



No. SEIAA/GUJ/EC/8(a)/2705/2015

Date: 30.06.2015

BY R.P.A.D
Time Limit

Sub: Environment Clearance for the Building Construction Project- "Aarohi Elysium" at S.No.464, O.P.No.150, F.P.No.150+157/1, T.P. S. No.3, Moje:Bopal, Ta:Dascroi, Dist: Ahmedabad Proposed by M/s. Siddhi Developers.....Construction project in Category 8 (a) of Schedule annexed with EIA Notification dated 14/9/2006.

Dear Sir,

This has reference to your application along with Form-I, Form-1 A dated 28/07/2014, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006. The project was scheduled for hearing in the SEAC meeting held on 18/10/2014. The project proponent submitted additional information / documents vide letter dated 02/02/2015 to the SEAC.

The proposal is for Environmental Clearance for the **Building Construction Project- "Aarohi Elysium"** at **S.No.464, O.P.No.150, F.P.No.150+157/1, T.P. S. No.3, Moje: Bopal, Ta:Dascroi, Dist: Ahmedabad Proposed by M/s. Siddhi Developers** This is a new building construction project having plot area of 15,915.0 m² and the proposed built up area of 65,101.61 m². As the built up area is >20,000 m² and <1,50,000 m², it falls in the category 8(a) of the Schedule of EIA Notification, 2006.

The project will comprise of total 10 nos. of buildings blocks (9 residential +1 commercial) total 494 nos. of residential units, 32 shops and 48 offices. Scope of the residential buildings in the project will be Basement + H.P. + 14 floors, scope of the commercial building will be Basement + Ground floor + 4 floors. Maximum height of the buildings will be 48.5 m.

The project activity is covered in 8(a) and falls in Category 'B'. Since the proposed project is in item no.8 of the EIA notification, 2006, it does not need Public Consultation as per Para 7(i) III. Stage (3) (d) – Public Consultation of EIA Notification, 2006.

The SEAC, Gujarat had recommended the project vide their letter dated 27.05.2015 to grant Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on 10.03.2015. The proposal was considered by SEIAA, Gujarat in its meeting held on **26.06.2015** at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

A. CONDITIONS:

A.1 CONSTRUCTION PHASE:

A.1.1 WATER:

1. Fresh water requirement during the construction phase shall be 20.0 KL/day and it shall be met through the local water tanker suppliers. No ground water shall be tapped during the construction phase.
2. Sewage generated during the construction phase shall be disposed off through the septic tank - soak pit.
3. Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.

A.1.2 AIR:

4. Peripheral barricading shall be done to prevent dust emission spreading outside the project premises.
5. Water sprinkling shall be done in vulnerable areas for controlling fugitive emission.
6. Material shall be covered during transportation to avoid the fugitive emission.

7. The roads inside the project area and roads connected to the main road shall be paved or shall be water sprinkled to avoid the fugitive emissions during construction.
8. The ambient air quality shall be monitored in and around the project area during construction phase.
9. The construction materials and debris shall be properly stored and handled to avoid negative impacts such as air pollution and public nuisances by blocking the roads and public passages.

A.1.3 SAFETY:

10. Structural design of the project shall strictly adhere to the seismic zone norms for earthquake resistant structures.
11. During construction Personal Protective Equipment shall be provided to the construction workers and its usage shall be ensured and supervised.
12. First Aid Box shall be made readily available in adequate quantity at all the times.
13. Training shall be given to all workers on construction safety aspects.
14. The project proponent shall strictly comply with the Gujarat Building and other Construction Workers Act & Rules.

A.1.4 NOISE :

15. The overall noise level in and around the project area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act and Rules.
16. The noise generating equipments, machinery and vehicles shall not be operated during the night hours and shall be maintained properly to avoid generation of high noise due to lack of wear and tear.
17. Use of diesel generator sets during construction phase shall be strictly with acoustic enclosure and shall confirm to EPA Rules for air and noise emission standards.

