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State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India, under section 3(3) of E(P) Act, 1986)

No. SEIAA 49 CON 2013

Date: 28-01-2019

To,

Chief Development Officer & Chief Engineer
Karnataka Industrial Area Development Board (KIADB)
No. 49, 4th & 5th Floor, Khanija Bhavan
Race Course Road, Bangalore - 560 001.

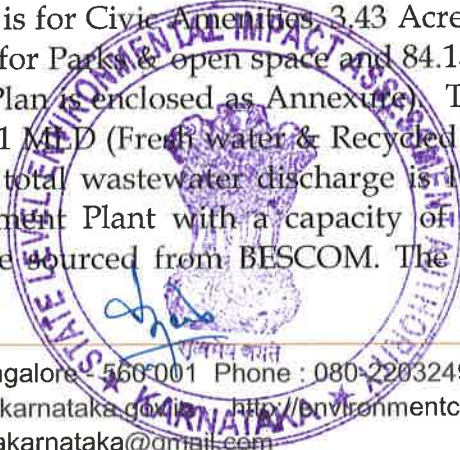
Sir,

Sub: Proposed "Formation of Housing Layout" project at Raichur Growth Centre, Survey Numbers 93/1, 93/2, 93/3, 94/1, 94/2, 95/1, 95/2, 114/2B, 115/2, 116/1B, 96/1, 96/2 of Yaramarus Village and Survey Numbers 267/1, 267/2, 267/3, 267/4, 267/5, 267/6, 268, 269, 270, 271/1, 271/2, 271/3, 272/1, 272/2, 273/A, 275, 276/1, 276/2, 276/3, 276/4, 277/1, 277/2, 284, 285, 286/1, 286/2, 307, 308, 309/1A, 309/1AA, 309/2, 309/3, 311, 312, 253(part), 266/4, 274/1, 274/2, 278/1, 310/1, 310/2 of Potagal Village, Raichur Taluk, Raichur District by M/s. Karnataka Industrial Area Development Board (KIADB) - Issue of Environmental Clearance - Reg.

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This has reference to your application received on 16th March 2013 addressed to SEIAA, Karnataka and subsequent letters addressed to SEIAA/SEAC Karnataka furnishing further information/seeking prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of the provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Application in Form 1, Form 1A, conceptual plan, EIA study report for proposed "Formation of Housing Layout" project and the additional clarifications furnished in response to the observations of the SEIAA and SEAC, Karnataka.

2. It is, inter-alia, noted that M/s. Karnataka Industrial Area Development Board (KIADB) have proposed for "Formation of Housing Layout" project on a plot area of 253.32 Acres (Suvey Number wise land break up is annexed). Out of 253.32 Acres of area, 115.37 Acres area is earmarked for Residential Development, 6.5 Acres area is for Commercial area, 17.41 Acres area is for Civic Amenities, 3.43 Acres of area is for Utility, 26.48 Acres area is earmarked for Parks & open space and 84.13 Acres area is for Traffic & Transportation (Layout Plan is enclosed as Annexure). Total estimated water requirement for the project is 2.1 MLD (Fresh water & Recycled water) will be met from Raichur Corporation. The total wastewater discharge is 1.68 MLD. It is proposed to construct Sewage Treatment Plant with a capacity of 2 MLD. Total power requirement 7500 KVA will be sourced from BESCO. The project cost is 123 Crores.

