COMPLIANCE REPORT

for

Proposed Residential complex

at

Premises No. – 1, Kashinath Dutta Road, Baranagar Municipality, Dag No. – 921 to 925, J.L. No. – 8, P.S. – Baranagar, Dist. – 24 Paraganas (N), West Bengal

SUBMITTED TO

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE,

EASTERN REGIONAL OFFICE,

A/3, CHANDRASHEKHARPUR, BHUBANESHWAR - 751023

Project Proponent

M/s. Square Four Housing & Infrastructure Development Pvt. Ltd.

(formerly known as M/s. Overflow Tradelink Pvt. Ltd.)

238A, A.J.C. Bose Road, 2nd Floor, Suit – 2B, Kolkata - 700020

Compliance Report of Environmental Clearance for construction of Residential complex at Premises No. – 1, Kashinath Dutta Road, Baranagar Municipality, Dag No. – 921 to 925, J.L. No. – 8, P.S. – Baranagar, Dist. – 24 Paraganas (N), West Bengal

1. **Project Code :** 110-259 **File No. :** 110-259/17/EPE
2. **Name of the Project :** Residential Complex by M/s Square Four Housing & infrastructure Development Pvt. Ltd. (formerly known as M/s. Overflow Tradelink Pvt. Ltd.)
3. **Clearance letter no. with date :** 2331/EN/T-II-1/071/2015 dated 21/10/2016
4. **Period of Compliance Report :** April, 2017 to September, 2017

Salient Features of the project, for which Environmental Clearance was obtained

No. of Blocks with Storied	3 Blocks of (B+G+18) configuration
No. of flats	324 Nos.
Land Area	9696.940 sqm (2.396 acres)
Gifted Land Area	812.186 sqm
Net Land Area	8884.754 sq.m
Latitude & Longitude	22^0 37'55''N & $88^0$22'37''E
Expected Population	1801 (Residents – 1512, temporary – 289) persons
Total Water Requirement	268.5 KLD
Fresh Water Requirement	172.5 KLD (Municipal supply)
Wastewater generated	219 KLD (to be treated in STP)
Treated Wastewater reused	96 KLD (to be used in toilet flushing, landscaping & road washing)
Treated Wastewater discharged	123 KLD (to municipality drain)
Solid waste disposal	0.948 TPD (to be disposed off through on-site compost plant & Baranagar Municipality)
Total Built – up Area	37444.12 sq.m
Ground Coverage	2033.36 sq.m (22.886% of net land area)
Total Paved Area	2216.763 sq.m (24.95% of net land area)
Exclusive Tree Plantation Area	1794.41 sq.m (20.197% of net land area)
Service Area	392.808 sq.m (4.421% of net land area)
Extended Basement Area	1644.56 sq.m (18.51% of net land area)
Plantation proposed	Proposed – 120, (Existing – 28: to be felled – 15 nos., to be retained – 13 nos.) Compensatory plantation – 75 nos.
No. of Parking spaces proposed	324 nos. (Basement – 180, Ground Floor – 26, Open – 118)
Total Power requirement	1700 KVA
Solar Street lights proposed	20 nos.

Use of Solar Power	At least 27 KW of solar power to be generated and utilized excluding standalone solar street lights as proposed.
Backup Power	DG sets (2 nos. X 320 KVA)

The piling work has been completed for the project. Construction work for the basement has been taken up.

The compliance status of the special conditions and general conditions, as issued by SEIAA, West Bengal in the above mentioned Environmental Clearance is discussed below:

I. Part A – SPECIFIC CONDITIONS

Sr. No.	Conditions	Compliance Status
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. Water usage during construction should be optimized to avoid any wastage.	Drinking water is being provided by Baranagar Municipality and wastewater is being treated in the septic tank – soak pit system. Solid waste is being dumped in a designated site within the project premises and finally will be collected by the concerned civic body.
ii.	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.	Proper sanitation facilities like toilet is being provided for the construction workers. Septic Tank is being maintained at site for the construction labourers as well as for other staff for treatment of domestic waste water.
iii.	The scaffolds, stairs and platforms for construction works and the workers must be secured as far as possible to prevent any accident.	Basement construction work has been taken up.
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	All appropriate personnel protective equipment (PPE) are strictly being used by the construction workers. It was also clearly written in the work order of the contractors. Regular supervision is done by the Management team.

	doing work that needs such protection, if any.	
v.	Rest and convenience shelter for workers with crèche facilities, if required, particularly for women, must be provided with proper toilet facilities.	Proper facilities like Rest Room, Toilet etc. is being provided particularly for women.
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 ensuring construction activities.	All the excavated top soil is currently stored under cover. This topsoil will later be used for horticulture / landscape development. The run-off from the site shall be passed through sedimentation trap to prevent erosion.
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.	The plot was a vacant land with few dilapidated structures. The dilapidated structures have been demolished and the demolition debris have been used for site development 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.	Muck is being handled properly. Muck including excess excavated material is being disposed off at regular intervals in the designated site as per the advice of Baranagar Municipality.
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.	Construction activities are being done by electricity supplied by CESC. No Diesel Generator sets are being used for construction work.
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.	PUC certificate of each construction vehicle is being checked at regular intervals.
vi.	Ambient noise levels should conform to residential standards both during day and night. Fortnightly monitoring of ambient air quality (SPM, SO_2 and NO_x) and equivalent noise levels should be ensured during construction phase.	No construction activity is being carried out in night time. Detailed Ambient Air Quality (PM_{10}, $PM_{2.5}$, SO_2 & NO_2) and Noise Monitoring report in the project site has been attached in **Annexure 1**.
vii.	Construction spoils including bituminous	It is being taken care that oil from

	material and other hazardous materials including oil from construction equipment 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.	construction equipment does not contaminate watercourses and the dumpsites are secured.
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.	Regular supervision and quality checks are being carried out at the project site.
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 night time.	All the loading and unloading operations are being carried out during day time. Piling work has been completed. Basement construction work has started.
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.	No driven piles are being used. Only DMC piles are being cast in-situ.
xi.	15 m – 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.	Basement construction work is being carried out. Screen of appropriate height and adequate sprinkler arrangement shall be made when work regarding super construction starts. Majority of the construction materials are being stored in the godown. Sand, stone chips etc. are being stored in covered place within project area.
xii.	Use the Ready – mix concrete is recommended for this project.	RMC is being used in this project.
xiii.	Adequate measures to be adopted to avoid wastage of water for curing of concrete structures.	Curing of concrete is being done by wrapping with moist sack, so that the water wastage can be minimized.
xiv.	Adequate mitigative measures should be adopted to control dust emissions, noise	Already discussed above.

	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.	Locally available construction materials like sand, stone chips, cement etc. is being procured for the construction activities.
xvi.	Promotion of use of cleaner fuel and fuel quality improvement should be done. Excessive energy consumption and fuel usage should be avoided.	Cooking gas is being provided for the construction workers. Electricity for the construction work is being provided by CESC.
xvii.	Accumulation / stagnation of water should be avoided to ensure vector control.	It is being ensured that water doesn't get accumulated within the project site.
Selection of materials for better energy efficiency:-		
i.	Use of energy efficient construction materials should be ensured to achieve the desired thermal comfort.	Energy efficient construction materials are being used for the construction activities.
ii.	Design layout should ensure adequate solar access and ventilation. Proper planning and window design for daylight integration should be considered.	Designing has been done in such a way so as to ensure proper natural lighting and ventilation.
iii.	Fly Ash is to be used for construction as per Notification No. S.O. 763(E) dated 14.09.1999 amended vide Notification No. S.O. 979(E) dated 27.08.2003 and S.O. 2804(E) dated 03.11.2009 of the Ministry of Environment & Forests, Govt. of India.	Fly ash bricks are being used for the construction as much as possible.
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.	Design has been done as per The West Bengal Municipal Building Rules, 2007 as well as NBC-2005 considering the seismic zone relevant for this zone. The Plan was already sanctioned by Baranagar Municipality.
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.	Efficient and advanced construction technologies are being adopted using materials with low embodied energy during construction activities.
vi.	The building will be constructed and provisioned to use natural sunlight to the maximum during the day time, during use.	Designing of the building has been done in such a way so as to ensure maximum use of natural light.
vii.	Use of alternate building materials and alternate construction techniques should be considered apart from the conventional materials and methods. Use of hollow unit	Light weight cement blocks are being used in partitions.