A.2. OTHER CONDITIONS :

18. The safe disposal of wastewater and solid wastes generated during the construction phase shall be ensured.
19. The NBC norms shall be strictly adhered to.
20. Barricade of adequate height shall be provided on the periphery of the construction site with adequate signages.
21. All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.
22. The debris generated during the construction work shall be re-used in filling and resurfacing of the area and recyclable scrap shall be sold to vendors.
23. Vehicles hired for bringing construction material at site shall be in good conditions and confirm to applicable air and noise emission standards and shall be operated only during day time and non-peak hours.
24. Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paving blocks and Ready mix concrete [RMC] in the project.
25. Necessary sanitary, hygiene and first aid measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.
26. Adequate accommodation, drinking water, sanitary facilities, first aid center, utensils and cooking fuel shall be provided for construction workers at the site.
27. Adequate care shall be taken to see that the surrounding landscape at the project site is not environmentally degraded.
28. Fly ash shall be used in the construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986.
29. Used cement bags, waste paper and cardboard packing material shall be sold off to recyclers. Residual steel scrap shall be collected at site and sold to recyclers.
30. Only lead free paints shall be used in the project.

A.3 OPERATION PHASE:

A.3.1 WATER

31. Total water requirement during the operation phase shall be 404.0 KL/day, out of which fresh water requirement of 394.0 KL/day shall be met through water supply system of AUDA and the water requirement of 10.0 KL/day for gardening shall be met through treated sewage. No ground water shall be tapped during the operation phase. Metering of the water shall be done and its records shall be maintained.
32. Sewage generation during operation phase shall be 315 KL/day and it shall be treated in a proposed onsite Sewage Treatment Plant.
33. The unit shall install and efficiently operate STP of adequate capacity for treating domestic sewage to be generated during operation phase to achieve the GPCB norms at the STP outlet. Treated sewage conforming to GPCB norms shall be utilized for gardening purpose within the premises and for irrigation on the median of the nearby AUDA road. Remaining quantity of treated sewage shall be disposed off through drainage line to be provided by AUDA.

34. A proper logbook of STP operation and also showing the quantity of treated sewage utilization shall be maintained and furnished to the GPCB from time to time.
35. Low water consuming devices shall be provided. Fixtures for showers, toilet, flushing and drinking shall be of low flow either by use of aerators/ diffusers or pressure reducing devices etc.
36. No bore well shall be constructed and existing bore well/s (if any) shall be either sealed or converted into the recharge well upon completion of the construction work.
37. Rain water harvesting from rooftop and paved areas and ground water recharge through 4 nos. of percolation wells shall be carried out as per the details submitted. Before recharging the run off, pre-treatment must be done to remove suspended matter.

A.3.2 AIR:

38. D. G. sets (3 x 35 KVA) proposed as back up power shall be of enclosed type and confirm to prescribe standards under EPA rules. Necessary acoustic enclosures shall be provided at diesel generator set to mitigate the impact of noise.
39. The gaseous emissions from the D.G. Sets shall conform to the standards prescribed by GPCB. At no time, the emission levels shall go beyond the stipulated standards.
40. The stack height of the D.G. sets shall be equal to the height needed for the combined capacity of all proposed D.G. sets.

A.3.3 SOLID WASTE:

41. The solid waste generated shall be properly collected and segregated at source. The recyclable material shall be sold to vendors whereas other garbage shall be disposed off properly as per the provisions made by the AUDA.
42. Used oil shall be sold only to the registered recycler.
43. The project must strictly comply with the rules and regulations with regards to handing and disposal of Hazardous waste in accordance with the Hazardous Waste (Management, Handling and Transboundary) Rules 2008. Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.