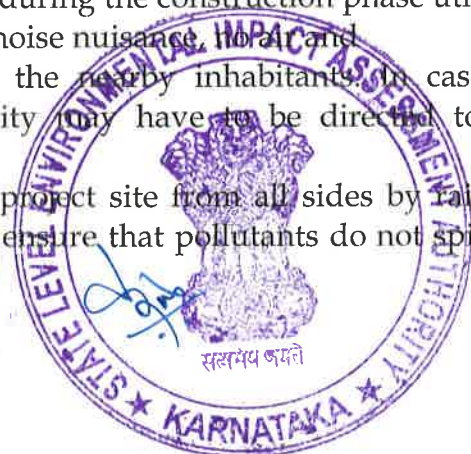


3. The project proposal has been considered by SEAC during the meeting held on 26th April 2013 for issue of ToRs. Accordingly the ToR was issued on 22nd May 2013. Subsequently the proponent vide letter dated 19-03-2016 requested to for extension of validity of ToR for one more year to complete the EIA report, as they are not able to finalize the draft EIA report due to delay in finalizing certain design details. The Authority during the meeting held on 31st March 2016 decided to extend the validity period for further period of one year ie., till 21.05.2017. Accordingly ToR was extended vide letter dated 01-07-2016. The proponent has submitted the EIA report on 11-05-2017 and subsequently on 14-03-2018 incorporating the correction.
4. Based on the information submitted by you, presentation made by you and your consultant. The State Level Expert Appraisal Committee (SEAC) examined the proposal in the meeting held on 13th, 14th & 15th March 2018 and has recommended for issue of Environmental Clearance.
5. The SEIAA during the meeting held on 26th June 2018 decided to close the file and delist from the pendency. Subsequently the proponent vide letter dated 02-11-2018 requested to re-open the file and to issue Environmental Clearance.
6. The SEIAA Karnataka during the meeting held on 10th January 2019 duly considering the relevant documents submitted by the project Authority, additional clarifications furnished in response to its observations and the appraisal and recommendation of the SEAC has decided to accord Environmental Clearance in accordance with the provisions of Environmental Impact Assessment Notification-2006 and its subsequent amendments, subject to strict compliance of the following terms and conditions:

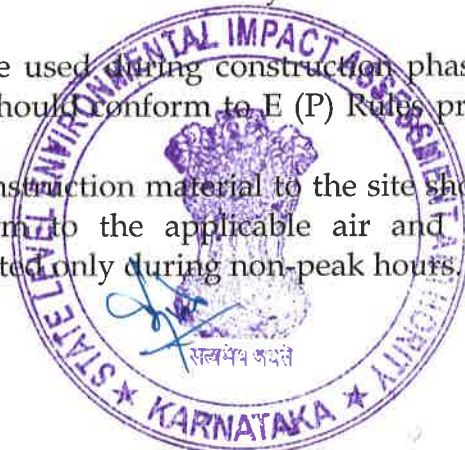
Part A- SPECIFIC CONDITIONS:-

I. Construction Phase:-

1. Set up an environment management cell and ensure that the cell manages/maintains all the environmental aspects such as sewage treatment, solid waste disposal, maintenance of green belt areas, etc., and in case the commercial space is sold/leased, then enter into an agreement with the prospective buyers to ensure that they maintain the cell and take care of all environment concerns during the operation phase of the project. In addition, sufficient fees should be levied so as to raise a corpus fund to maintain the Environment cell.
2. Appoint an Environment and safety engineer during the construction phase to take care of environment and safety aspects.
3. The project Authority should ensure that during the construction phase utmost care is taken to ensure that there is no noise nuisance, air and water pollution and no disturbance to the nearby inhabitants. In case of violation, the project construction activity may have to be directed to be stopped.
4. The project Authority should cover the project site from all sides by raising sufficiently tall barricades with sheets to ensure that pollutants do not spill to the surroundings.