	masonry should be considered.	
viii.	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. Adequate number of solar lights should be installed for external lighting as per norms. All common area lighting will be LED system.	LED lamps shall be used. 50% of street lights shall be solar powered (20 nos.) and the rest would be conventional lights.
ix.	Solar water heating arrangement will be done for water heating.	Provision of solar water heating arrangement shall be made.
x.	Passive solar cooling to be incorporated in building design. Buildings should be oriented for ensuring natural ventilation and day lighting.	Building has been designed in such a manner so that the maximum day light may be used thus reducing the electricity load. Openings in the east and west faces of wall are being minimized to reduce the heat gain.
xi.	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.	Proper insulation of the roof shall be done and solar reflective tiles shall be used.
xii.	Use of high albedo or reflective pavements to keep parking lots, pavements and inside roads cool should be incorporated.	Reflective Paver's blocks shall be used in the semi-paved areas.
xiii.	Guidelines to the occupants should include usage efficiency measures such as energy efficient lighting and water efficient system.	During agreement with the occupants ways to efficiently use energy and water would be explicitly mentioned.
xiv.	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.	Paver's blocks shall be used. Trees shall be planted along the sides of paved roads so as to provide shade.
xv.	Adequate open space, greenery and water bodies to be provided as per rules.	Only 2033.36 sqm i.e. 22.886% of net land area is ground coverage area. Rest 77.114% of the net land area is open space & greenery.
xvi.	Any proposed building with air – conditioning facility should follow the norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency. Chillers should be CFC & HCFC free.	Individual air conditioners will be used, which shall be CFC & HCFC free as per ECBC-2007.
xvii.	Restrict the use of glazed surface as per National Building Code 2005.	Use of glazed surfaces and glass shall be minimum as it is a residential complex.
Water Body Conservation:-		
i.	Water body, if any, should not be lined and	There is no water body within the

	their embankments should not be cemented. The water body is to be kept in natural conditions without disturbing the ecological habitat.	project premises.
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.	1794.41 sqm (20.197% of net land area) shall be exclusive tree plantation area. Total no. of trees: Proposed – 120, (Existing – 28: to be felled – 15 nos., to be retained – 13 nos.) Compensatory plantation – 75 nos. Thus, total plantation will be 120+75+13 = 208.
ii.	No tree can be felled without prior permission from the Tree Cutting Authority constituted as per the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006 and subsequent rules.	15 nos. of trees shall be felled. Tree Cutting Permission has already been obtained. 75 nos. of trees shall be planted as compensatory plantation.
iii.	The proponent should plant atleast 120 nos. of trees, as proposed in addition to the compensatory plantation of 75 nos. of trees and the existing trees to be retained. Indicative list of species is given at Annexure – I. 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.	120 nos. of trees shall be planted in addition to the compensatory plantation of 75 nos. of trees and 13 nos. of existing trees shall be retained. Indicative list of species is given at **Annexure – 2**.
	Provision of Roof Top Gardening is mandatory.	Provision of roof top gardening shall be made.
Water Supply:-		
i.	Water requirement during construction phase shall be met from municipal supply. Ground water should not be abstracted without prior permission obtained from the competent authority as per the West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.	Water during construction phase is being provided by Baranagar Municipality Water supply. Water quality test report has been provided in **Annexure – 3**.
Sewage Treatment Plant:-		
i.	As per the proposal submitted by the Proponent wastewater shall be treated in septic tank to soak pit. Construction wastewater to be collected in sedimentation trap with adequate retention time and to be reused.	Wastewater is being treated in septic tank to soak pit. Construction wastewater is being collected in sedimentation trap with adequate retention time and is being reused.
Storm water Management & Mitigation of Heat Island Effect:-		
i.	Imperviousness of the site shall not exceed	Imperviousness of the site does not

	the NBC (National Building Code 2005) standards for imperviousness factor applicable to different types of area.	exceed the NBC (National Building Code 2005) standards for imperviousness factor.
ii.	Total paved area of site under parking, roads, paths or any other use should not exceed 25% of the site area.	2216.763 sqm (24.95% of net land area) constitutes total paved 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.	In the open parking area, hollow concrete paver's blocks shall be used.
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.	The drainage network has been designed considering the invert level of outfall i.e. Municipal drain, so that the surroundings settlements may not disturbed.
v.	Disruption to the natural hydrology of the site should be minimized by reducing impervious cover, increasing on site infiltration and managing storm water runoff.	The ground coverage is less and open area is more. Hollow pavers blocks will be used in open parking areas as much as possible to increase the infiltration.
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.	The trees will be planted beside roads in such a manner so that the foliage of trees may cover the roads and other paved areas, which shall minimize the heat island effect.
Rainwater 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).	Rainwater harvesting shall be started after completion of construction following the Rainwater Harvesting Guidelines of the State Expert Appraisal Committee (SEAC).
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.	Rainwater collected in roof-top catchments shall be reused after adequate retention time.
iii.	Storage capacity of 200 KL for harvested rainwater to be provided as proposed.	200 KL rainwater harvesting tank shall be provided.
iv.	Adequate firefighting storage should be provided as per norms.	Firefighting tank has been provided.
Municipal Solid Waste Management :-		
i.	Adequate provision shall be made for	An area shall be earmarked as MSW

	storage of solid waste and adequate means of access shall be provided.	management site with proper means of access.
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.	Both internal and external traffic planning and management has been properly done.
ii.	The design of service road and the entry and exit from the project area should confirm 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.	Proper traffic management plan shall be made.
iii.	Clarified wastewater will be used for sprinkling water on the unpaved internal roads on a regular basis.	Treated wastewater shall be used for sprinkling water on the unpaved internal roads on a regular basis.
Others		
i.	All mandatory approvals and permission as required from Director of Explosives, Fire Department etc. should be obtained.	NOC from Fire Department has already been obtained, enclosed as **Annexure - 4**.
ii.	Provision of Effective Controls and Building Management Systems such as Automatic Fire Alarm and Fire Detection and Suppression System etc. must be ensured.	Proper fire-fighting arrangements shall be in place as soon as the construction phase is completed.
iii.	Efficient management of indoor air quality must be ensured for health and safety of the users.	Efficient management of indoor air quality shall be ensured.
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.	Water conservation methods shall be adopted.
v.	Rest room facilities should be provided for service population.	Rest rooms shall be provided for service population.
vi.	Adequate access to fire tenders should be provided.	Proper access to fire tenders have been provided.

II. Part B – GENERAL CONDITIONS

Sr. No.	Conditions	Compliance Status
i.	The environmental clearance accorded shall be valid for a period of 7 years for the proposed project.	Environmental clearance for the proposed project has been received on 21.10.2016. Copy of Environmental clearance has been attached as **Annexure – 5.**
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 the project proponent from the competent authorities.	Consent-to-Establish (NOC) for the proposed project has been received from WBPCB (Memo No. - 806-2N-70/2015(E) dated 14.12.2016). Copy of Consent-to-Establish (NOC) has been attached as **Annexure – 6.**
iii.	The proponent should maintain a display board at the site, providing detailed information on the salient features of the proposed project.	A display board is already placed at the site, providing detailed information on the salient features of the proposed project.
iv.	The environmental safeguards contained in the EIA/EMP report should be implemented in letter and spirit.	The points mentioned in EIA/EMP report for construction phase is implemented. The points mentioned in EIA/EMP report for operational phase shall be implemented.
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.	All the conditions, liabilities and legal provisions contained in the EC shall be explained to and followed by 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.	Cooking gas is being provided for the construction workers. Work orders are being issued only after the workers have been screened for health.
vii.	The project proponent should make financial provision in the total budget of the project for implementation of the suggested safeguard measures.	Financial provision in the total budget of the project for implementation of the suggested safeguard measures have been made.
viii.	Six monthly monitoring reports should be	Six monthly monitoring reports shall

	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.	be submitted to the West Bengal Pollution Control Board. A complete set of all the documents shall 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.	The conditions laid down in the Environmental Clearance shall not be violated.
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 Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.	Agreed
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 the 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 of the locality concerned.	It has already been advertised for the local people 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 the website of the SEIAA, West Bengal (http://environmentwb.gov.in) on 27.10.2016 in Ei Somoy (Bengali newspaper) and on 27.10.2016 in Hindustan Times (English newspaper) (enclosed as **Annexure - 7**).
xii.	All other statutory clearances such as the approvals for the storage of diesel from Chief Controller of Explosives, Civil	All other statutory clearances, like NOC from the Fire Department have already been obtained.

	Aviation Department (if required) etc. shall be obtained by the project proponents from the competent authorities.	

