit indicating the number and date of Environmental Clearance proceedings that all the conditions stipulated in the EC shall be scrupulously followed.
- 2. The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available on the website of SEIAA www.seiaakerala.in. The advertisement should be made within 10 days

- from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
- 3. The proponent shall send a copy of the clearance letter to the concerned Grama Panchayath/District Panchayath/Municipality/Corporation/Urban Local Body and also to the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The Environmental Clearance shall also be uploaded on the website of the company.
- 4. The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40.
- 5. Consent to Establish and Consent to Operate from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives. Copies of statutory clearance obtained shall be enclosed along with first half yearly compliance report.
- 6. If blasting is involved in the preparation of site, the required clearances from the competent authorities should be obtained.
- 7. The stipulations/conditions issued by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, Solid Waste Management Rules, 2016 Plastic Waste Management and Handling Rules, 2016, Construction and Demolition Waste Management Rules 2016, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
- 8. The conditions specified in the EIA notifications 2006 and subsequent amendments, the specific directions given by SEIAA/SEAC should be followed under corporate Environment Responsibility. The activities carried out under CER should be listed with details in Half yearly compliance report along with Status of Implementation and certificates from the beneficiaries and photographs.
- 9. Safety measures should be implemented as per the Fire and Safety Regulations/SDMA guidelines.

- 10. The environmental safeguards contained in the EIA Report should be implemented in letter and spirit and status of implementation of each one should be included in the half yearly compliance Report.
- 11. Environment Monitoring Committee as agreed under the affidavit filed by the proponent should be formed and made functional. Environmental Monitoring Committee with defined functions and responsibility should foresee post operational environmental problems (Eg. development of slums near the site, increase in traffic congestion, power failure, increase in noise level, natural calamities, and increase in suspended particulate matter etc.) and action taken to solve these immediately with mitigation measures
- 12. Suitable avenue trees should be planted on either side of approach road and internal roads and open parking areas, if any. The proponent should plant trees at least 5 times of the loss of trees that has occurred while clearing the land for the project. The native flowering and fruiting species only shall be used for planting and planning should be done considering the nature of public use.
- 13. The project shall incorporate devices for solar energy generation and utilization to the maximum possible extent with the possibility of contributing the same to the power grid and consumption in future.
- 14. The proponent shall submit half yearly compliance reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by 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.
- 15. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time. Provision should be made for providing cooking facilities and supply of kerosene or cooking gas to the labourers.
- 16. The proponent shall co-operate with and provide facilities and documents/data to the Agencies including the Officials from the Regional of Ministry of Environment, Forests and Climate Change, Bengaluru during their inspection as part of monitoring the implementation of environmental safeguards.
- 17. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.

- 18. In case of transfer of EC, the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.
- 19. Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.
- 20. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environment Clearance under the provisions of the Environment (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- 21. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal 1, if preferred, within a period of 30 days as prescribed under section 11 of the National Green Tribunal Act, 1997.

General Conditions specific to Construction Phase

- 1. All statutory permissions including "Consent for Establishment" to STP/ETP, Solid waste management plant, Power Generator etc shall be obtained from Kerala State Pollution Control Board under Air Act and Water Act and Environment (Protection) Act. A copy shall be submitted to the Ministry/SEIAA before start of any construction work at the site.
- 2. The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightning etc. Building constructed in the runout area of landslide / rock fall area, shall be provided with suitable structures/ measures to prevent earth materials to hit the structure.
- 3. All required sanitary and hygienic measures should be in place before starting construction activities which are to be maintained throughout the construction phase.
- 4. A First Aid Room shall be provided at the project site both during construction and operation phases of the project.
- 5. Provide safe and healthy basic facilities for construction workers as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996
- 6. Adequate drinking water and sanitary facilities should be provided for construction workers at the site, Provision should be made for mobile toilets. Safe disposal of wastewater and solid wastes generated including piling debris during the construction phase should be ensured.

- 7. Unless provided otherwise, all the topsoil excavated during construction phase should be stored and re-used for backfilling/ horticulture/landscaping purposes within the project site.
- 8. Top soil excavated should not be used for reclaiming wetlands.
- 9. The muck shall be disposed of only at approved sites with the approval of competent authority. The disposal should not create any adverse effect on the neighbouring communities and should be disposed taking necessary precautions for general safety and health of the public. Proof regarding the same shall be enclosed with the respective six monthly compliance reports.
- 10. Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such materials must be secured so that they will not leach into the ground water.
- 11. Any hazardous waste generated during construction phase, should be disposed off to authorised/approved Waste Collectors as per applicable rules and norms with necessary approval of the Kerala State Pollution Control Board.
- 12. Soil and ground water samples shall be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- 13. Storm water control and its re-use measures as per CGWB and BIS standards shall be followed for various applications.
- 14. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to the applicable air and noise emission standards and should be operated only during non-peak hours. During the transportation of building materials/products, the vehicles shall be covered with suitable materials to prevent dust pollution.
- 15. Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be taken to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/KSPCB.
- 16. The diesel generator sets used during construction phase should be of low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards. The diesel required for operating DG sets shall be stored in underground tanks and

