

Department of Environment
Government of West Bengal
Block G, 2nd Floor, Writers Building
Kolkata - 700001

No. EN/2635/T-II-1/077/2007

Date : 05 / 12 / 2008

To
M/s. Unitech Hi-Tech Structures Ltd.
22, Camac Street, Block - C
4th Floor
Kolkata - 700 016.

Subject : Environmental Clearance for the proposed IT SEZ by M/s. Unitech Hi-Tech Structures Limited at Plot No. DH, Action Area ID, New Town, Rajarhat, Kolkata, West Bengal.

Sir,

This has a reference to your application no. ENV/UL/MoEF/UHTSL/IT-SEZ, Rajarhat/Kol/EIA/290307 dt. 29th March, 2007 and subsequent communications for Environmental Clearance for the proposed IT SEZ by M/s. Unitech Hi-Tech Structures Limited at Plot No. DH, Action Area ID, New Town, Rajarhat, Kolkata, West Bengal.

The proposal has been examined and processed in accordance with EIA Notification, of 2006. The proposed PHASE I comprises of Block A (B+G+9) and Block B (B+G+7). **This clearance is applicable for Block A (B+G+9) only of the proposed PHASE I.** However, future expansion proposal should abide by the minimum green area, maximum paved area, permissible ground coverage and other necessary stipulations of the Provisional Environmental Clearance for the entire project.

It is noted that the salient features of Block A (B+G+9) of the proposed PHASE I of the project, for which Environmental clearance has been considered are as follows :

• Land Area	: 9.472 acres / 3.833 ha (38333.10 sqm.)
• Expected Population	: 8270 persons
• Total Water requirement	: 1032 KLD (Operation stage)
• Fresh Water requirement	: 764 KLD (Operation stage, WBHIDCO supply)
• Wastewater generated	: 298 KLD (to be treated in STP, partly reused and partly discharged to WBHIDCO sewer line)
• Wastewater recycled	: 268 KLD (to be reused after treatment in STP)
• Solid waste disposal	: 1.654 tonne per day (to be disposed off through WBHIDCO)
• Total Built-up Area	: 82683.25 sqm.
• Ground Coverage	: 23.70% of land area of Block A
• Landscaped Green Area	: 51.30% of land area of Block A
• Paved Area	: 25% of land area of Block A
• No. of Car Parking Spaces proposed	: 1090
• Total Power requirement	: 7.5 MVA, NTESSC
• Backup Power	: 6 nos. DG Sets each 1250 KVA
• Construction started	: Yes

State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused the recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal, and after considering the recommendations of the State Level Expert Appraisal Committee (SEAC), the State Level Environment Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA notification no. S.O. 1533 dt. 14th September, 2006 of Ministry of Environment & Forests, GOI, subject to strict compliance of terms and conditions as mentioned below.

Part A – SPECIFIC CONDITIONS

I. Construction Phase

Facility of labourers during construction: -

- i. Provision of drinking water, wastewater disposal and solid waste management should be ensured for labour camps.
- ii. Water usage during construction should be optimised to avoid any wastage.
- iii. Proper sanitation facilities should be provided for construction workers to ensure environmental sanitation. Sewage generated from the areas occupied by the construction labourers have to be directed into the existing sewage drain of the area. In case of non availability of the sewer system, an onsite treatment system has to be provided.
- iv. Health and safety of the workers should be ensured during construction. Personnel protective equipment like 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.

Steps to avoid disturbance during construction:-

- i. All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- ii. Adequate erosion and sediment control measures to be adopted before ensuing construction activities.
- 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. Only limited necessary construction should be done during nighttime. 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.
- ix. The proponent must ensure that no driven piles shall be proposed for this project.
- x. 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.
- xi. Loading and unloading operations should not be carried out in open areas.
- 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.
- xvi. Promotion of use of cleaner fuel and fuel quality improvement should be done. Excessive energy consumption and fuel usage should be avoided.
- xvii. Accumulation / stagnation of water should be avoided to ensure vector control.