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,
UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ –2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com
Web : www.envirotecheast.com

Onsite Ambient Air Quality Monitoring Results				
	Location	Project Site		
(Period: April, 2017)				
DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
03.04.2017	86	34	12	31
06.04.2017	101	47	11	36
10.04.2017	89	35	13	27
13.04.2017	78	32	8	26
17.04.2017	86	36	13	30
21.04.2017	98	38	11	25
24.04.2017	107	43	13	34
27.04.2017	73	30	14	28

Onsite Ambient Air Quality Monitoring Results				
	Location	Cossipur Peara Bangan		
(Period: April, 2017)				
DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)
03.04.2017	93	38	10	28
06.04.2017	86	38	7	26
10.04.2017	106	50	11	29
13.04.2017	76	32	9	23
17.04.2017	80	36	12	25
21.04.2017	92	43	8	34
24.04.2017	81	32	7	29
27.04.2017	76	33	12	24

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,
UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ **–2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com**
Web : **www.envirotecheast.com**

Onsite Ambient Air Quality Monitoring Results				
	Location	Project Site		
(Period: May, 2017)				
DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
02.05.2017	94	41	18	24
05.05.2017	80	32	13	31
09.05.2017	99	35	11	29
13.05.2017	86	35	14	38
16.05.2017	98	37	12	33
20.05.2017	106	42	15	30
23.05.2017	93	33	9	24
27.05.2017	104	44	16	34

Onsite Ambient Air Quality Monitoring Results				
	Location	Cossipur Peara Bangan		
(Period: May, 2017)				
DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
02.05.2017	108	40	8	22
05.05.2017	87	41	10	18
09.05.2017	75	32	12	33
13.05.2017	79	33	13	28
16.05.2017	88	38	9	34
20.05.2017	103	47	6	30
23.05.2017	85	40	12	35
27.05.2017	81	34	10	28

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,

UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ –2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com

Web : www.envirotecheast.com

Onsite Ambient Air Quality Monitoring Results				
	Location	Project Site		
(Period: June, 2017)				
DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
01.06.2017	97	42	10	39
05.06..2017	93	35	17	32
08.06.2017	118	50	15	29
12.06.2017	90	35	14	26
15.06.2017	110	47	20	37
19.06.2017	94	39	15	30
22.06.2017	70	27	12	35
26.06.2017	92	36	16	28
29.06.2017	77	35	9	32

Onsite Ambient Air Quality Monitoring Results				
	Location	Cossipur Peara Bangan		
(Period: June, 2017)				
DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
01.06.2017	90	40	8	26
05.06..2017	94	43	12	30
08.06.2017	99	35	9	25
12.06.2017	74	30	12	34
15.06.2017	86	33	8	29
19.06.2017	94	38	14	26
22.06.2017	104	37	11	20
26.06.2017	85	36	7	26
29.06.2017	93	35	10	31

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,
UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ **–2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com**
Web : **www.envirotecheast.com**

Table		Statistical Analysis of Pollutants (Period: April, 2017 to June, 2017					
Pollutants	**Locations**	**MES**	**Min**	**Max**	**A.M.**	**S.D.**	**P - 98**
PM_{10} ($\mu g/m^3$)	Project Site	25	70	118	92.8	11.8	114.2
	Cossipur Peara Bangan	25	74	108	88.6	10.0	107.0
	Overall	**50**	**70**	**118**	**90.7**	**1.3**	**114.0**
$PM_{2.5}$ ($\mu g/m^3$)	Project Site	25	27	50	37.6	5.7	48.6
	Cossipur Peara Bangan	25	30	50	37.3	4.8	48.1
	Overall	**50**	**27**	**50**	**37.5**	**0.6**	**48.5**
SO_2 ($\mu g/m^3$)	Project Site	25	8	20	13.2	2.9	19.0
	Cossipur Peara Bangan	25	6	14	9.9	2.2	13.5
	Overall	**50**	**6**	**20**	**11.6**	**0.5**	**18.9**
NO_2 ($\mu g/m^3$)	Project Site	25	24	39	30.7	4.3	38.5
	Cossipur Peara Bangan	25	18	35	27.7	4.4	34.5
	Overall	**50**	**18**	**39**	**29.2**	**0.1**	**38.4**

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,

UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ –2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com

Web : www.envirotecheast.com

Ambient Air Quality Monitoring Results				
	Location	Project Site		
(Period: July, 2017)				
DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
02.07.2017	66	28	7	19
05.07.2017	64	26	9	14
09.07.2017	78	30	10	22
12.07.2017	86	33	8	29
16.07.2017	91	38	9	18
19.07.2017	84	34	7	13
23.07.2017	78	28	11	27
26.07.2017	91	33	9	21

Ambient Air Quality Monitoring Results				
	Location	Cossipur Peara Bangan		
(Period: July, 2017)				
DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
02.07.2017	61	23	9	22
05.07.2017	48	18	5	19
09.07.2017	66	30	7	20
12.07.2017	60	25	6	24
16.07.2017	57	23	7	17
19.07.2017	68	29	8	22
23.07.2017	55	20	6	16
26.07.2017	49	17	8	20

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,

UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ –2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com

Web : www.envirotecheast.com

Ambient Air Quality Monitoring Results				
	Location	Project Site		
(Period: August, 2017)				
DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
02.08.2017	57	21	9	20
06.08.2017	60	23	8	25
09.08.2017	51	20	11	18
13.08.2017	58	26	8	22
16.09.2017	71	29	9	25
20.08.2017	67	27	10	21
23.08.2017	58	23	7	26
27.08.2017	55	21	12	19
30.08.2017	56	21	11	29

Ambient Air Quality Monitoring Results				
	Location	Cossipur Peara Bangan		
(Period: August, 2017)				
DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
02.08.2017	62	25	7	17
06.08.2017	54	21	8	18
09.08.2017	68	29	10	23
13.08.2017	64	26	9	19
16.09.2017	83	30	7	25
20.08.2017	57	20	10	20
23.08.2017	61	26	7	18
27.08.2017	46	17	4	14
30.08.2017	52	19	5	11

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,
UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ **–2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com**
Web : **www.envirotecheast.com**

Ambient Air Quality Monitoring Results				
	Location	Project Site		
(Period : September, 2017)				
DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
03.09.2017	69	28	8	20
06.09.2017	75	31	13	25
10.09.2017	63	24	9	20
13.09.2017	53	21	8	14
17.09.2017	72	33	10	23
20.09.2017	63	25	8	30
24.09.2017	57	23	12	21
27.09.2017	48	18	8	18

Ambient Air Quality Monitoring Results				
	Location	Cossipur Peara Bangan		
(Period : September, 2017)				
DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)
03.09.2017	60	25	4	15
06.09.2017	41	14	6	12
10.09.2017	63	24	5	18
13.09.2017	57	22	4	10
17.09.2017	48	19	5	11
20.09.2017	55	23	7	19
24.09.2017	44	16	11	21
27.09.2017	51	20	7	17

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,
UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ **–2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com**
Web : **www.envirotecheast.com**

Table		Statistical Analysis of Pollutants (Period: July, 2017 to September, 2017)				
Pollutants	**Locations**	**MES**	**Min**	**Max**	**A.M.**	**P - 98**
PM_{10} ($\mu g/m^3$)	Project Site	25	48	91	66.8	91.0
	Cossipur Peara Bangan	25	41	83	57.2	75.8
	Overall	**50**	**41**	**91**	**62.0**	**90.7**
$PM_{2.5}$ ($\mu g/m^3$)	Project Site	25	18	38	26.5	36.0
	Cossipur Peara Bangan	25	14	30	22.3	29.8
	Overall	**50**	**14**	**38**	**24.4**	**35.9**
SO_2 ($\mu g/m^3$)	Project Site	25	7	13	9.2	12.5
	Cossipur Peara Bangan	25	4	11	6.9	10.5
	Overall	**50**	**4**	**13**	**8.1**	**12.5**
NO_x ($\mu g/m^3$)	Project Site	25	13	30	21.6	29.5
	Cossipur Peara Bangan	25	10	25	17.9	24.5
	Overall	**50**	**10**	**30**	**19.7**	**29.4**

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,
UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ –2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com
Web : www.envirotecheast.com

Equivalent Noise Level in the Study Area, in dB(A)
Month: April, 2017

SL.NO.	Location	DAY TIME	NIGHT TIME
		Leq- dB (A)	Leq- dB (A)
1	Project Site	66.9	50.9
2	Nainan para	60.5	48.2
3	Satchashi Para	62.3	50.7
4	Kalicharan Para (Sinthee)	65.1	50.2

Equivalent Noise Level in the Study Area, in dB(A)
Month: May, 2017

SL.NO.	Location	DAY TIME	NIGHT TIME
		Leq- dB (A)	Leq- dB (A)
1	Project Site	68.2	52.5
2	Nainan para	62.4	51.7
3	Satchashi Para	61.8	49.1
4	Kalicharan Para (Sinthee)	63.6	48.4

Equivalent Noise Level in the Study Area, in dB(A)
Month: June, 2017

SL.NO.	Location	DAY TIME	NIGHT TIME
		Leq- dB (A)	Leq- dB (A)
1	Project Site	70.7	55.2
2	Nainan para	65.5	50.7
3	Satchashi Para	64.6	51.1
4	Kalicharan Para (Sinthee)	64.9	52.3

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,
UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ –2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com
Web : www.envirotecheast.com

Equivalent Noise Level in the Study Area, in dB(A)
Month: July, 2017

SL.NO.	Location	DAY TIME	NIGHT TIME
		Leq- dB (A)	Leq- dB (A)
1	Project Site	67.8	52.5
2	Nainan para	61.3	49.6
3	Satchashi Para	63.4	50.8
4	Kalicharan Para (Sinthee)	60.5	48.2

Equivalent Noise Level in the Study Area, in dB(A)
Month: August, 2017

SL.NO.	Location	DAY TIME	NIGHT TIME
		Leq- dB (A)	Leq- dB (A)
1	Project Site	68.4	55.4
2	Nainan para	59.5	47.7
3	Satchashi Para	60.7	48.1
4	Kalicharan Para (Sinthee)	58.5	47.4

Equivalent Noise Level in the Study Area, in dB(A)
Month: September, 2017

SL.NO.	Location	DAY TIME	NIGHT TIME
		Leq- dB (A)	Leq- dB (A)
1	Project Site	69.9	54.9
2	Nainan para	62.1	49.8
3	Satchashi Para	64.2	50.2
4	Kalicharan Para (Sinthee)	62.7	51.2

Out of the 28 trees present at the project site, 15 nos. of trees shall be felled & 13 nos. of trees shall be retained. Compensatory plantation shall be done i.e. 75 nos. of trees shall be planted.