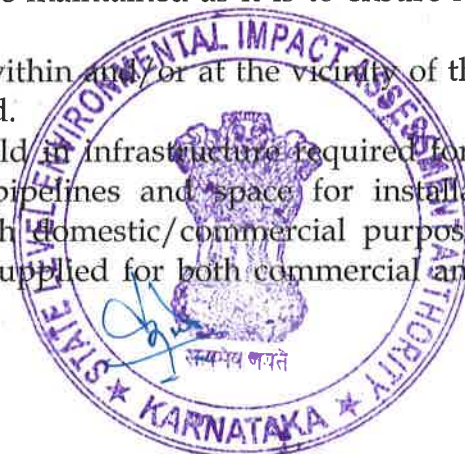
5. Provide at the main entrances bell gates, which are located at least 12' inside the boundary of the project to enable smooth flow of traffic on the main road leading to the entrance.
6. All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase. Sufficient number of toilets/bathrooms shall be provided with required mobile toilets, mobile STP for construction workforce.
7. A First Aid Room should be provided in the Project both during construction and operation of the project.
8. Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
9. Provision shall be made for the housing of construction labourers within the site with all necessary infrastructures. The housing may be in the form of temporary structures to be removed after the completion of the project. The facilities shall include the crèche.
10. Provision should be made for the supply of fuel (kerosene or cooking gas); utensils such as pressure cookers etc. to the labourers during construction phase.
11. All the labourers to be engaged for construction should be screened for health and adequately treated before engaging them to work at the site and detailed report submitted to SEIAA. Safety standards as per National Building Code (NBC) should be ensured.
12. For dis-infection of wastewater which is not meant for recycling for toilet flushing, use ultraviolet radiation and not chlorination. For treated wastewater meant for reuse for toilet flushing, disinfect by using chlorination.
13. All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
14. Disposal of muck, construction debris during construction phase should not create any adverse effect on the neighboring 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.
15. Soil and groundwater samples should be tested at the project site during the construction phase to ascertain that there is no threat to groundwater quality by leaching of heavy metals and or other toxic contaminants and report submitted to SEIAA.
16. Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the groundwater.
17. The diesel generator sets to be used during construction phase should be of low sulphur diesel type and should conform to E (P) Rules prescribed for air and noise emission standards.
18. Vehicles hired for bringing construction material to the site should be in good condition and should conform to the applicable air and noise emission standards and should be operated only during non-peak hours.



19. Ambient noise levels should conform to the 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 to reduce air and noise pollution during construction keeping in mind CPCB norms on noise limits.
20. Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on August 2003.
21. Ready mixed concrete must be used in building construction.
22. Storm water control and its re-use as per CGWB and BIS standards for various applications.
23. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.
24. No groundwater is to be drawn without permission from the Central /State Ground Water Authority.
25. Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
26. Treatment of 100% grey water by decentralized treatment should be done.
27. 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.
28. Use of glass shall not exceed 40% of exposed area to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.
29. The provision of Energy Conservation Building code, 2007 shall be fully complied with.
30. Roof should meet prescriptive requirement as per Energy Conservation Building Code, 2007 by using appropriate thermal insulation material.
31. Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, 2007 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 fulfill requirement.
32. Facilities such as ramps and separate parking shall be provided for the benefit of physically challenged.
33. The project shall be made operational only after necessary infrastructure/connection for water supply and sewerage line is provided and commissioned by the Competent Authorities
34. The project Authority shall maintain and operate the common infrastructure facilities created including STP and solid waste management facility for a period of at least 5 years after commissioning the project.
35. The project Authority shall incorporate a suitable condition in the Sale Agreement/Deed to be made with the buyers that the occupier/buyer holds the responsibilities jointly with other users to maintain common infrastructure facilities created including STP and solid waste management facility.
36. The Project Authority shall obtain the construction material such as stones and aggregates etc. only from the approved quarries and other construction material shall also be procured from the authorized agencies/traders.



