

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Poura Bhavan, Block 'FD'-415A, 4th Floor, Sector – III,

Salt Lake, Kolkata – 700 106

Telefax No. 033 2337 0268

Website : www.environmentwb.gov.in

No. 1497 /EN/T-II-1/075 /2014

Date : 19 / 06 /2015

To

M/s. Rameswara Infra Space LLP & Constituted Attorney of

M/s. Telequip Barter (P) Ltd. & Ors.

GB Rameswara Apartment, 19A, Sarat Bose Road

Kolkata – 700 020

SUB. : Environmental Clearance for the proposed residential complex " Rameswara River View" by M/s Rameswara Infra Space LLP and Constituted Attorney of M/s Telequip Barter (P) Ltd. & Ors. at Dag nos. 46, 46/997, 38/1680, 38/1681, 46/1682; Khatian no. – 3947 to 3956, 4032, 4043 to 4051, 4058, 4076 to 4082, 4084 to 4086, 4088 to 4094, 4119 to 4134, 4163 to 4167, 4202, JL no. 02, Municipality Holding no. 197, Mouza – Monirampur, S. N. Banerjee Road, Barrackpore, Under North Barrackpore Municipality, Ward no. 22, PS – Barrackpore, Dist – North 24 Pgs., West Bengal.

Sir,

This has a reference to your application dated 15/09/2014 and subsequent communications for environmental clearance for the proposed residential complex "Rameswara River View" by M/s Rameswara Infra Space LLP and Constituted Attorney of M/s Telequip Barter (P) Ltd. & Ors. at Dag nos. 46, 46/997, 38/1680, 38/1681, 46/1682; Khatian no. – 3947 to 3956, 4032, 4043 to 4051, 4058, 4076 to 4082, 4084 to 4086, 4088 to 4094, 4119 to 4134, 4163 to 4167, 4202, JL no. 02, Municipality Holding no. 197, Mouza – Monirampur, S. N. Banerjee Road, Barrackpore, Under North Barrackpore Municipality, Ward no. 22, PS – Barrackpore, Dist – North 24 Pgs., West Bengal.

The proposal has been examined and processed in accordance with the EIA Notification, 2006. It is noted that the proposed proposal is a residential complex comprising of 10 blocks of G+4 storied building comprising of 359 no. of flats.

It is noted that the salient features of the project, for which Environmental clearance has been considered are as follows :

Land Area	: 23742.475 sq.m. (2.1407 acres)
Gifted area	: 902.44 sq.m.
Latitude & Longitude	: 22°45'43.5" N & 88°20'08.3"E
No. of flats	: 344 nos., servants-16 nos.
Expected Population	: 2400 (permanent – 1800, temporary - 600)
Total Water requirement	: 350 KLD (Operation Stage)
Fresh water requirement	: 210 KLD (Source-Ground water)
Wastewater generated	: 230 KLD (to be treated in STP)

Conditions for Environmental Clearance of proposed residential complex " Rameswara River View" by M/s Rameswara Infra Space LLP and Constituted Attorney of M/s Telequip Barter (P) Ltd. & Ors. at Dag nos. 46, 46/997, 38/1680, 38/1681, 46/1682; Khatian no. - 3947 to 3956, 4032, 4043 to 4051, 4058, 4076 to 4082, 4084 to 4086, 4088 to 4094, 4119 to 4134, 4163 to 4167, 4202, JL no. 02, Municipality Holding no. 197, Mouza - Monirampur, S. N. Banerjee Road, Barrackpore, Under North Barrackpore Municipality, Ward no. 22, PS - Barrackpore, Dist - North 24 Pgs., West Bengal.

- iii. The scaffolds, stairs and platforms for construction works and the workers must be secured as far as possible to prevent any accident.
- iv. Health and safety of the workers should be ensured during construction. Personnel protective equipment like shoes, helmets, earmuffs, earplugs etc. should be provided to the workers. For vibration control damped tools must be used and the number of hours that a worker uses them must be limited. The Management must ensure that the workers put them while doing work that needs such protection, if any.
- v. Rest and convenience shelter for workers with crèche facility, if required, particularly for women, must be provided with proper toilet facilities.