- if required, clearance from Chief Controller of Explosives shall be taken. DG sets shall be installed and made functional as per guidelines of KSPCB.
- 17. Ready mixed concrete must be used in building construction. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- 18. Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- 19. Separate dual plumbing line should be provided; one line for Toilet Flushing / Gardening / Vehicle wash and another separate line for other domestic uses, for ensuring reuse / recycle of treated waste water to the maximum extent possible.
- 20. Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- 21. Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- 22. Water efficient plumbing features should be adopted
- 23. Use of glass may be reduced by 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating on windows.
- 24. Design of the building should be in compliance to Energy Building Code as applicable
- 25. Roof should meet perspective requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil the requirement.
- 26. Opaque wall should meet perspective requirement as per energy Conservation Building Code which is proposed to be mandatory for all air conditioned spaces while it is optional for non-air conditioned spaces by use of appropriate thermal insulation material to fulfil requirement
- 27. Climate responsive design as per Green Building Guidelines in practice should be adopted
- 28. Building design should cater to the differently-abled citizens
- 29. Vegetation should be adopted appropriately on the ground as well as over built structure such as roofs, basements, podiums etc.
- 30. Exposed roof area and covered parking should be covered with material having high solar reflective index

- 31. Regular supervision of the above and other measures should be in place all throughout the construction phase, so as to avoid disturbance to the surroundings.
- 32. Fly ash should be used as building material in construction as per the provisions of Fly Ash Notification of September, 1999 and Amended as on 27th August 2003. (Applicable to Power Stations).
- 33. Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining the statutory clearances.

General Conditions specific to operation phase

- 1. The buildings should have adequate distance between them to allow movement of fresh air and passage of natural light and ventilation.
- 2. Sewage Treatment Plant (STP) should be installed and made functional as per KSPCB guidelines. On/site Treatment of Sewage and Sullage should be done with scientific method ,ensuring efficiency of treatment, ease in operation, sustainability and it should contain the units of primary, secondary, tertiary and quaternary type of treatment scheme. The installation of the STP should be certified by an independent expert and a report in this regard should be submitted to the Ministry/SEIAA before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. Treatment of 100% grey water shall be done through a decentralized treatment. Reuse of water shall be practiced for flushing process and garden purposes. Discharge of unused treated effluent shall conform to the norms and standards of the Kerala State Pollution Control Board. Necessary measures should be taken to mitigate the odour problem from STP.
- 3. Solid waste management plant shall be installed and made functional as per the guidelines of KSPCB. The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material. Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
- 4. Provide adequate Material Collection Facility (MCF) for storage of non-biodegradable waste

- including plastic waste and E waste, for handing over the same to Recyclers/ Local Body, as stipulated by Kerala State Pollution Control Board.
- 5. Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.
- 6. Low sulphur diesel shall be used as fuel in DG sets. The location of the DG sets may be decided in consultation with Kerala State pollution Control Board. DG sets should not be housed in sub basement levels.
- 7. Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time, the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- 8. The green belt of adequate width and density shall be raised preferably with local species along the periphery of the project site so as to provide protection against particulate matter and noise.
- 9. Weep holes shall be provided in the compound walls to ensure natural drainage of rain water during the monsoon period.
- 10. Rain Water Harvesting structures should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified elsewhere. Rain water harvesting measures for roof run-off and surface run-off, as per approved building plan should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 5 m above the highest ground water table.
- 11. The ground water level and its quality should be monitored regularly in consultation with State Groundwater Department/Central Ground Water Authority.
- 12. Traffic congestion near the entry and exit points from the roads adjoining the project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- 13. A Report on the energy conservation measures, conforming to energy conservation norms issued by Bureau of Energy Efficiency, should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the Ministry in three months time.

14. Energy conservation measures like installation of LED /CFLs/TFLs for the lighting the areas outside the building should be an integral part of the project design and should be in place before project commissioning. Used LED/CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Solar panels may be used to the extent possible.

Sd/-Administrator, SEIAA For Member Secretary, SEIAA

To.

Sri. Binoj C.K., Managing Director, M/s Tektoninfra India Pvt. Ltd., No.31, U.P. Nest (G.F.A.), 8th Main Road, 11th Cross, Malleswaram, Bangalore-560003

Copy to,

- 1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.(through e-mail: rosz.bng-mefcc@gov.in).
- 2. The Secretary to Government, Environment Department, Government of Kerala
- 3. The Director, Directorate of Environment & Climate Change, 4th Floor KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram, Kerala 695 001.
- 7. The Member Secretary, Kerala State Pollution Control Board, Trivandrum
- 8. The District Collector, Kozhikode
- 9. The Environmental Engineer, KSPCB, Kozhikode
- 10. The District Town Planner, Kozhikode
- 11 The Tahasildar, Kozhikode Taluk, Kozhikode
- 12. The Secretary, Olavanna Panchayat, Kozhikode
 - 13. The Chairman, SEIAA
 - 14. Website
 - 15.O/C/S/F