Selection of materials for better energy efficiency:-

- i. Use of energy efficient construction materials should be ensured to achieve the desired thermal comfort.
- ii. Design layout should ensure adequate solar access and ventilation. Proper planning and window design for daylight integration should be considered.
- iii. Use of ash based bricks should be explored to the maximum extent possible. Blended cement with fly ash will be used. The provisions of MoEF Notifications on "Fly Ash Utilization" must be complied with.
- iv. Construction should conform to the requirements of local seismic regulations. The project proponent should obtain permission for the plans and designs including structural design, standard and specifications from concerned authority.
- v. Construction technologies that require less material and possess high strength should be adopted. Materials with low embodied energy and high strength should be used preferably.
- vi. Use of alternate building materials and alternate construction techniques should be considered apart from the conventional materials and methods. Use of hollow unit masonry should be considered.
- vii. Use of energy efficient lighting systems e.g. High Pressure Sodium Vapour (HPSV) Lamps, LED etc. should be promoted. Solar energy should be used for outdoor lighting as far as practicable.
- viii. Passive solar cooling to be incorporated in building design. Buildings should be oriented for ensuring natural ventilation and daylighting.
- ix. Proper insulation of roof should be provided to achieve desired thermal comfort. Use of light coloured, reflective roofs having an SRI (solar reflectance index) of 50% or more should be incorporated.
- x. Use of high albedo or reflective pavements to keep parking lots, pavements and inside roads cool should be incorporated.
- xi. Guidelines to the occupants should include usage efficiency measures such as energy efficient lighting and water efficient system.
- xii. Reduce hard paving-onsite (open area surrounding building premises) and/or provide shade on hard paved surfaces to minimize heat island effect and imperviousness of the site.
- xiii. Adequate open space, greenery and water bodies to be provided as per rules.
- xiv. Any proposed building with air-conditioning facility should follow the norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency. Use of chillers will be CFC & HCFC free.
- xv. Restrict the use of glazed surface as per National Building Code 2005.

Water Body Conservation:-

- i. Water body, if any, should not be lined and their embankments should not be cemented. The water bodies are to be kept in natural conditions without disturbing the ecological habitat. The water bodies within the project area shall be maintained in conformity with the conditions stipulated in the Environmental Clearance and the NOC accorded to the Department of Housing, Government of West Bengal for the proposed New Town Project at Rajarhat.

Plantation Proposal:-

- i. The unit should strictly abide by the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2007. The proponent should undertake plantation of trees over atleast 20% of the total area.



- ii. The proponent should plant atleast 700 trees per hectare of green area. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.

Water Supply :-

- i. Prior permission should be obtained from the competent authority for abstraction of Groundwater 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 wastewater shall be treated in STP. Treated wastewater shall be partly reused and partly discharged to WBHIDCO sewer line.

Stormwater 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 stormwater drainage network to be designed for the project without disturbing the surrounding settlements. Storm water management plan should be implemented to prevent large volumes of storm water to be conveyed to the receiving waters by the municipality, which reduces the load on municipality drainage system, and receiving waters are not impacted.
- 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.

Rain Water Harvesting Scheme:-

- i. The proponent must follow the Rainwater Harvesting Guidelines of the State Level Expert Appraisal Committee (SEAC) available in the website (<http://www.wbpcb.gov.in>).
- ii. The proponent must collect rainwater form roof-top catchments and reuse for various purposes after necessary cleaning. Water bodies may be created and used for storing rain water. Adequate retention time and storage provisions should be provided for harvesting rainwater.
- iii. The sub-surface recharge proposal including the design of recharge structure and location of recharge structure should be approved by competent authority as per West Bengal Ground Water Resources (Management, control and Regulation) Act, 2005. The total quantity of the rainwater which would be harvested, including surface storage and sub-surface recharge, should also be mentioned in the proposal.
- iv. Adequate water storage for firefighting should be provided as per norms.

Municipal Solid Waste Management :-

- i. Adequate provision shall be made for storage of solid waste and adequate means of access shall be provided. Space should be kept reserved for waste storage, collection etc. in site planning and architectural designs.

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. Proper traffic management plan should be adopted in consultation with Traffic authorities.

Others:-

- i. All mandatory approvals and permission as required from Director of Explosives, Fire Department etc. should be obtained.

- ii. Provision of Effective Controls and Building Management Systems such as Automatic Fire Alarm and Fire Detection and Suppression System, Building Automation System for Energy Conservation, Management Information Systems etc. must be ensured.
- iii. Automatic lighting control, occupancy sensors, heat exchanger, high efficiency chillers etc. should be provided for energy conservation.
- iv. Efficient management of indoor air quality must be ensured for health and safety of the users.
- v. 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.
- vi. Rest room facilities should be provided for service population.
- vii. Provisions should be kept for the integration of solar water heating system.
- viii. Adequate access to fire tenders should be provided.
- ix. CO monitoring facility with automatic alarm should be provided at basement car parking.