Steps to avoid disturbance during construction:-

- i. All the topsoil excavated during construction activities should be under cover/stored by retaining walls for use in horticulture / landscape development within the project site. Adequate erosion and sediment control measures to be adopted before ensuing construction activities.
- ii. Prior permission should be obtained from the competent authority for demolition of the existing structure, if any. Waste recycling plans should be developed for prior to beginning of demolition and construction activity. The plans should identify wastes to be generated and designate handling, recycling and disposal method to be followed.
- iii. Disposal of muck including excavated material during construction phase should not create any adverse effects on the neighbouring communities and disposed off taking the necessary precautions for general safety and health aspects.
- iv. Diesel generator sets during construction phase should have acoustic enclosures and should conform to E(P) Rules prescribed for air and noise emission standards.
- v. Vehicles / equipment deployed during construction phase should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- vi. Ambient noise levels should conform to residential standards both during day and night. Fortnightly monitoring of ambient air quality (SPM, SO₂ and NO_x) and equivalent noise levels should be ensured during construction phase.
- vii. Construction spoils including bituminous material and other hazardous materials including oil from construction equipments must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water. If necessary, oil trap should be installed where there is deployment of heavy machineries.
- viii. Regular supervision of the above and other measures should be in place all through the construction phase so as to avoid disturbance to the surroundings. Discomfort in the neighbourhood due to the proposed project activity should be minimized as far as practicable.
- ix. Loading and unloading operations should not be carried out in open areas and should be preferably done during day time, if there is any major settlement in the surrounding areas. The construction activities including Piling work, Operation of Ready Mix Plant and Vibrator etc. should not be carried out during the night time (10 P.M. to 6 A.M.). Only essential operations, if any, may be carried out for a limited period during nighttime.
- x. The proponent must ensure that no driven piles shall be proposed for this project, if there is any major settlement in the surrounding areas.
- xi. 15m-screen and adequate sprinkler arrangement shall be provided. Care should be taken to keep all material storages adequately covered and contained so that they are not exposed to winds.
- xii. Use of Ready-Mix concrete is recommended for this project.
- xiii. Adequate measures to be adopted to avoid wastage of water for curing of concrete structures.
- xiv. Adequate mitigative measures should be adopted to control dust emissions, noise and vibrations from construction activities. Vehicles and construction machineries should be properly maintained. Vehicles should conform to Pollution under control (PUC) norms.
- xv. Locally available materials with less transportation cost should be used preferably.

Conditions for Environmental Clearance of proposed residential complex "Rameswara River View" by M/s Rameswara Infra Space LLP and Constituted Attorney of M/s Telequip Barter (P) Ltd. & Ors. at Dag nos. 46, 46/997, 38/1680, 38/1681, 46/1682; Khatian no. - 3947 to 3956, 4032, 4043 to 4051, 4058, 4076 to 4082, 4084 to 4086, 4088 to 4094, 4119 to 4134, 4163 to 4167, 4202, JL no. 02, Municipality Holding no. 197, Mouza - Monirampur, S. N. Banerjee Road, Barrackpore, Under North Barrackpore Municipality, Ward no. 22, PS - Barrackpore, Dist - North 24 Pgs., West Bengal.

- iii. The proponent should plant at least **335** trees. The landscape planning should include plantation of native species. The species with heavy foliage, and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. Indicative list of species is given at Annexure-I.
- iv. Provision for Roof Top Gardening is mandatory.

Water supply:-

- i. Water requirement during construction phase shall be met from Ground water as per permission obtained as per the West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.

Sewage Treatment Plant:-

- i. As per the proposal submitted by the proponent waste water shall be treated in septic tank to soak pit. Construction waste water to be collected in sedimentation trap with adequate retention time and to be reused.

Storm water Management & Mitigation of Heat Island Effect:-

- i. Imperviousness of the site shall not exceed the NBC (National Building Code 2005) standards for imperviousness factor applicable to different types of area.
- ii. Total paved area of site under parking, roads, paths or any other use should not exceed 25% of the site area.
- iii. Minimum 50% of paved area on site should have pervious paving or shaded under vegetation or topped with finish having solar reflectance of 0.5 or higher.
- iv. Adequate storm water drainage network to be designed for the project without disturbing the surrounding settlements. Storm water management plan should be implemented so as to prevent sudden discharge of excessive volumes of storm water to the receiving waters thus reducing the shock load on the drainage system and impact on receiving water body.
- v. Disruption to the natural hydrology of the site should be minimised by reducing impervious cover, increasing on site infiltration and managing storm water run off.
- vi. Heat island effect should be minimized by use of shading or reflective surfaces, mainly the surfaces that contribute to the heat island effect i.e. streets, sidewalks, parking lots and buildings. White roofs should be provided in the buildings.