Indicative list of selected plant species with tentative numbers for plantation are presented below:

List of trees proposed for plantation

(Including compensatory plantation)

Sl. No.	Botanical Name	Common Name	Quantity
1	*Mimusops elengi*	Bakul	30
2	*Lagerstroemia speciosa*	Jarul	30
3	*Delonix regia*	Gulmohar/Krishnachura	10
4	*Alstonia scholaris*	Chatim	30
5	*Azadirachta indica*	Neem	25
6	*Bauhinia variegata*	Kanchan	20
7	*Anthocephalus cadamba*	Kadam	10
8	*Peltophorum pterocarpum*	Radhachura	5
9	*Artocarpus heterophyllus*	Kanthal	5
10	*Michelia champaca*	Champa	5
11	*Polyalthia longifolia*	Devdaru	25
Total			**195**

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,
UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ **–2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com**
Web : **www.envirotecheast.com**

Ground Water		April, 2017	
GW1	**Municipality Supply Water**		
Sl. No.	**Parameter**	**Unit**	**SAMPLE CODE : GW 1**
1	Colour		Colourless
2	Odour		Unobj.
3	Taste		Agree
4	Turbidity	NTU	<2
5	pH		7.3
6	Conductivity	µmhos/cm	396
7	Total Hardness (as $CaCO_3$)	mg/L	118
8	Iron (as Fe)	mg/L	0.13
9	Chloride (as Cl)	mg/L	44
10	Residual Free Chlorine	mg/L	nil
11	Fluoride (as F)	mg/L	0.10
12	Total Dissolved Solids	mg/L	218
13	Calcium (as Ca)	mg/L	34
14	Magnessium (as Mg)	mg/L	8
15	Copper (as Cu)	mg/L	<0.05
16	Manganese (as Mn)	mg/L	<0.05
17	Sulphate (as SO_4)	mg/L	4
18	Nitrate (as NO_3)	mg/L	1.6
19	Phenol Compounds (as C_6H_5OH)	mg/L	<0.001
20	Mercury (as Hg)	mg/L	<0.001
21	Cadmium (as Cd)	mg/L	<0.01
22	Arsenic (as As)	mg/L	<0.002
23	Lead (as Pb)	mg/L	<0.05
24	Zinc (as Zn)	mg/L	<0.05
25	Hexavalent Chromium (asCr^{+6})	mg/L	<0.05
26	Alkalinity (as $CaCO_3$)	mg/L	147
27	Boron (as B)	mg/L	<0.02
28	Total Coliforms	MPN/100 ml	absent

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,
UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ **–2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com**
Web : **www.envirotecheast.com**

Ground Water		September, 2017	
GW1	**Municipality Supply Water**		
Sl. No.	**Parameter**	**Unit**	**SAMPLE CODE : GW 1**
1	Colour		Colourless
2	Odour		Unobj.
3	Taste		Agree
4	Turbidity	NTU	<2
5	pH		7.1
6	Conductivity	µmhos/cm	407
7	Total Hardness (as $CaCO_3$)	mg/L	123
8	Iron (as Fe)	mg/L	0.18
9	Chloride (as Cl)	mg/L	50
10	Residual Free Chlorine	mg/L	nil
11	Fluoride (as F)	mg/L	0.13
12	Total Dissolved Solids	mg/L	224
13	Calcium (as Ca)	mg/L	36
14	Magnessium (as Mg)	mg/L	8
15	Copper (as Cu)	mg/L	<0.05
16	Manganese (as Mn)	mg/L	<0.05
17	Sulphate (as SO_4)	mg/L	4
18	Nitrate (as NO_3)	mg/L	2.3
19	Phenol Compounds (as C_6H_5OH)	mg/L	<0.001
20	Mercury (as Hg)	mg/L	<0.001
21	Cadmium (as Cd)	mg/L	<0.01
22	Arsenic (as As)	mg/L	<0.002
23	Lead (as Pb)	mg/L	<0.05
24	Zinc (as Zn)	mg/L	0.08
25	Hexavalent Chromium (asCr^{+6})	mg/L	<0.05
26	Alkalinity (as $CaCO_3$)	mg/L	149
27	Boron (as B)	mg/L	<0.02
28	Total Coliforms	MPN/100 ml	absent

Envirotech East Pvt. Limited

An ISO 9001:2008, 14001:2004 & OHSAS:18001:2007 Company

Laboratory Recognised by Ministry of Environment & Forests, Govt. of India

CIN NO : U74210WB1989PTC047403

Bengal Ambuja Commercial Complex,

UN-F 13, 1050/1, Survey Park, Kolkata –700 075

☎ –2418 8127/8128/8601; Fax –2418 8128; email: eeplkol@gmail.com, eeplkol2@gmail.com

Web : www.envirotecheast.com

PHYSICO-CHEMICAL CHARACTERISTICS OF SOIL IN THE STUDY AREA			
(MONTH : June, 2017)			
S.N.	PARAMETERS AND UNIT	SAMPLING LOCATIONS	
		SQ-1	SQ-2
PHYSICAL CHARACTERESTICS			
1	Colour	Brown Clay	Brown Clay
2	Texture	Clay Loam	Sandy Loam
3	Bulk Density (g/cm^3)	1.44	1.52
4	Porosity (%)	39.7	38.8
5	Water Holding Capacity (%)	38.9	39.1
CHEMICAL CHARACTERESTICS			
1	pH	5.4	5.6
2	EC (µmhos/cm)	502	497
3	Calcium (%)	0.62	0.58
4	Magnesium (%)	0.66	0.54
5	Sodium (%)	0.44	0.41
6	Potassium (%)	0.33	0.36
7	Sulphur (%)	0.25	0.3
8	Nitrogen (%)	0.35	0.37
9	Phosphorus (%)	0.12	0.14
10	CEC (meq/100 g)	24.4	25.3
11	Organic Matter (%)	2.1	2.3
12	Copper (mg/Kg)	19.2	16.8
13	Chromium (mg/Kg)	60.4	58.8
14	Zinc (mg/Kg)	19.9	21.6
15	Lead (mg/Kg)	12.8	15.1
16	Boron (mg/Kg)	2.1	2.4

LOCATION CODE:	
SQ-1:	Near Project Site
SQ-2:	Cossipur Peara Bangan

GOVERNMENT OF WEST BENGAL
OFFICE OF THE DIRECTOR GENERAL
WEST BENGAL FIRE & EMERGENCY SERVICES
13-D, Mirza Galib Street, Kolkata – 700 016.

Memo. No. : WBFES/ 6150 /15 /Kol/RB/531/15 (531/15) *Date* : 12.08.15

From : **The Director,**
Fire Prevention Wing,
West Bengal Fire & Emergency Services.

To : Mr. Anirban Bhaduri Mandal,
INNATE,
Udayan Park,
26/2, Ballygunge Circular Road,
Kolkata-700 019.

Sub : Fire Safety Recommendation for proposed construction of B+G+XVIII storied Residential Building having 3nos Block at premises No.- 1, Kashinath Dutta Road, Kolkata-700 036, Dag No-521 to 525, Khatian No-549, J.L. No-08, P.S.-Baranagar, Kolkata-700 036 under Baranagar Municipality, Dist.-24Pgs(N).

This is in reference to your letter No. Nil dated 14.05.2015 regarding Fire Safety measure for proposed construction of B+G+XVIII storied Residential Building having 3nos Block at premises No.- 1, Kashinath Dutta Road, Kolkata-700 036, Dag No-521 to 525, Khatian No-549, J.L. No-08, P.S.-Baranagar, Kolkata-700 036 under Baranagar Municipality, Dist.-24Pgs(N).

The plan drawing submitted by you was scrutinized and marked as found necessary from fire safety point of view. In returning one set of plan with recommendation, this office is issuing **Fire Safety Recommendation** in favour of the aforesaid building subject to the compliance of the following fire safety measure.

