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- vi. The project proponent should use solar energy at least for street lighting.
- v. At least 100 KW of solar power to be generated and utilized in addition to stand alone solar street lights inside Phase 2B.
- iv. The power cabling shall be adequately sized as to maintain the distribution losses not to exceed 1% of the total power usage. Record of transmission losses shall be maintained. The proponent shall install permanent electrical metering to record demand (kVA), energy (kWh) and total power factor.
- iii. Energy efficient Motors and properly rated Transformers should be installed. Manufacturer's certificate to this effect shall be obtained and kept on record. Back up power supply should be based on cleaner fuel.
- ii. Use of energy efficient electrical systems should be promoted. High efficiency lamps with electronic ballasts should be used.
- i. Use of energy efficient construction materials to achieve the desired thermal comfort should be incorporated. The desired level of R and U factors must be achieved. U factor for the top roof should not exceed 0.4 Watt/sq.m/degree centigrade with appropriate modifications of specifications and building technologies. The provisions of National Building Code 2005 should be strictly followed.

Ensure Energy Efficiency:-

- ii. The stack height and emissions from D.G. sets should conform to the norms of Central Pollution Control Board. The certification of space design for DG sets should be done by competent authority.
- i. Noise barriers will be provided at appropriate locations so as to ensure that the noise levels do not exceed the prescribed standards. Diesel generator sets should be provided with integral acoustic enclosure at the manufacturing stage itself as per CPCB norms.

Emission from Diesel Generator Set:-

- iii. Provision for backup power for operation of STP during power failure should be made.
- ii. Water meter to be installed at STP inlet & discharge outlet point of treated water and regular records to be maintained.
- i. Dedicated STP to be provided for Phase 2B. Entire waste water shall be treated in STP. Treated waste water shall be partly reused for toilet flushing, landscaping, internal road and pavement cleaning etc. and rest to be discharged.

Sewage Treatment Plant:-

- iv. The proponent must practice rainwater harvesting on regular basis.
- iii. Dual plumbing system to be installed for maximum use of treated wastewater.
- ii. Use of water meter conforming to ISO standards should be installed at the inlet point of water uptake to monitor the daily water consumption and records to be maintained. Use of water efficient devices / fixtures and appliances should be promoted.
- i. Water requirement during construction phase shall be met from KMDA supply. Ground water should not be abstracted without prior permission of the competent authority as per the West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.

Water supply :-

II. Operation Phase

- vi. Adequate access to fire tenders should be provided.
- v. Rest room facilities should be provided for service population.
- iv. Adequate measures to be adopted for water conservation during construction and operation stage. Use of efficient irrigation equipment, evaporative cooling unit in air-conditioning system etc should be considered.

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.
- iii. Dedicated cycle tracks should be included inside the Phase 2B.

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 with concerned municipality.
- 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 municipality 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.



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- i. The environmental clearance accorded shall be valid for a period of 7 years for the proposed project.
- ii. Prior Consent-to-Establish (NOC) for the proposed project must be obtained from WBPCB by the proponent. All other statutory clearances should be obtained by project proponent from the competent authorities.
- iii. The proponent should maintain a display board at the site, providing detailed information on the salient features of the proposed project.
- iv. The environmental safeguards contained in the EIA/EEMP report should be implemented in letter and spirit.
- v. All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.
- vi. Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits.
- vii. The project proponent should make financial provision in the total budget of the project for implementation of the suggested safeguard measures.
- viii. Six monthly monitoring reports should be submitted to the West Bengal Pollution Control Board, who would be monitoring the implementation of environmental safeguards and should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents should also be forwarded to the State Level Environment Impact Assessment Authority, West Bengal.
- ix. In case of any violation of the conditions laid down in this Environmental Clearance, Section 16 of The Environment (Protection) Act, 1986, will be applicable. In case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, West Bengal.
- x. The State Level Environment Impact Assessment Authority, West Bengal 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 Environmental (Protection) Act,