Rain Water Harvesting Scheme:-

- i. The proponent must follow the Rainwater Harvesting Guidelines of the State Expert Appraisal Committee (SEAC) available in the website (<http://www.wbpcb.gov.in>).
- ii. The proponent must collect rainwater from roof-top catchments and reuse for various purposes after necessary cleaning. Adequate retention time and storage provisions should be provided for harvesting rainwater.
- iii. Adequate firefighting storage should be provided as per norms.

Municipal Solid Waste Management :-

- i. Adequate provision shall be made for storage and segregation of solid waste and adequate means of access shall be provided.

Transport Management: -

- i. Both internal and external traffic planning and management should be adequate to ensure uninterrupted traffic movement in the area during construction as well as operation phase.
- ii. The design of service road and the entry and exit from the project area should conform to the norms & standards of competent authority for traffic management. Bell mouth type arrangement should be made at the entry & exit. Proper traffic management plan should be adopted in consultation with Traffic authorities.
- iii. Clarified Wastewater will be used for sprinkling water on the unpaved internal roads on a regular basis.

Conditions for Environmental Clearance of proposed residential complex " Rameswara River View" by M/s Rameswara Infra Space LLP and Constituted Attorney of M/s Telequip Barter (P) Ltd. & Ors. at Dag nos. 46, 46/997, 38/1680, 38/1681, 46/1682; Khatian no. - 3947 to 3956, 4032, 4043 to 4051, 1058, 4076 to 4082, 4084 to 4086, 4088 to 4094, 4119 to 4134, 4163 to 4167, 4202, JL no. 02, Municipality Holding no. 197, Mouza - Monirampur, S. N. Banerjee Road, Barrackpore, Under North Barrackpore Municipality, Ward no. 22, PS - Barrackpore, Dist - North 24 Pgs., West Bengal.

- v. At least 25 KW of solar power to be generated and utilized in common area lighting etc. in addition to solar street lights.

Transport Management: -

- i. Use of public mode of transportation should be promoted. Use of the least polluting type of transportation should be promoted. Adequate parking space should be provided as per norms.
- ii. Pathways should be covered or shadowed by tree canopy as far as practicable. Transport system should be such that traffic will be calm in neighbourhoods. Traffic within the project site should be restricted by regulation. Adequate vertical and horizontal clearances of overhead electric power and telecommunication lines should be provided.

Solid Waste Management:-

- i. The proponent should abide by the Municipal Solid Wastes (Management and Handling) Rules, 2000. The proponent must develop the Solid Waste Management and Disposal Scheme ensuring storage and segregation of biodegradable and non-biodegradable wastes. The solid waste is to be disposed off in consultation local panchayat.
- ii. The proponent shall install onsite compost plant for treatment of biodegradable part of Municipal Solid Waste. Sufficient space for installation of onsite compost plant should be provided and operation of the compost plant considering full occupancy of the apartments i.e. the capacity of garbage disposal unit should be selected accordingly.
- iii. The handling agency should also take care of the recyclable wastes like plastic, paper board, glass etc. and also inert materials in case of respective municipal authorities want to avoid any kind of waste from the housing complex.
- iv. The proponent should have sufficient area for horticulture where the compost generated can be used as fertilizer and soil supplement and also have arrangement for sale of excess quantity of compost.
- v. Provision for treatment of leachate generated and odor control in onsite compost plant should be made.
- vi. Non-recyclable inorganics and rejects will be disposed off through panchayat as proposed.
- vii. The proponent should provide different coloured bins for different categories of waste and ensure complete segregation of biodegradable and non-biodegradable wastes. The solid waste from different collection and storage bins should be finally collected at transfer stations. Further segregation will be done at transfer stations to collect recyclables such as plastic, polythene, glass, metals, textiles, rubbers, leathers, paper etc. Separate compartments shall be provided for each type of recyclables.
- viii. The proponent should abide by the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008. Collection and storage of hazardous wastes during Pre-construction and Post-construction activity should be planned properly. The expected hazardous wastes should be disposed off separately as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
- ix. Spent oil from DG Sets should be stored in HDPE drums in isolated covered facility and disposed off as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008. Spent oil from DG Sets should be disposed off through registered recyclers only.