Enclo. :

1. One set of plan.
2. Recommendation placed in this file.

DIRECTOR
FIRE PREVENTION WING
WEST BENGAL FIRE & EMERGENCY SERVICES

RECOMMENDATION

A. CONSTRUCTION :

1. The whole construction of the proposed building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body (Bidhannagar / Kolkata Municipal Corporation).
2. The floor area exceeds 750m^2 shall be suitably compartmented by separation walls up to ceiling level having at least two hours Fire resisting capacity.
3. The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
4. Provision of ventilation at the crown of the central core-duct of the building shall be provided.
5. Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity.

B. OPEN SPACE & APPROACH :

1. The open space surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire appliance with turning facility.
2. The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
3. The width and height of the access gates into the premises shall not be less than 4.5 – 5 M respecting abutting the road.

C. STAIRCASE :

1. The staircase of the building shall be enclosed type. Entire construction shall be made of bricks / R.C.C. type having Fire resisting capacity not less than 4 hours.
2. The staircase of the building shall have permanent vents at the top and openable sashes at each floor level in the external wall of the building.
3. The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conforming the relevant building rules with up-to-date amendments.
4. All the staircase shall be extended up to terrace of the building and shall be negotiable to each floor.
5. Fire and smoke doors at the entrances of all the Staircase enclosures as marked in the plan at each floor level shall be provided. The F.C.D. shall be of at least one hour Fire resisting wire glass window fitted with self-closing type openable in the direction of escape.

D. LIFT :

1. The walls of the lift enclosure shall be at least two hours Fire resisting type.
2. Collapsible gate shall not be permitted.
3. One of the lift shall be designed for Fire Lift. The word "FIRE LIFT". Shall conspicuously written at ground floor.
4. Lift and Lift Lobby communicate to the basement shall have to be pressurized as per guide line of N.B.C.-IV, Annex 'C'.

E. REFUGE AREA :

1. Refuge area is not less than 15 Sqm. Shall be provided on the external wall with cantilever projection or other suitable means at +21.600M, +36.100M, +50.600M levels of the building as shown in the drawings.

2. The Refuge areas shall be of Fire resisting construction and protected with self-closing F.C.D. at the entrance from the corridors at staircase lobbies.

3. The position of Refuge areas shall be such so that they are negotiable by the Fire Services Ladder from the Ground.

F. BASEMENT:

1. The basement shall be adequately ventilated.

2. Additional staircase from the open air as shown in the drawing shall be constructed beside the ramps conforming relevant I.S. Specification.

3. The basement shall be protected with Auto Sprinklers system/ hose reel system etc.

4. Mechanical extractor for Smoke Venting system from lower/upper basement levels shall also be provided. The system shall be of such design as to operate on actuation of heat/smoke sensitive detector or sprinkling. It shall also have an arrangement to start it manually.

5. Mechanical extractors shall have an alternative source of supply.

G. FIRE FIGHTING WATER :

Underground water reservoir having water capacity of 1,50,000 ltrs. and overhead reservoir of 25,000 ltrs. capacity each block exclusively for Fire fighting purpose with replenishing arrangements @ 1000 lts./min. Preferably from two different sources of water supply shall be provided. The water reservoir shall have overflow arrangement with the domestic water reservoir as well as to avoid stagnancy of water. The water reservoir shall be kept full at all time.

H. HYDRANT SYSTEM :

1 The building shall be provided with Wet Riser of 150 mm. internal diameter Pipe Line with provision of landing valves at the Staircase landings / half landings at the rate of one such riser for 1000 Sq.m. of floor area. The system shall be so designed that shall be kept charged with Water all the time under pressure and capable to discharge 2850 lts/min. at the ground floor level outlet and minimum 900lts/min. at the top most outlet. In both cases the running pressure shall not be less than 3.5Kgs/Sq.cm. All other requirements shall conforming I.S. 3844 – 1989.

2 Provision for Hose Reel in conjunction with Wet Riser shall be made at each floor level. Conforming the relevant I. S. Specifications.

3 Yard Hydrant/Ring Main Hydrant with provision of adequate numbers Hydrant shall be installed surrounding the building in accordance with relevant I.S. specifications.

I. SPRINKLER INSTALLATION:

1. The automatic Sprinkler installation shall be provided in Basement , lobby & corridor of all floor areas of the building as per I.S. 9972. Alarm gang to be incorporated along with the sprinkler system.

J. FIRE PUMP :

Provision of the Fire Pump shall have to be made to supply water at the rate-designed pressure and discharge into the Water based system, which shall be installed in the building. One such pump shall always be kept on stand-by preferably be of diesel driven type.

A Separate Fire pump shall preferably be made for the total Sprinkler Installation of the Building. Provision of Jockey Pump shall also have to be made to keep the Water based system under pressurized condition at all the time. All the pumps shall be incorporated with both manual and auto

starting facilities. The suction of pumps shall preferably of positive type or in case of negative suction the system shall be wet riser-cum-down comer with suitable terrace pump with overhead tank.

K. ELECTRICAL INSTALLATION & DISTRIBUTION :

1 The electrical installation including transformers, Switch Gears, Main & Meters etc. and the distribution system of the premises shall be made satisfying the code of practice for Fire safety in general building as laid down in I.S. specification 1946 – 1982.

2 The vertical & horizontal electrical ducts shall be sealed at each floor level for fire resisting material.

3 The electrical installation shall be adequately protected with CO_2/D.C.P. Fire Extinguishers.

4 Alternative Power Supply :

Arrangements shall have to be made to supply power with the help of a generator to operate at least the Fire Pump, Pump for deep Tube-well, Fire Alarm System, etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building incase of normal power failure.

L. DETECTION AND ALARM SYSTEM :

1. Manually operated Electrical Fire Alarm system with at least three numbers of break glass typecall boxes fitted with Hooters along with public address system, at each floor connecting with visual panel board shall be made in Control Room. The Control Room shall be located at the entrance of Ground Floor of the building, other requirements of the system shall be made conforming I.S. 2189 – 1988.

2. Auto fire detection system with the help of heat and smoke detector shall be installed in all places of below and preferably above false ceiling of the building. The system shall also be made in places of rooms where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S. 2189-1988.

3. The suppression system shall be made with Fire Extinguishers particularly in computer and electric processing and data room and in a room of irreplaceable articles.

4. Hooter will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will sounded on the same floor and immediate alternate floor.

5. **Public Address System** :-

Public address system linked between all floors and Control Room shall have to be established.

M. AIR CONDITIONING SYSTEM (If any) :

1. The A.H.U. shall be separated for each floor with the system Air Ducts for individual floors.

2. Arrangement shall be made for isolation at the strategic locations by incorporating auto dampers in the Air Conditioning system.

3. The system of auto shut down of A.H.U. shall be incorporated with the auto detection and alarm system.

4. The air handling units room shall not be used for storage of any combustible materials.

N. FIRST AID FIRE FIGHTING SYSTEM :

First Aid Fire fighting arrangement in the style of placing suitable type of portable Fire Extinguishers, Fire Buckets etc. in all floors and vulnerable locations of the premises shall be made in accordance with I.S. 2190 – 1992.

O. GENERAL RECOMMENDATIONS :

1 Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles.

2 Disposable type B.A. Musk to be kept always for emergency fire situation.

3 Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.

4 Floor numbers and directional sign of escape route shall be displayed prominently.

5 The employees and security staff shall be conversant with installed Fire Fighting equipments of the building and to operate in the event of Fire and Testing.

6 Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installation and equipments installed in the building to keep them in perfectly good working conditions at all times.

7 A crew of trained Fireman under the experienced Officer shall be maintained round the clock for safety of the building.

8 Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.

9 Each year a certificate is to be obtained from the **Director General, West Bengal Fire & Emergency Services** certifying about the satisfactory services performance of all the Life and Fire Safety arrangements and installation of the building.

On compliance of all the above Fire and Life safety recommendations, the **Director General, West Bengal Fire & Emergency Services** shall be approached for necessary inspection and testing of the installation, Fire Safety Certificate in favour of the occupancy shall be issued on being satisfied with the tests and performances of safety aspects of installation of the building.

N.B. : Any deviation and changes the nature of use of the building in respect of the approved plan drawing, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

DIRECTOR
FIRE PREVENTION WING
WEST BENGAL FIRE& EMERGENCY SERVICES

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. 2331 / EN/T-II-1/071/2015 Date : 21 / 10 /2016

To
M/s. Overflow Tradelink Pvt. Ltd.
238A, A.J.C. Bose Road
Second Floor, Suit 2B
Kolkata - 700 020

SUB. : Environmental Clearance for the proposed Residential Complex by M/s. Overflow Tradelink Pvt. Ltd. at Premises No. 1, Kashinath Dutta Road, Baranagar Municipality, Dag no-921 to 925, JL no-8, P.S-Baranagar, Dist-North 24 Parganas.