II. Operation Phase

Water supply :-

- i. Water requirement during operation phase shall be met from WBHIDCO 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.
- 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. Use of water efficient devices / fixtures and appliances should be promoted. Installation of dual flushing system should be considered to conserve water.
- iii. The proponent must practice rainwater harvesting on regular basis.

Sewage Treatment Plant:-

- i. As per the proposal submitted by the proponent wastewater shall be initially treated in STP. Treated wastewater shall be reused for landscaping, HVAC etc. and partly discharged to WBHIDCO sewer line. Discharge of treated sewage shall conform to E(P) Rules. Sewage Treatment Plants should be monitored on a regular basis.
- ii. Reuse of treated wastewater should be carried out, as proposed.

Emission from Diesel Generator Set: -

- 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.
- ii. The stack height and emissions from DG 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.

Ensure Energy Efficiency:-

- 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.
- ii. The lighting design and the heating, ventilation and air conditioning systems should conform to the recommendations of the Energy Conservation Building Code 2007 of the Bureau of Energy Efficiency, Gol.
- iii. Use of energy efficient electrical systems should be promoted. High efficiency lamps with electronic ballasts should be used.
- iv. 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.



- v. 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.
- vi. The project proponent should resort to solar energy at least for street lighting and water heating.
- vii. Energy Audits should be conducted on a regular basis.

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. 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 with WBHIDCO.
- ii. 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.
- iii. The proponent should abide by the Hazardous Wastes (Management and Handling) Rules, 2003. 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 and Handling) Rules, 2003.
- iv. Spent oil from DG Sets should be stored in HDPE drums in isolated covered facility and disposed off as per the Hazardous Wastes (Management and Handling) Rules, 2003. Spent oil from DG Sets should be disposed off through registered recyclers only.

E-Waste Management:-

- i. Various types of electrical and electronic wastes generated in the building, which includes PC, Xerox machine components etc. should be collected separately for transportation to the authorized recyclers approved by the State / Central Pollution Control Boards. There should also be provision for storage of these wastes in the building before transportation. The e-waste collected should be processed in authorized recycling unit.

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.
- iii. 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.
- iv. Firefighting 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.
- v. Environmental Management Information System shall be maintained properly.
- vi. The project proponent is requested to expand their Corporate Social Responsibility to the specific areas of health, education and environmental sanitation of rural populations in the vicinity of the project area. Regular mobile medical camps, measures for vector control supplementing infrastructure and teaching aids in schools, providing drinking water and toilet facilities in schools, supporting mid day meal in schools, initiative in smokeless chullahs, sanitary toilets, hygiene education etc. in villages in the neighbourhood would be some indicative areas in which proponent could expand its Corporate Social Responsibility programme.

Part-B GENERAL CONDITIONS

- i. The environmental safeguards contained in the EMP should be implemented in letter and spirit.
- ii. 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.
- iii. Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase.
- iv. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits.
- v. The project proponent should make financial provision in the total budget of the project for implementation of the suggested safeguard measures.
- vi. 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.
- vii. 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.
- viii. In case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA.
- ix. The State Level Environment Impact Assessment 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 Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.
- x. The Project Proponent should inform the public that the proposed project has been accorded environmental clearance by the SEIAA 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 (<http://enviswb.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.
- xi. 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.
- xii. 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.
- xiii. 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.



(Arijit Banerjee)

Member Secretary, SEIAA &
Chief Environment Officer



2

Department of Environment
Government of West Bengal
Block G, 2nd Floor, Writers Building
Kolkata :700001

No. EN/1413 /T-II-1/077/2007

Date : 15 / 05 /2009

To
M/s. Unitech Hi-Tech Structures Limited
22, Camac Street
4th Floor
Kolkata - 700 016

Subject : Environmental Clearance for the proposed IT SEZ by M/s. Unitech Hi-Tech Structures Limited at Plot No. DH, Action Area ID, New Town, Rajarhat, Kolkata, West Bengal.

Sir,

This has a reference to your application no. UHTSL/RE-PLNG/006/07 dt. 10th December, 2008 and subsequent communications for Environmental Clearance for the proposed IT SEZ by M/s. Unitech Hi-Tech Structures Limited at Plot No. DH, Action Area ID, New Town, Rajarhat, Kolkata, West Bengal.