37. The Project Authority shall obtain approval from the competent authorities for structural safety of the building due to earthquake, adequacy of fire fighting equipment etc. as per the National Building Code (NBC) including protection measures for lightening etc.
38. The project Authority shall ensure that no water bodies are polluted due to project activities.
39. Safety standards as per National Building Code (NBC), 2005 should be followed and ensured.
40. The project Authority shall ensure that the National Building Code, 2005 is fully complied with and adhered to.
41. The project Authority shall not use Kharab land if any for any purpose and keep available to the general public duly displaying a board as public property. No structure of any kind be put up in the Kharab land and shall be afforested and maintained as green belt only.
42. The project Authority shall obtain NOC before commencement of the construction activity and clearance after the completion of the construction from the Fire and Emergency Services Department, if Applicable.
43. The project Authority shall ensure the time specification prescribed by the Honourable High Court of Karnataka in WP. No. 1958/2011 (LB - RES - PIL) on 04.12.2012 for different activities involved in construction work.
44. The proponent shall take up the construction activity only after obtaining NOC or clearance from the competent authority for assured supply of water as the case may be.
45. The project Authority shall ensure that the construction activity is undertaken strictly in accordance with the approved site plan/layout drawing annexed to this Environmental Clearance letter. However, it is subject to compliance to the provisions of local authorities regarding setbacks, FAR etc. Shall be adhered to.
46. The existing water body, canals and rajakaluve and other drainage and water bound structures shall be retained unaltered with due buffer zone as applicable and maintained under tree cover.
47. The project authorities shall leave the appropriate buffer from the boundary of lake and on either side of the channel / nala and other water bodies as per the local planning Authority norms and this shall be free from any permanent structures. The buffer so maintained shall be planted with indigenous tree species such as Neem, Akash Mallige, Mahagoni, Honge, Kadamba Ficus, etc. and maintained as green belt.
48. The natural sloping pattern of the project site other than the area excavated for the purpose of construction of proposed layout shall remain unaltered and the natural hydrology of the area be maintained as it is to ensure natural flow of stormwater
49. Lakes and other water bodies within and/or at the vicinity of the project area shall be protected and conserved.
50. The Project Authority shall build infrastructure required for use of Piped Natural Gas (PNG) such as pipelines and space for installation of PNG distribution equipment for both domestic/commercial purpose and DG set and shall ensure that PNG is supplied for both commercial and for DG sets instead of other type of fuels.



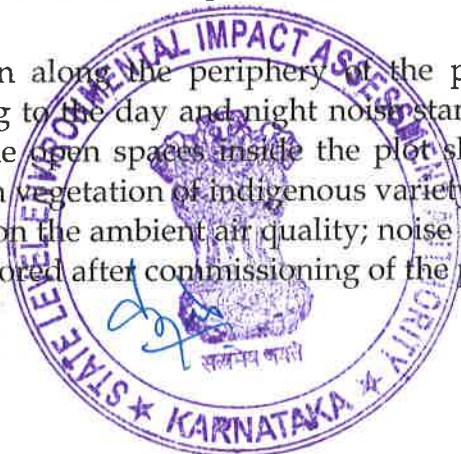
51. The project authorities shall undertake activities under Corporate Environment Responsibility (CER) with a total cost of not less than Rs. 2,10,00,000 towards providing drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas etc. within five year around the project site in accordance with the O.M. F. No.22-65/2017-IA.III dated 1st May 2018 and report be submitted to the Authority.

II. Operation Phase:-

1. The installation of Three Sewage Treatment Plant (STP) of capacity of 2 MLD should be carried out and the plant shall be got certified by an independent expert and a report in this regard should be submitted to the SEIAA immediately. Discharge of treated wastewater shall conform to the norms & standards of the Karnataka State Pollution Control Board. Treated wastewater should be used for flushing, gardening, etc. as proposed, using dual plumbing line.
2. Rainwater harvesting for roof run-off with appropriate capacity of tanks at ground level for rainwater collection and also surface run-off harvesting as per the plan submitted should be implemented with sufficient No's recharge pits and pre-treatment must be done to remove suspended matter, oil and grease before recharging the surface run off.
3. Ensure that the excess runoff rainwater from the greenbelt area, which is irrigated by treated water, does not get into recharge pits and contaminate the groundwater. Such excess flow should be safely let into the stormwater drains.
4. The solid waste generated should be properly collected and segregated insitu. The Biodegradable organic waste be composted by installing bio-converter in site and used. The non-biodegradable waste is disposed to the authorized recyclers.
5. Any hazardous waste including biomedical waste should be disposed-off as per the applicable Rules and norms with necessary approvals of the Karnataka State Pollution Control Board.
6. The project Authority shall develop a minimum of 33 % of the project area for green belt. If the area for increasing the green belt is not available then the Authority shall compensate by undertake planting in the civic amenity area such as school, play ground and avenue plantation in addition to the proposed in house area. The Authority shall undertake plantation of heavy foliage indigenous tree species such as Mahagoni, Honge, Neem, Akash Mallige, Kadamba, Ficus and Ashoka, etc at an espacement of 3 mts x 3 mts i.e. 1111 plants/hectare.