Sir,

This has a reference to your application submitted on 06/10/2015 and subsequent communications for environmental clearance for the proposed Residential Complex at Premises No. 1, Kashinath Dutta Road, Baranagar Municipality, Dag no-921 to 925, JL no-8, P.S-Baranagar, Dist-North 24 Parganas.

The proposal has been examined and processed in accordance with the EIA Notification, 2006. The proposed proposal is for consisting of 3 blocks (3xB+G+18 storied) with total nos. of flats-324.

It is noted that the salient features of the project for which Environmental clearance has been considered are given below:

Land Area	9696.940 sq.m (2.396 acres)
Gifted Land Area	812.186 sq.m
Net land area	8884.754 sq.m
Latitude & Longitude	$22^0$37'55"N & $88^0$22'37"E
Expected Population	1801(residents-1512, temporary-289) person
Total Water requirement	268.5 KLD
Fresh Water requirement	172.5 KLD (municipal supply)
Wastewater generated	219 KLD (to be treated in STP)
Treated Wastewater reused	96 KLD (to be used in toilet flushing, landscaping & road washing)
Treated Wastewater discharged	123 KLD (to municipality drain)
Solid waste disposal	0.948 TPD (to be disposed off through on-site compost plant & Baranagar municipality)

Total Built-up Area	37444.12 sq.m
Ground Coverage	2033.36 sq.m (22.886% of net land area)
Total paved area	2216.763 sq.m (24.95% of net land area)
Exclusive tree plantation area	1794.41 sq.m (20.197% of net land area)
Service area	392.808 sq.m (4.421% of net land area)
Extended basement area	1644.56 sq.m (18.51% of net land area)
Plantation proposed	Proposed-120 , (Existing- 28: to be felled-15 nos. to be retained-13) compensatory plantation-75 nos.
No. of Parking Spaces proposed	324 nos. (Basement – 180, Ground floor – 26, Open - 118).
Total Power requirement	1700 KVA
Solar street light proposed	20 nos.
Use of solar power	At least 27 KW of solar power to be generated and utilized excluding standalone solar street lights as proposed.
Backup Power	DG sets - 2x320 KVA

State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal, and 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

Facility of labourers during construction: -

i. Provision of drinking water, wastewater disposal and solid waste management should be ensured for labour camps. Water usage during construction should be optimized to avoid any wastage.
ii. 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.
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 NOx) 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 dump sites 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.
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. Fly Ash is to be used for construction as per Notification No. S.O. 763(E) dated 14.09.1999 amended vide Notification No. S.O. 979(E) dated 27.8.2003 and S.O. 2804(E) dated 03.11.2009 of the Ministry of Environment & Forests, Govt. of India.

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. The building will be constructed and provisioned to use natural sunlight to the maximum during the day time, during use.

vii. 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.

viii. 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. Adequate no. of solar lights should be installed for external lighting as per norms. All common area lighting will be LED system.

ix. Solar water heating arrangement will be done for water heating .

x. Passive solar cooling to be incorporated in building design. Buildings should be oriented for ensuring natural ventilation and daylighting.

xi. 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.

xii. Use of high albedo or reflective pavements to keep parking lots, pavements and inside roads cool should be incorporated.

xiii. Guidelines to the occupants should include usage efficiency measures such as energy efficient lighting and water efficient system.

xiv. 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.

xv. Adequate open space, greenery and water bodies to be provided as per rules.

xvi. Any proposed building with air-conditioning facility should follow the norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency. Chillers should be CFC & HCFC free.

xvii. 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 body is to be kept in natural conditions without disturbing the ecological habitat.

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 at least 20% of the total area.

ii. No tree can be felled without prior permission from the Tree Cutting Authority constituted as per the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006 and subsequent rules.

iii. The proponent should plant at least 120 nos. of trees as proposed in addition to the compensatory plantation of 75 nos. of trees and the existing trees to be retained. Indicative list of species is given at Annexure – I. 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.

iv. Provision for Roof Top Gardening is mandatory.

Water supply:-

i. Water requirement during construction phase shall be met from municipal supply. Ground water should not be abstracted with out prior permission obtained from 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 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. Storage capacity of 200 KL for harvested rainwater to be provided as proposed
iv. 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.

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 etc. must be ensured.

iii. Efficient management of indoor air quality must be ensured for health and safety of the users.
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.
v. Rest room facilities should be provided for service population.
vi. Adequate access to fire tenders should be provided.

II Operation Phase

Water supply :-

i. Water requirement during construction phase shall be met from ground water. Ground water should be abstracted as per prior permission obtained from 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 and records to be maintained. Use of water efficient devices / fixtures and appliances should be promoted.
iii. Dual plumbing system to be installed for maximum use of treated wastewater.
iv. The proponent must practice rainwater harvesting on regular basis.

Sewage Treatment Plant:-

i. As per the proposal submitted by the proponent, 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 will be discharged to municipal drain.
ii. Dedicated car cleaning area to be provided and car cleaning water to be collected and treated in STP.
iii. Water meter to be installed at STP inlet & discharge outlet point of treated water and regular records to be maintained.
iv. Provision for backup power for operation of STP during power failure should be made..

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.

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. Use of energy efficient electrical systems should be promoted. High efficiency lamps with electronic ballasts should be used.
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.
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.

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 with concerned authority.
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 municipal authority 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.

iv. 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 Corporate Social Responsibility programmes.
v. The proponent should abide by the Direction issued by the Department of Environment, Government of West Bengal, vide No. EN/3170/T-IV-7/001/2009 dated 10.12.2009.
vi. Environmental Management Information System shall be maintained properly.
vii. The proponent should restrict the use of glazed surface as per National Building Code,2005.
viii. All the recommendation made in the EMP report should be complied with.

Part-B GENERAL CONDITIONS

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/EMP 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, 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	Shri Ram Chandra Shaw, Director
Address	238A, A. J. C. Bose Road, 2nd Floor, Suit No. - 2B, Kolkata-700020.
Email	contact@squarefourgroup.com
Telephone Number, Fax Number	Tel:9133 22903179 / 85, fax-91 33 22903179.
Name of the Environmental Consultant	M/s. Envirotech East Pvt. Ltd.

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

No. 2331 / EN/T-II-1/071/2015 /1(3) Date : 21 / 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, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
3. Guard file / Record file.

Sd/-
Chief Environment Officer &
Member Secretary, SEIAA

Annexure – I

LIST OF TREES PROPOSED FOR PLANTATION

(Including compensatory plantation)

Sl. No.	*BOTANICAL NAME*	COMMON NAME	QUANTITY
1.	*Mimusops elengi*	Bakul	30
2.	*Lagerstroemia speciosa*	Jarul	30
3.	*Delonix regia*	Gulmohor	10
4.	*Alstonia scholaris*	Chatim	30
5.	*Azadirachta indica*	Neem	25
6.	*Bauhinia variegata*	Kanchan	20
7.	*Anthocephalus cadamba*	Kadam	10
8.	*Peltophorum pterocarpum*	Radhachura	5
9.	*Artocarpus heterophyllus*	Kanthal	5
10.	*Michelia champaca*	Champa	5
11.	*Polyalthia longifolia*	Devdaru	25
		Total	**195**

NOC NOCNO145479

SPEED POST

WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan
10A, Block-LA, Sector-III
Bidhannagar, Kolkata-700 098

Memo No. 806-2N-70/2015(E) Dated 14.12.2016

From :
Member Secretary,
West Bengal Pollution Control Board

To : M/s.Overflow Tradelink pvt. Ltd.
238A,A.J.C. Bose Road, 2nd Floor, Suit No.28, Kolkata-700020.

Sub : Consent to Establish (NOC) from Environmental Point of View

Ref : Your letter No. Nil Dated 21.11.2016

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s Overflow Tradelink Pvt. Ltd. for manufacturing/storage/installation construction of Residential Complex comprisingof 3X(B+G+18)blocks having 324 Flats & total built up area - 37444.12 Sq.m. at Premises No.1, Kashinath Dutta Road, Dag nos.921-925,JL No.8, Ward No.25, Baranagar Municipality, PO+PS-Baranagar,Dist.-North 24-Pgs., W.B. this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions and special conditions annexed.

1. The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS : 2490 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986.

2. Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.

3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.

4. All emission from your factory shall conform to the standards as laid down by this Board.

5. No. emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.

6. No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/ erected/re-erected without prior approval of this Board.

14/12/2016.
Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

NOCNO145479

7. You shall comply with
   (i) Water (Prevention and Control of Pollution) Cess Act, 1977, if applicable.
   (ii) Water (Prevention and Control of Pollution) Cess Act, 1978, if applicable.
   (iii) Environment (Protection) Act, 1986
   (iv) Environment (Protection) Rules, 1986
   (v) Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000
   (vi) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
   (vii) Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms or Cell Rules, 1989
   (viii) The Public Liability Insurance Act, 1991 and Amended Act, 1992
   (ix) The Public Liability Insurance Rules, 1991 and Amended Rules 1993
   (x) Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable.
   (xi) Recycled Plastics Manufacture and Usage Rules 1999, if applicable and
   (xii) Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable

8. You will have to abide by any other stipulations as may be prescribed by any authority/local bodies/Government Departments etc.