The proposal has been examined and processed in accordance with EIA Notification, of 2006. It is noted that the provisional environmental clearance was granted by SEAC vide memo no. 725-2N-54/2007 (E) dt. 26/03/2008 for construction of IT-SEZ having 7 blocks of G+5 to G+21 storied buildings and the environmental clearance granted by SEIAA vide no. EN/2635/T-II-1/077/2007 dt. 05/12/2008 for construction of block A of Phase-I. This clearance is applicable for the entire project except Block A.

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

Land Area	: 35.928 acres/ 14.537 ha (145392.80 sqm.)
Expected Population	: 33760 persons
Total Water requirement	: 4215 KLD (Operation stage, WBHIDCO supply)
Wastewater generated	: 1214 KLD (to be discharged to WBHIDCO sewer line)
Solid waste disposal	: 6.746 tonne per day (to be disposed off through WBHIDCO)
Total Built-up Area	: 337653.63 sqm.
Ground Coverage	: 28.44% of land area excluding Block A
Landscaped Green Area	: 46.56% of land area excluding Block A
Paved Area	: 25% of land area excluding Block A
No. of Car Parking Spaces proposed	: 4104
Total Power requirement	: 28.5 MVA, NTESC
Backup Power	: DG Sets (10 x 1010 KVA & 24 x 1250 KVA)



State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused the recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal, and after considering the recommendations of the State Level Expert Appraisal Committee (SEAC), the State Level Environment Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA notification no. S.O. 1533 (E) dt. 14th September, 2006 of Ministry of Environment & Forests, GOI, subject to strict compliance of terms and conditions as mentioned below.

Part A – SPECIFIC CONDITIONS

I. Construction Phase

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leach into the ground water. If necessary, oil trap should be installed where there is deployment of heavy machineries.

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3

- ix. Proper insulation of roof should be provided to achieve desired thermal comfort. Use of light coloured, reflective roofs having an SRI (solar reflectance index) of 50% or more should be incorporated.
- x. Use of high albedo or reflective pavements to keep parking lots, pavements and inside roads cool should be incorporated.
- xi. Guidelines to the occupants should include usage efficiency measures such as energy efficient lighting and water efficient system.
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- i. The proponent must follow the Rainwater Harvesting Guidelines of the State Level Expert Appraisal Committee (SEAC) available in the website (<http://www.wbpcb.gov.in>).
- ii. The proponent must collect rainwater form roof-top catchments and reuse for various purposes after necessary cleaning. Water bodies may be created and used for storing rain water. Adequate retention time and storage provisions should be provided for harvesting rainwater.
- iii. The sub-surface recharge proposal including the design of recharge structure and location of recharge structure should be approved by competent authority as per West Bengal Ground Water Resources (Management, control and Regulation) Act, 2005. The total quantity of the rainwater which would be harvested, including surface storage and sub-surface recharge, should also be mentioned in the proposal.
- iv. Adequate water storage for firefighting should be provided as per norms.

Municipal Solid Waste Management :-

- i. Adequate provision shall be made for storage of solid waste and adequate means of access shall be provided. Space should be kept reserved for waste storage, collection etc. in site planning and architectural designs.

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.

Others:-

- i. All mandatory approvals and permission as required from Director of Explosives, Fire Department etc. should be obtained.



5

- ii. Provision of Effective Controls and Building Management Systems such as Automatic Fire Alarm and Fire Detection and Suppression System, Building Automation System for Energy Conservation, Management Information Systems etc. must be ensured.
- iii. Automatic lighting control, occupancy sensors, heat exchanger, high efficiency chillers etc. should be provided for energy conservation.
- iv. Efficient management of indoor air quality must be ensured for health and safety of the users.
- v. 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.
- vi. Rest room facilities should be provided for service population.
- vii. Provisions should be kept for the integration of solar water heating system.
- viii. Adequate access to fire tenders should be provided.
- ix. CO monitoring facility with automatic alarm should be provided at basement car parking.

II. Operation Phase

Water supply :-

- i. Water requirement during operation phase shall be met from WBHIDCO / Notified Township Authority 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.
- 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. Use of water efficient devices / fixtures and appliances should be promoted.
- iii. The proponent must practice rainwater harvesting on regular basis.

Sewage Treatment Plant:-

- i. As per the proposal submitted by the proponent wastewater shall be discharged to WBHIDCO / Notified Township Authority sewer line. Discharge of treated sewage shall conform to E(P) Rules. Sewage Treatment Plants should be monitored on a regular basis.