Part-B GENERAL CONDITIONS

- xi. All the conditions stipulated for individual phases in the EC for the whole township vide no. 572 /EN/T-II-1/126/2008 dated 09 / 03 /2016 should be complied with.
- xii. The first compliance report.
- xiii. Fire escape, evacuation plan and means thereof, the refuge areas and floor levels to be reported in be reported in the first compliance report.
- xiv. Fraction of covered area that would be illuminated by natural lighting of the proposed buildings to be reported in the first compliance report.
- xv. All the recommendations made in the EIA/EEMP report should be complied with.
- xvi. The proponent should restrict the use of glazed surface as per National Building Code, 2005.
- xvii. Environmental Management Information System shall be maintained properly.
- xviii. Government of West Bengal, vide No. EN/3170/T-IV-7/001/2009 dated 10.12.2009.
- xix. The proponent should abide by the Direction issued by the Department of Environment, Corporate Social Responsibility programmes.
- xx. The Corporate Social Responsibility Plan with specific financial commitment should be implemented for the proposed project. At least 2% of the total project cost should be utilized for Public utility services such as common public toilets to be provided.
- xxi. 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.

Howrah, West Bengal.


Conditions for Environmental Clearance of proposed Township Project (Phase 2B) by M/s. Kolkata West International City Pvt. Ltd. at Mouza - Kona, Balitkurt, Bankra, Pakuria, Tentulkuhi, Khalia & Salap, PO & PS - Domjur, Dist -

Conditions for Environmental Clearance of proposed Township Project (Phase 2B) by M/s. Kolkata West International City Pvt. Ltd. at Mouza - Kona, Balitikuri, Bankra, Pakuria, Tentulkuli, Khalia & Salap, PO & PS - Domjur, Dist - Howrah, West Bengal.

1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.

- xi. The Project Proponent should inform the public that the proposed project has been accorded environmental clearance by the SEIAA, West Bengal and copies of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at website of the SEIAA, West Bengal (<http://environmentwb.gov.in>). This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.
- xii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Civil Aviation Department (if required) etc. shall be obtained by project proponents from the competent authorities.
- xiii. Provision for incorporation of appropriate conditions in the Sale Agreement / Deed, for ensuring sustained Operation and Maintenance (O&M) of the common facilities (STP, Rainwater harvesting 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	Chinmoy Mukherjee, Vice-President (Construction)
Address	Vichitra, Kolkata West International City, Salap, NH-6, Howrah-711403
Email	contact@kwic.co.in
Telephone Number, Fax Number	Ph no. +91-3330026000, Fax no-3303256508
Name of the Consultant	M/s. Ghosh Bose & Associates Pvt. Ltd.


(Sandipan Mukherjee, IFS)
Chief Environment Officer &
Member Secretary, SEIAA

No. 2237 /EN/ T-II-1/126/2008/(Pt-I)/1(3)

Date : 04 / 10 /2016

Copy forwarded to :-

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



Sd/-
Chief Environment Officer &
Member Secretary, SEIAA



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SI. No.	BOTANICAL NAME	COMMON NAME	QUANTITY
1.	<i>Delonix regia</i>	Gulmohor	200
2.	<i>Mimusops elengi</i>	Bakul	250
3.	<i>Peltophorum pterocarpum</i>	Radhachura	100
4.	<i>Alstonia scholaris</i>	Chhatim	100
5.	<i>Bauhinia variegata</i>	Raktakanchan	250
6.	<i>Cassia fistula</i>	Amaltas	100
7.	<i>Michelia champaca</i>	Golden Champa	100
8.	<i>Spathodea campanulata</i>	Tulip Tree	100
9.	<i>Tabebuia rosea</i>	Rosy Trumpet Tree	100
10.	<i>Jacaranda mimosifolia</i>	Nil Gulmohor	200
11.	<i>Thespesia populnea</i>	Poros	76
12.	<i>Polyalthia longifolia</i>	Debdaru	100
13.	<i>Lagerstroemia speciosa</i>	Jaruli	100
		Total	1776

LIST OF TREES PROPOSED FOR PLANTATION

Annexure - I

Conditions for Environmental Clearance of proposed Township Project (Phase 2B) by M/s. Kolkata West International City Pvt. Ltd. at Mouza - Kona, Ballitkuri, Bankra, Pakuria, Tentulkuji, Khalia & Salap, PO & PS - Domjur, Dist - Howrah, West Bengal.