SPECIAL CONDITION :

See annexure.
Gross capital investment : Rs.980000000/-

Any violation of the aforesaid conditions shall entail cancellation of this Consent to Establish (NOC)

Yours faithfully,

14/12/2016.

Member Secretary / SR. ENV. ENGR.
West Bengal Pollution Control Board (EIM CELL)
Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

Memo No. 806-2N-70/2015(E) dtd. 14.12.2016. Dated .....

Copy forwarded for information to :

1. Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkata-700 001
2. Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. Building. Kolkata-700 001
3. Guard file, West Bengal Pollution Control Board.
4. Environmental Engineer, I/II/Alipur R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./ Asansol/ Sub-R.O./WBPC Board

Himalaya Bhawan
Delhi Road, Dankuni
Dist. Hooghly

Vill, Panpur
Kalyani Expressway
P.O. Narayanpur
Dist. 24 Pgs. (N)

Sahid Khudiram Sarani
City Centre, Durgapur-16
Dist. Burdwan

10, Camac Street
2nd Floor
Kolkata-700 017

Paribesh Bhawan
10A, LA-Block, Sector-III
Salt Lake City,
Kolkata - 700 098

Block-05 at 40
Flats Complex
Adjacent to Priyambada
Housing Estate
P.O. : Khanjanchak,
P.S. Durgachak
Haldia-721602
Dist. : Purba Medinipur

Paribahan Nagar
Matigara, Siliguri
Dist.-Darjeeling

Satya Chowdhury
Indoor Stadium
Balurchar Bandh Road
Malda-732101

Asansol Sub-Regional Office
ADDA Commercial Market (2nd Floor)
Opposite Asansol Fire Station
G.T. Road, Asansol-713 301

14/12/2016.

Member Secretary / SR. E. E.
West Bengal Pollution Control Board (EIM CELL)
Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

Annexure I to NOC Sl. No. **NO145479**

Special Conditions issued to **M/s Overflow Tradelink Pvt. Ltd. for the construction of proposed Residential Complex at Premises no. 1, Kashinath Dutta Road, Dag nos. – 921-925, JL no. – 8, Ward no.. – 25, Baranagar Municipality, PO & PS – Baranagar, Dist – North 24 Parganas, Kolkata – 700036, West Bengal**

A. Emission:-

1. DG Sets : 2X320 KVA

Stack –

i. DG sets to be provided with stack of height 4.5m above the roof of the DG room as proposed acoustic enclosures and residential silencer.

ii. Stacks to have sampling port, platform and ladder as per the Emission Regulation Part – III of CPCB.

B. Effluent:-

Domestic – wastewater generated from the entire project shall be treated in STP of adequate capacity. Treated wastewater shall be partly reused and partly discharged. Discharge of treated sewage shall conform to E(P) Rules. Sewage Treatment Plants should be monitored on a regular basis and records should be maintained properly.

C. Solid Waste :-

To be collected and disposed off through onsite compost plant regularly as per the Municipal Solid Wastes (Management and Handling) Rules, 2000.

D. General:-

1. The Project Proponent shall have to obtain prior concurrence from the concerned authority for ensuring supply of water, partial discharge of treated sewage and disposal of solid wastes.
2. D.G. Set noise level should not exceed the permissible limit. The Project Proponent should ensure that the ambient noise level is maintained within permissible limits during the construction phase.
3. The proponent should strictly comply with the standards / guidelines for control of noise from stationery Diesel generator sets. These standards and guidelines are prescribed under the notifications of Ministry of Environment & Forest, Govt. of India, G.S.R. 371(E) [17.05.2002], G.S.R. 489(E) [09.07.2002] and subsequent amendments.
4. The following activities are restricted during the night time (10 pm to 6 am), if there is any significant human settlement in the vicinity

a) Piling work.
b) Operation of Ready Mix Plant, if installed and Vibrator.
c) Loading and unloading of construction materials.

5. Adequate measures are to be taken to reduce vibration during piling work.
6. Water sprinkling arrangement should be ensured at every loading and unloading point to prevent spreading of dust. Rubbish, debris, broken materials and others must be kept properly within project area at suitable place with proper water sprinkling to prevent fugitive dust spreading.
7. Provision of drinking water, wastewater disposal and solid waste management should be ensured for labour camps. Proper sanitation facilities should be provided for construction workers to ensure environmental sanitation. Health and safety of the workers should be ensured during construction.
8. The project proponent should take necessary care not to cause any inconvenience to the residents of surrounding neighborhood. Regular supervision should be in place all through the construction phase so as to avoid disturbance to the surroundings.
9. The Project Proponent will ensure that no accumulation of any kind of water occurs within the project area to prevent breeding of various disease spreading vectors.
10. Necessary dust barrier should be provided during construction phase. Before taking up the construction work it is preferable to enclose the area with some enclosure.
11. Appropriate arrangement is to be done for rainwater harvesting within the site. The proponent must practice rainwater harvesting on regular basis.
12. Ground water should not be abstracted without obtaining prior permission of the Local body as well as the Competent Authority as per the West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.
13. Provision of screen wall should be made surrounding the batching plant, if installed for control of fugitive emission from such operation.

14/12/2016.

Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

Annexure I to NOC Sl. No. **NO145479**

Special Conditions issued to **M/s Overflow Tradelink Pvt. Ltd. for the construction of proposed Residential Complex at Premises no. 1, Kashinath Dutta Road, Dag nos. – 921-925, JL no. – 8, Ward no.. – 25, Baranagar Municipality, PO & PS – Baranagar, Dist – North 24 Parganas, Kolkata – 700036, West Bengal**

14. Fly Ash is to be used for construction as per Notification No. S.O. 763(E) dated 14.09.1999 amended vide Notification No. S.O. 979(E) dated 27.8.2003 and S.O. 2804(E) dated 03.11.2009 of the Ministry of Environment & Forests, Govt. of India.
15. The proponent should strictly abide by The West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2007. No trees can be felled without prior permission from the Tree Cutting Authority constituted as per the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006 and subsequent rules. Adequate green belt is to be developed within the project site. Water intensive and/or invasive species should not be used for landscaping.
16. Proper steps are to be taken so that the flora and fauna are not affected during the construction phase.
17. Adequate firefighting storage should be provided as per Rules.
18. Adequate parking space should be provided within the project site as per Rules.
19. Road design should be done with due consideration for environment and safety of users. The entry and exit points should be designed properly without disturbing the existing traffic.
20. Use of energy efficient construction materials should be ensured. Water efficient devices / fixtures should be installed. Energy efficient systems should be installed.
21. Adequate provision shall be made for storage of solid waste and adequate means of access shall be provided. Vats / bins should be provided inside the project area from where the wastes are to be disposed off by arrangement with the local body.
22. The proponent shall undertake awareness programs for the residents to promote water and energy conservation and to ensure environmental protection.
23. No expansion of the project should be undertaken without prior permission of the State Board.
24. The unit should not start operation without obtaining 'Consent to Operate' from this Board.
25. The proponent should maintain a display board at the site, providing detailed information on the salient features of the proposed project.
26. The proponent should abide by the Direction issued by the Department of Environment, Government of West Bengal, vide No. EN/3170/T-IV-7/001/2009 dated 10.12.2009 **(Annexure II)**.
27. The proponent should strictly abide by the conditions stipulated in the Environmental Clearance accorded by the State Environment Impact Assessment Authority (SEIAA), West Bengal, vide No. 2331/EN/T-II-1/071/2015 dated 21.10.2016.
28. This NOC is valid up to **30.11.2023** for construction of a Residential Complex. The proposed Residential Complex will comprise of *3X (B+G+18) blocks having total number of flats -324*. The *Total Built-up Area* of the proposed project shall be *37444.12 sqm*.

14/12/2016

Member Secretary/Sr. Environmental Engineer (EIM Cell)
West Bengal Pollution Control Board

Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

Department of Environment
Government of West Bengal
Writers' Buildings, "G" Block, (2nd. Floor),
Kolkata-700 001.

No. EN/3170/T-IV-7/001/2009 Dated: December 10th., 2009.