Emission from Diesel Generator Set: -

- 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.
- ii. The stack height and emissions from DG 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.

Ensure Energy Efficiency:-

- 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



- iv. Spent oil from DG Sets should be stored in HDPE drums in isolated covered facility and disposed off as per the Hazardous Wastes (Management and Handling) Rules, 2003. Spent oil from DG Sets should be disposed off through registered recyclers only.

E-Waste Management:-

- i. Various types of electrical and electronic wastes generated in the building, which includes PC, Xerox machine components etc. should be collected separately for transportation to the authorized recyclers approved by the State / Central Pollution Control Boards. There should also be provision for storage of these wastes in the building before transportation. The e-waste collected should be processed in authorized recycling unit.

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.
- iii. 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.
- iv. Firefighting 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.
- v. Environmental Management Information System shall be maintained properly.

Part-B GENERAL CONDITIONS

- i. The environmental safeguards contained in the EMP should be implemented in letter and spirit.
- ii. 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.
- iii. Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase.
- iv. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits.
- v. The project proponent should make financial provision in the total budget of the project for implementation of the suggested safeguard measures.
- vi. 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.
- vii. 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.
- viii. In case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA.

 8

- ix. The State Level Environment Impact Assessment 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 Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.
- x. The Project Proponent should inform the public that the proposed project has been accorded environmental clearance by the SEIAA 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 (<http://enviswb.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.
- xi. 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.
- xii. Provision for incorporation of appropriate conditions in the Sale Agreement / Deed, for ensuring sustained Operation and Maintenance (O&M) of the common facilities (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.
- xiii. 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.
- xiv. The project proponent should strictly abide by the conditions laid down in the Environmental Clearance for the proposed New Town Project at Rajarhat, Kolkata, accorded by the Department of Environment, Government of West Bengal to the Department of Housing, Government of West Bengal vide Memo No. EN/1998/4W-8/99 dated 10th November, 1999 and Memo No. EN/P/90/4W-8/99(Pt.II) dated 30th January, 2003.
- xv. The project proponent should also abide by the NOC conditions accorded by the West Bengal Pollution Control Board to the Department of Housing, Government of West Bengal for the proposed New Town Project at Rajarhat, Kolkata, vide Sl. No. 04462 Memo No. 1295-175/WPB-NOC/99-2000 dated 31st August, 1999 and Sl. No. NO10868 Memo No. 7041-175/wpb/NOC/99-2000 dated 9th June, 2004.
- xvi. 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 and Handling) Rules, 1989, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.



(Debal Ray)

Member Secretary, SEIAA &
Chief Environment Officer

Under Certificate of Part 10

STATE LEVEL EXPERT APPRAISAL COMMITTEE, WEST BENGAL

Paribesh Bhawan, 10A, Block - LA, Sector-III

Bidhannagar, Kolkata-700 098, India

Tel: 2335 - 9088 / 7428 / 8211 / 6731 / 0261 / 8861 / 5868 / 1625

Fax: 2335 - 5868 / 2813

City Code: 33, Country Code: 91

Website: www.wbpcb.gov.in

Memo No: *413*-2N-58/2008 (E)

Dated: *01.10.2008*
~~09.2008~~

To
M/s. Bengal Unitech Universal Townscape Ltd.
22, Camac Street, Block-C, 4th Floor,
Kolkata-700 016.

Sub: Provisional Environmental Clearance for the proposed project "THE BUSINESS HOTEL" (KOLKATA COURTYARD HOTEL) at Plot No. DH, Action Area-ID, New Town, Kolkata-700156, in the Twenty-Third Meeting of the State Level Expert Appraisal Committee, West Bengal..

Sir,

Enclosed please find the copy of the Provisional Environmental Clearance granted by the State Level Expert Appraisal Committee (SEAC) during its twenty-third meeting on 15.09.2008. Please incorporate the conditions stipulated in this Provisional Environmental Clearance before submission of the plan to the concerned authority for sanction. Please note, your case shall be further considered by this committee only after submission of sanctioned building plan by the concerned authority and the necessary documents as per the Provisional Environmental Clearance.

Yours faithfully,



(SANDIPAN MUKHERJEE)

Secretary, State Level Expert Appraisal Committee, West Bengal

Encl: As stated above.

Provisional Environmental Clearance for the proposed project "THE BUSINESS HOTEL (KOLKATA COURTYARD HOTEL)" by M/s. Bengal Unitech Universal Townscape Limited at Plot No. - DH, Action Area ID, New Town, Rajarhat, Kolkata - 700 156.