The green belt design along the periphery of the plot shall achieve attenuation factor confirming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous variety.

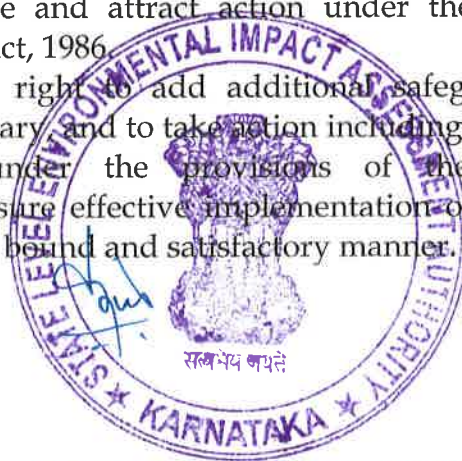
7. Incremental pollution loads on the ambient air quality; noise and water quality should be periodically monitored after commissioning of the project.



8. Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for the complex should be provided. Details in this regard should be submitted to the SEIAA.
9. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
10. A Report on the energy conservation measures confirming to energy conservation norms finalized by the Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the SEIAA in three months time.
11. All toilets should have dual plumbing line for using treated water and no wastewater is discharged from the unit.
12. The Environment Management Plan including the human health and Safety management plan and Fire Safety and Protection plan proposed by the Authority shall be strictly implemented.

PART - B. GENERAL CONDITIONS:

1. The issuance of Environment Clearance doesn't confer any right to the project Authority to operate/run the project without obtaining Statutory clearances/sanctions from all other concerned authorities.
2. The Environmental safeguards contained in the application should be implemented in letter and spirit.
3. All commitments made by the Authoritys in their application, and subsequent letters addressed to the SEAC/SEIAA should be accomplished before the construction work of the project is completed.
4. Half yearly monitoring reports should be submitted to the SEIAA and the APCCF, Regional Office, MoEF, Bengaluru.
5. Officials from the Department of Environment and Ecology, Bengaluru / APCCF, Regional Office of MoEF, Bengaluru who would be monitoring the implementation of Environmental safeguards should be given full cooperation, facilities and documents/data by the project Authority during their inspection. A complete set of all the documents submitted to MoEF / SEIAA should be forwarded to the APCCF, Regional Office of MoEF, Bengaluru / Department of Environment and Ecology, Bengaluru.
6. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
7. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environmental (Protection) Act, 1986.
8. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environmental 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.



State Level Environment Impact Assessment Authority-Karnataka
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SEIAA 49 CON 2013

Proposed "Formation of Housing Layout" Project
at Raichur Growth Centre of KIADB

- 9: All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the competent authorities.
10. The project Authority 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 with the Karnataka State Pollution Control board and may also be seen on the website of the SEIAA, Karnataka at <http://seiaa.karnataka.gov.in> or <http://environmentclearance.nic.in> The advertisement should be made within 7 days from the day of issue of the clearance letter and a copy of the same should be forwarded to the APCCF, Regional Office of the MoEF at Bengaluru/ Department of Environment and Ecology, Bengaluru.
11. The project Authority should display the conditions prominently at the entrance of the project on a suitable size board for the information of the public.
12. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
13. These stipulations would be enforced among others under 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.
14. Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project Authority if it is found that construction of the project has been started without obtaining environmental clearance.

Yours faithfully,



(N.L.Shanthakumar)
Member Secretary,
SEIAA, Karnataka.

Copy to:

1. The Secretary, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi - 110 003.
2. The Member Secretary, Karnataka State Pollution Control Board, Bengaluru.
3. The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17th Main Road, Koramangala II Block, Bengaluru - 560 034.
4. Guard File.