Others :-

- i. The implementation of Environmental Management Plan should be carried out, as proposed. Regular monitoring should be carried out during construction and operation phases.
- ii. The project proponent should provide guidelines to the users to ensure conservation of energy and water. In-house environmental awareness campaigns should be carried out at regular intervals to ensure environmental protection.
- iii. Fire fighting systems should be designed in compliance with the WBFS and NBC norms. Preventive measures should be adopted for Risk & Disaster Management as per the provisions of the National Building Code 2005.

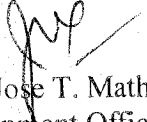


Conditions for Environmental Clearance of proposed residential complex " Rameswara River View" by M/s Rameswara Infra Space LLP and Constituted Attorney of M/s Telequip Barter (P) Ltd. & Ors. at Dag nos. 46, 46/997, 38/1680, 38/1681, 46/1682; Khatian no. – 3947 to 3956, 4032, 4043 to 4051, 4058, 4076 to 4082, 4084 to 4086, 4088 to 4094, 4119 to 4134, 4163 to 4167, 4202, JL no. 02, Municipality Holding no. 197, Mouza – Monirampur, S. N. Banerjee Road, Barrackpore, Under North Barrackpore Municipality, Ward no. 22, PS – Barrackpore, Dist – North 24 Pgs., West Bengal.

system, Solid waste management system, Solar street lights etc.) even after transfer of ownership of the project, should be made in explicit and transparent manner.

- xiv. The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.
- xv. The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with Designation	Mr. Vishal Khetawat, Constituted Attorney
Address	GB Rameswara Apartment, 19A, Sarat Bose Road, Kolkata-700020.
Email	info@rameswara
Telephone Number, Fax Number	Fax no. 30576924
Name of the Consultant	M/s. Envirotech East Pvt. Ltd.


(Dr. Jose T. Mathew)
Chief Environment Officer &
Member Secretary, SEIAA

No. 1497 /EN/T-II-1/075 /2014/1(4)

Date : 19 / 06 /2015

Copy forwarded to :-

1. Secretary, SEAC & M.S. WBPCB
2. Monitoring Cell, Department of Environment, Government of West Bengal.
3. Officer-in-Charge, Regional Office (Eastern Zone), Ministry of Environment & Forests, Government of India, A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
4. Guard file / Record file.

Sd/-
Chief Environment Officer &
Member Secretary, SEIAA

Conditions for Environmental Clearance of proposed residential complex " Rameswara River View " by M/s Rameswara Infra Space LLP and Constituted Attorney of M/s Telequip Barter (P) Ltd. & Ors. at Dag nos. 46, 46/997, 38/1680, 38/1681, 46/1682; Khatian no. - 3947 to 3956, 4032, 4043 to 4051, 4058, 4076 to 4082, 4084 to 4086, 4088 to 4094, 4119 to 4134, 4163 to 4167, 4202, JL no. 02, Municipality Holding no. 197, Mouza - Monirampur, S. N. Banerjee Road, Barrackpore, Under North Barrackpore Municipality, Ward no. 22, PS - Barrackpore, Dist - North 24 Pgs., West Bengal.

Annexure - I

LIST OF TREES PROPOSED FOR PLANTATION

Sl. No.	BOTANICAL NAME	COMMON NAME	QUANTITY
1.	<i>Asltonia scholaris</i>	Chhatim	25
2.	<i>Bauhinia variegata</i>	Kachnar	25
3.	<i>Cassia fistula</i>	Amaltas	30
4.	<i>Delonix regia</i>	Gulmohor	20
5.	<i>Grevillea robusta</i>	Silver oak	15
6.	<i>Jacaranda mimosifolia</i>	Nil Gulmohor	15
7.	<i>Michelia champaca</i>	Golden champa	25
8.	<i>Azadirachta indica</i>	Neem Tree	15
9.	<i>Peltophorum pterocarpum</i>	Radhachura	15
10.	<i>Ficus benjamina</i>	Java Fig Tree	20
11.	<i>Schleichera trijuga</i>	Kusum	15
12.	<i>Terminalia arjuna</i>	Arjun Tree	20
13.	<i>Aegle marmelos</i>	Bael	25
14.	<i>Mangifera indica</i>	Mango	40
15.	<i>Artocarpus heterophyllus</i>	Jackfruit	30
		Total	335

MP