This has reference to the application for environmental clearance dated 23.07.2008 alongwith FORM I, FORM IA and other documents on the above referred project.

1. The above proposal has been considered in the 23rd SEAC meeting held on 15.09.2008.
2. This is a proposal for construction of a Hotel (1 block of G+16 storied building) having 242 Guest rooms alongwith Administrative building, Restaurant etc. (1 block of G+2 storied building).
3. Salient features of the proposed project are –

• Land Area	: 2.983 acres (12071.68 sqm.)
• Expected Population	: 1125 persons
• Total Water requirement	: 410 KLD (Operation stage)
• Fresh Water requirement	: 267 KLD (WBHIDCO supply)
• Domestic Water requirement	: 180 KLD
• Wastewater generated	: 160 KLD (to be treated in STP)
• Wastewater reused	: 144 KLD (to be reused after treatment in STP)
• Solid waste disposal	: 0.815 TPD
• Total Built-up Area	: 25102.91 sqm.
• Ground Coverage	: 3278.30 sqm. (27.16% of land area)
• Landscaped Green Area	: 5775.38 sqm. (47.84% of land area)
• Paved Area	: 3018 sqm. (25% of land area)
• No. of Parking Spaces proposed	: 100
• Total Power Requirement	: 1527 KW, WBSEDCL
• Backup Power	: 1 no. DG Set 500 KVA & 2 nos. DG Sets each 1010 KVA
• Boilers	: 3 nos. HSD fired Steam Boilers & 2 nos. HSD fired Hot Water Boilers

4. The State Level Expert Appraisal Committee, West Bengal, hereby **approves provisional environmental clearance** as per the provision of Environmental Impact Assessment Notification 2006 and the subsequent amendments, on the basis of above mentioned features alongwith other details submitted to SEIAA, subject to strict compliance of the terms and conditions (whichever applicable at building sanction stage) mentioned below.



Secretary, State Expert Appraisal Committee

Provisional Environmental Clearance for the proposed project "THE BUSINESS HOTEL (KOLKATA COURTYARD HOTEL)" by M/s. Bengal Unitech Universal Townscape Limited at Plot No. - DH, Action Area ID, New Town, Rajarhat, Kolkata - 700 156.

Part A – SPECIFIC CONDITIONS

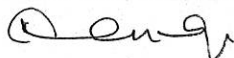
I. Construction Phase

Facility of labourers during construction: -

- i. Provision of drinking water, wastewater disposal and solid waste management should be ensured for labour camps.
- ii. Water usage during construction should be optimised to avoid any wastage.
- iii. Proper sanitation facilities should be provided for construction workers to ensure environmental sanitation. Sewage generated from the areas occupied by the construction labourers have to be directed into the existing sewage drain of the area. In case of non availability of the sewer system, an onsite treatment system has to be provided.
- iv. Health and safety of the workers should be ensured during construction. Personnel protective equipment like 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.

Steps to avoid disturbance during construction:-

- i. All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- ii. Adequate erosion and sediment control measures to be adopted before ensuing construction activities.
- 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-peaking hours.
- vi. Ambient noise levels should conform to residential standards both during day and night. Only limited necessary construction should be done during nighttime. 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.
- ix. The proponent must ensure that no driven piles shall be proposed for this project.



Secretary, State Expert Appraisal Committee

Provisional Environmental Clearance for the proposed project "THE BUSINESS HOTEL (KOLKATA COURTYARD HOTEL)" by M/s. Bengal Unitech Universal Townscape Limited at Plot No. - DH, Action Area ID, New Town, Rajarhat, Kolkata - 700 156.

- x. 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.
- xi. Loading and unloading operations should not be carried out in open areas.
- 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.
- xvi. Promotion of use of cleaner fuel and fuel quality improvement should be done. Excessive energy consumption and fuel usage should be avoided.
- xvii. Accumulation/stagnation of water should be avoided to ensure vector control.