A.3.4 SAFETY :

44. The planning, design and construction of all buildings shall be such as to ensure safety from fire.
45. Fire fighting facilities like fire extinguishers-149 nos. of CO₂ type (4.5 kg capacity) & 149 nos. of DCP type (5 kg capacity), wet riser, yard hydrant, automatic sprinkler system (226 nos.), manually operated electric fire alarm system (hooter-149 nos. & MCP 149 nos.), automatic detection & alarm system, underground static fire water storage tank of 100 KL capacity, terrace water storage tank of 20 KL etc. shall be provided as proposed.
46. Compulsory Training to the staff for the first aid and fire fighting along with regular mock drill shall be made as an integral part of the emergency management plan of the project.
47. Underground fire water storage tanks and terrace water storage tanks of adequate capacity shall be provided as proposed. Adequate provision shall be made to ensure that water from the Fire Water Tank shall not be used for any other purpose.
48. Dedicated power back up system shall be provided in the case of power failure & emergency of fire water pumps.
49. First Aid Boxes shall be made readily available in adequate quantity at all the times.
50. Main entry and exit shall be separate and clearly marked in the facility.
51. Necessary emergency lighting system along with emergency power back up system shall be provided. Further, necessary auto glow signage at all appropriate places shall be provided to guide the people towards exits and assembly points during emergency.
52. All the staircases and lifts shall open out at ground level from the highest point of building [with access from each floor] for emergency evacuation. Two staircases shall be provided in each building having floor area more than 500 m² on each floor.
53. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.
54. In basement at least two separate ramps of adequate width and slope shall be provided, located preferably at opposite ends.
55. Provision for adequate air changes per hour in the basement shall be made so as to avoid build up of CO in the area.
56. Car park exhaust system equipped with CO (Carbon Monoxide) sensor shall be provided to ensure operation of exhaust fans as CO concentration levels.

A 3.5 NOISE :

57. The acoustic enclosures shall be installed at all noise generating equipments such as DG set etc to mitigate the impact of noise.
58. The overall noise level in and around the project area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act and Rules.

A3.6 PARKING / TRAFFIC CONGESTION:

59. Parking space of 18,298.97 m² [12,666.81 m² in basement (7,255.32 m² in basement + 5,411.49 m² as mechanical parking in basement)+ 3,376.12 m² in hollow plinth + 2,256.04 m² as open surface parking] shall be provided as proposed.
60. The area earmarked for the parking shall be used for parking only. No other activity shall be permitted in this area.
61. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided.
62. No public space including the service road shall be used or blocked for the parking.

A 3.7 ENERGY CONSERVATION:

63. Energy conservation measures like maximum use of CFL lights, solar lighting in common sunlit areas, use of variable frequency drive motors shall be implemented as proposed.
64. The project proponent shall install energy efficient devices, appliances, motors and pumps conforming to the Bureau of Energy Efficiency norms.
65. The transformers and motors shall have minimum efficiency of 85 %.
66. Only variable frequency motor drives shall be used in the project.
67. Solar lights shall be provided in the open sunlit areas.
68. Use of glass shall be minimal to reduce the heat island effect as well as to reduce the electricity consumption.

A 3.8 GREEN BELT :

69. Green belt area of 3,125.0 m² comprising of tree covered area of 1,861.07 m² and 1, 264.0 m² lawn covered area shall be developed as proposed. The other open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous tree species.
70. The area earmarked as green area shall be used only for greenbelt and shall not be altered for any other purpose.
71. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the lawns and other green area including tree plantation.

B. OTHER CONDITIONS :

72. All the statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Airports Authority of India etc., if applicable, shall be obtained by the project proponent from the competent authorities.
73. The project proponent shall strictly comply with the Gujarat Building and other Construction Workers Act & Rules as well as Gujarat Lifts & Escalators Rules.
74. The project proponent shall ensure maximum employment to the local people.
75. The project management shall also comply with all the environment protection measures, risk mitigation measures and safeguards proposed by them.
76. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
77. No further expansion or modifications in the project likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
78. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and Hazardous Waste (Management Handling and Transboundary) Rules, 2008 along with their amendments and rules.
79. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.

80. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
81. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
82. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
83. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
84. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
85. This environmental clearance is valid for seven years from the date of issue.
86. 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.

With regards,
Yours sincerely,



(DARPANA DHIMMAR)
Member Secretary

Issued to:

Mr. Deepak B. Patel (Partner)
M/s Siddhi Developers,
Aarohi Complex, Nr. Sun City,
200 ft. Ring road,
Bopal, Ahmedabad-380058.

Copy to:-

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
6. Select File


(DARPANA DHIMMAR)
Member Secretary