Selection of materials for better energy efficiency:-

- i. Use of energy efficient construction materials should be ensured to achieve the desired thermal comfort.
- ii. Design layout should ensure adequate solar access and ventilation. Proper planning and window design for daylight integration should be considered.
- iii. Use of ash based bricks should be explored to the maximum extent possible. Blended cement with fly ash will be used. The provisions of MoEF Notifications on "Fly Ash Utilization" must be complied with.
- iv. Construction should conform to the requirements of local seismic regulations. The project proponent should obtain permission for the plans and designs including structural design, standard and specifications from concerned authority.
- v. Construction technologies that require less material and possess high strength should be adopted. Materials with low embodied energy and high strength should be used preferably.
- vi. Use of alternate building materials and alternate construction techniques should be considered apart from the conventional materials and methods. Use of hollow unit masonry should be considered.
- vii. Use of energy efficient lighting systems e.g. High Pressure Sodium Vapour (HPSV) Lamps, LED etc. should be promoted. Solar energy may be used for outdoor lighting as far as practicable.
- viii. Passive solar cooling to be incorporated in building design. Buildings should be oriented for ensuring natural ventilation and daylighting.
- ix. Proper insulation of roof should be provided to achieve desired thermal comfort. Use of light coloured, reflective roofs having an SRI (solar reflectance index) of 50% or more should be incorporated.
- x. Use of high albedo or reflective pavements to keep parking lots, pavements and inside roads cool should be incorporated.



Secretary, State Expert Appraisal Committee

Provisional Environmental Clearance for the proposed project "THE BUSINESS HOTEL (KOLKATA COURTYARD HOTEL)" by M/s. Bengal Unitech Universal Townscape Limited at Plot No. - DH, Action Area ID, New Town, Rajarhat, Kolkata - 700 156.

- xi. Guidelines to the occupants should include usage efficiency measures such as energy efficient lighting and water efficient system.
- xii. Reduce hard paving-onsite (open area surrounding building premises) and/or provide shade on hard paved surfaces to minimize heat island effect and imperviousness of the site.
- xiii. Adequate open space, greenery and water bodies to be provided as per rules.
- xiv. Any proposed building with air-conditioning facility should follow the norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency. Use of chillers will be CFC & HCFC free.
- xv. Restrict the use of glazed surface as per National Building Code 2005.

Water Body Conservation:-

- i. No water body (except swimming pools) should be lined and no embankments should be cemented. The water bodies are to be kept in natural conditions without disturbing the ecological habitat. The water bodies within the project area shall be maintained in conformity with the conditions stipulated in the Environmental Clearance and the NOC accorded to the Department of Housing, Government of West Bengal for the proposed New Town Project at Rajarhat.

Plantation Proposal:-

- i. The unit should strictly abide by The West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2007. The proponent should undertake plantation of trees over atleast 20% of the total area.
- ii. The proponent should plant atleast 280 trees, as proposed. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.

Water supply :-


- i. Water requirement during construction phase shall be met from WBHIDCO 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.

Sewage Treatment Plant:-

- i. As per the proposal submitted by the proponent wastewater shall be treated in STP.

Stormwater 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.



Secretary, State Expert Appraisal Committee

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- iv. Adequate stormwater 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 of 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.

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. Water bodies may be created and used for storing rain water. Adequate retention time and storage provisions should be provided for harvesting rainwater.
- iii. The sub-surface recharge proposal including the design of recharge structure and location of recharge structure should be submitted before the State Expert Appraisal Committee for consideration. The total quantity of the rainwater which would be harvested, including surface storage and sub-surface recharge, should also be mentioned in the proposal. The proponent should not attempt for recharging of aquifer without prior permission from the competent authority.
- iv. Adequate firefighting storage should be provided as per norms.

Municipal Solid Waste Management :-

- i. Adequate provision shall be made for storage of solid waste and adequate means of access shall be provided. Space should be kept reserved for waste storage, collection etc. in site planning and architectural designs.

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.

Others:-

- i. All mandatory approvals and permission as required from Director of Explosives, Fire Department etc. should be obtained.



Secretary, State Expert Appraisal Committee

Provisional Environmental Clearance for the proposed project "THE BUSINESS HOTEL (KOLKATA COURTYARD HOTEL)" by M/s. Bengal Unitech Universal Townscape Limited at Plot No. - DH, Action Area ID, New Town, Rajarhat, Kolkata - 700 156.

- ii. Provision of Effective Controls and Building Management Systems such as Automatic Fire Alarm and Fire Detection and Suppression System, Building Automation System for Energy Conservation, Management Information Systems etc. must be ensured.
- iii. Automatic lighting control, occupancy sensors, heat exchanger, high efficiency chillers etc. should be provided for energy conservation.
- iv. Efficient management of indoor air quality must be ensured for health and safety of the users.
- v. 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.
- vi. Rest room facilities should be provided for service population.
- vii. Provisions should be kept for the integration of solar water heating system.
- viii. Adequate access to fire tenders should be provided.
- ix. CO monitoring facility with automatic alarm should be provided at basement car parking, if any.

II. Operation Phase

Water supply :-


- i. Water requirement during operation phase shall be met from WBHIDCO 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.
- 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. Use of water efficient devices / fixtures and appliances should be promoted. Installation of dual flushing system should be considered to conserve water.
- iii. The proponent must practice rainwater harvesting on regular basis.

Sewage Treatment Plant:-

- i. As per the proposal submitted by the proponent wastewater shall be treated in STP. Treated wastewater shall be completely reused. Treated sewage shall conform to E(P) Rules. Sewage Treatment Plants should be monitored on a regular basis.
- ii. Reuse of treated wastewater should be carried out as proposed.

Emission from Diesel Generator Set: -

- 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.
- 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.



Secretary, State Expert Appraisal Committee

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Ensure Energy Efficiency:-

- 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.
- ii. The lighting design and the heating, ventilation and air conditioning systems should conform to the recommendations of the Energy Conservation Building Code 2007 of the Bureau of Energy Efficiency, GoI.
- iii. Use of energy efficient electrical systems should be promoted. High efficiency lamps with electronic ballasts should be used.
- iv. 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.
- v. 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.
- vi. The project proponent should resort to solar energy at least for street lighting and water heating.
- vii. Energy Audits should be conducted on a regular basis.

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. 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 with WBHIDCO.
- ii. 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.
- iii. The proponent should abide by the Hazardous Wastes (Management and Handling) Amendment Rules, 2003. Collection and storage of hazardous wastes during Pre-construction and Post-construction activity should be



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planned properly. The expected hazardous wastes should be disposed off separately as per the Hazardous Wastes (Management and Handling) Amendment Rules, 2003.

- iv. Spent oil from DG Sets should be stored in HDPE drums in isolated covered facility and disposed off as per the Hazardous Wastes (Management and Handling) Amendment Rules, 2003. Spent oil from DG Sets should be disposed off through registered recyclers only.
- v. Various types of electrical and electronic wastes generated in the building, which includes PC, Xerox machine components etc. should be collected separately for transportation to the authorized recyclers approved by the State / Central Pollution Control Boards. There should also be provision for storage of these wastes in the building before transportation. The e-waste collected should be processed in authorized recycling unit.

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. Firefighting 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.
- iv. Environmental Management Information System shall be maintained properly.

Part-B GENERAL CONDITIONS


1. The environmental safeguards contained in the EMP Report should be implemented in letter and spirit.
2. 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.
3. Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase.
4. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits.
5. The project proponent should make financial provision in the total budget of the project for implementation of the suggested safeguard measures.
6. 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 Environmental Impact Assessment Authority.



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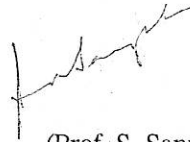
7. In case of any violation of the conditions laid down in this Environmental Clearance, Section 16 of The Environment (Protection) Act, 1986, will be applicable.
8. In case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA.
9. The State Environmental Impact Assessment 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.
10. 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.
11. 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.
12. The project proponent should strictly abide by the conditions laid down in the Environmental Clearance for the proposed New Town Project at Rajarhat, Kolkata, accorded by the Department of Environment, Government of West Bengal to the Department of Housing, Government of West Bengal vide Memo No. EN/1998/4W-8/99 dated 10th November, 1999 and Memo No. EN/P/90/4W-8/99(Pt.II) dated 30th January, 2003.
13. The project proponent should also abide by the NOC conditions accorded by the West Bengal Pollution Control Board to the Department of Housing, Government of West Bengal for the proposed New Town Project at Rajarhat, Kolkata, vide Sl. No. 04462 Memo No. 1295-175/WPB-NOC/99-2000 dated 31st August, 1999 and Sl. No. NO10868 Memo No. 7041-175/wpb/NOC/99-2000 dated 9th June, 2004.
14. 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 and Handling) Rules, 1989, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.
15. The final Environmental Clearance shall be accorded by the State Environmental Impact Assessment Authority after submission of sanctioned building plan by concerned authority and necessary documents and consideration of the same by the State Level Expert Appraisal Committee.



(Sandipan Mukherjee)

Secretary

State Expert Appraisal Committee &
Member Secretary, WBPCB



(Prof. S. Sanyal)

Chairman

State Expert Appraisal Committee