DIRECTION

WHEREAS, Department of Environment, Govt. of West Bengal is entrusted to look after the execution of the different environmental laws within the territorial jurisdiction of West Bengal and also responsible for maintaining pollution free environment and also responsible for restraining different environment hazardous activities which are causing serious impact on human beings, other living creatures, plant, micro-organism, property or the environment ;

AND WHEREAS, Department of Environment has already taken different steps for controlling air pollution in the atmosphere generated from the different sources i.e. industrial source, vehicular source and burning of bio-mass;

AND WHEREAS, Department of Environment in exercising the power conferred under section 19 of the Air (Prevention & Control of Pollution) Act, 1981, has already declared entire West Bengal as 'Air Pollution Control Area';

AND WHEREAS, West Bengal Pollution Control Board conducted a study with the help of the Asian Development Bank and it is revealed that the contribution of the construction activities is one of the source of air pollution in Kolkata and its surroundings ;

AND WHEREAS, it is further revealed that burning of old tyres in hot mix plant as a fuel during construction and repairs of road for melting coal tar contributes significant obnoxious element into the air which cause a serious problem of the human beings ;

HENCE, in view of the above and in consultation with the West Bengal Pollution Control Board and in exercise of the power conferred under Air (Prevention & Control of Pollution) Act, 1981 and Environment (Protection) Act, 1986, all the municipalities, local authorities and all other concerned Govt. Departments within the State of West Bengal, are now directed to take immediate steps to implement the following norms which need to be strictly followed by the developers, contractors or any other infrastructure developers ;

- Preventive measures need to be taken: -

a) Wrap construction area/buildings with geotextile fabric, installing dust barriers, or other actions, as appropriate for the location,
b) Apply water and maintain soils in a visible damp or crusted condition for temporary stabilization,
c) Apply water prior to levelling or any other earth moving activity to keep the soil moist throughout the process;
d) Limit vehicle speeds to 15 mph on the work site.
e) Clean wheels and undercarriage of haul trucks prior to leaving construction site.
f) Apply and maintain dust suppressant on haul routes.
g) Apply a cover or screen to stockpiles and stabilize stockpiles at completion of activity by water and maintain a dust palliative to all outer surfaces of the stockpiles;
h) Stabilize surface soils where loaders, support equipment and vehicles will operate by using water and maintain surface soils in a stabilized condition where loaders, support equipment and vehicles will operate;
i) Stabilize adjacent disturbed soils following paving activities with immediate landscaping activity or installation of vegetative or rock cover.
j) Maintain dust control during working hours and clean track out from paved surfaces at the end of the work shift/day. Track out must now extend 50 feet or more and must be cleaned daily, at the minimum.
k) Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slope,
l) Disposal of debris in consultation with the local authorities following proper environmental management practice.
m) During construction work, including cutting of marbles, ambient noise level should not exceed more than 65 dB(A).

- Practices to be discarded: -

a) Don't dispose of debris indiscriminately,
b) Don't allow the vehicles to run at high speed within the work site.
c) Don't cut materials without proper dust control/noise control facility.
d) Don't keep materials without effective cover.
e) Don't allow access in the work area except workers to limit soil disturbance and prevent access by fencing, ditches, vegetation, berms or other suitable barrier.
f) Don't leave the soil, sand and cement stack uncovered.
g) Don't keep materials or debris on the roads or pavements.
h) Burning of old tyres in hot mix plant as a fuel during construction and repair of the roads for melting coal tar should be discarded ;

NOW THEREFORE, it is made clear that any developers, contractors or infrastructure developers either Govt. or Private failed to comply with the aforementioned statutory norms, Department of Environment and West Bengal Pollution Control Board will take necessary action under Air (Prevention & Control of pollution) Act, 1981 and Environment (Protection) Act, 1986 which may lead to stoppage and prohibition of the work including closure and other legal action as warranted under the law including imposition of the `Pollution Cost'.

It is further directed that all Municipal Corporations, Municipalities and Panchayats should also be at liberty to take necessary action against the violators under the Municipal Laws and Panchayat Law.

But it is made clear that Local Authorities i.e. Municipal Corporations, Municipalities and Panchayats are responsible to implement the aforementioned guidelines meticulously for the purpose of curbing air pollution and other environmental hazards of their respective jurisdiction.

Local Police Station is also directed to render all necessary help to the Local Authorities to implement the aforementioned direction in a befitting manner.

This order will take effect from 01-01-2010 through out the State of West Bengal.

By Order,
Sd/-
(M. L. Meena)
Principal Secretary to the Govt. of West Bengal.
Department of Environment.

No. EN/3170/T-IV-7/001/2009

Dated: December 10th., 2009.

Copy forwarded to :

1) The Principal Secretary to the Govt. of West Bengal, Urban Development Department.
2) The Director General of Police, Govt. of West Bengal, Writers' Buildings, Kolkata-700001.
3) The Secretary to the Govt. of West Bengal, Municipal Affairs Department.
4) The Commissioner of Police, Kolkata.
5) The Member-Secretary, West Bengal Pollution Control Board.
6) The District Magistrate.....District, with a request to advice his good office to circulate this direction to all SDOs., BDOs., for necessary action.
7) The Commissioner.....Corporation.
8) The Executive Officer.....Municipality.
9) The Secretary, ...Zilla Parishads, with a request for circulate this direction through his good office to the Panchayat Samity and Gram Panchayat for implementation.
10) The P.S. to Principal Secretary to the Govt. of West Bengal, Department of Environment.
11) The P.S. to MIC, Environment Department, Govt. of West Bengal.

Sd/-
Chief Law Officer,
Department of Environment.

পড়া শোনা

অ্যাডমিশন

MBBS /BDS Non NEET Qualify Eligible for Chattisgarh MBBS fee 518250L BDS fee2.50 L- 3.25L # 07310055479 suresucc esscoaching2016@gmail.com

বিদেশি ভাষা শিক্ষা

LEARN French, Spanish, German, Japanese and English at YIELD (Near Sealdah). 9 6 7 4 1 2 7 3 8 8, 23522612.www.yield.org.in

LEARN French the French way, Admission now, Alliance Francaise 57A, Park Street, Gate No. 3, 2nd Floor, Kol- 16. 9903127482.

ব্যবসা বাণিজ্য

ব্যবসায়িক প্রস্তাব

FINANCE

ধারদেনা (লোন্স)

ব্যক্তিগত

নাম পরিবর্তন

আমি Kartik Chandra Sarder ওরফে Kartik Chandra Sardar, পিতা স্বর্গীয় Lakhindra Nath Sarder, ঢালুয়া আদিবাসী পাড়া, পোঃ-ঢালুয়া, থানা-সোনারপুর, জিলা-দক্ষিণ ২৪ পরগনা, পিন-৭০০১৫২ , 21.9.2016 C.M.M.'s Court 2 & 3 Bankshall Street, Kol-700001 নোটারী এভিডেভিটে Kartik Chandra Sarder ও Kartik Chandra Sardar এক ও অভিন্ন ব্যক্তি হিসাবে পরিচিত হলাম।

I, Debasish Mandal (Army No-14811140 K NK/MT), Father-Pashupati Mandal, Vill+PO- Shyamnagar, P.S + Sub Division - Tehatta, Dist.-Nadia. As per my Service Record has been inadvertently enrolled as my son's Name - Dibbendu Mandal & DOB - 23.09.1998. Correct Spelling & D.O.B Dibyendu Mandal & 23.10.1999. On 24.10.2016 vide affidavit from S.D.D.M Court Tehatta known as Dibyendu Mandal Dob - 23.10.1999. Both are same & identical person.

I Sikha Roy, daughter of Sadhan Chandra Mondal, wife of Lt. Ranjit Kr. Roy, resident of 106, M.G. Road, Kol-82, changed my name from Jyostna to Sikha vide affidavit no. 25117 Police Court Alipore 1st class Magistrate Kolkata dated 05.06.2016. Thus, Sikha Roy and Jyostna Roy are the names of the same person.

আমি, নির্মল কুমার বানসালি। কমলপাত রাজ বানসালির পুত্র। পি -4, নিউ সি. আই. টি. রোড, স্কিম-এল টু, গ্রাউণ্ড ফ্লোর, কলি-14 নিবাসী। গত 21.10.2016-তে নোটারি পাবলিক কলকাতায় এফিডেভিট বলে নাম পরিবর্তন করে নির্মল বানসালি হলাম।

I, have changed my name from Md-Akash to Md -Aahil S/o Md-Akhtar, R/o 53/22, A Tiljala Road, Kolkata - 46 vide affidavit no 9427 of 17th June 2016 before the 1st class Judicial Magistrate at Sealdah.

I, Thakur Krishna Bhowmick changed my wife's name from Anima Rani Bhowmick to Anima Bhowmick vide affidavit No.74AA256409 sworn at Kalyani Court on 26.09.16.

দরপত্র

সাধারণ বিজ্ঞপ্তি

সর্বসাধারণের জন্য বিজ্ঞপ্তি

সর্বসাধারণের জ্ঞাতার্থে জানানো যাইতেছে যে, উত্তর ২৪-পরগণা জেলায় বরানগর থানার অধিনস্থ বরানগর মিউনিসিপ্যালিটি-র ২৫নং ওয়ার্ডে অবস্থিত ১ নং কাশীনাথ দত্ত রোড, কোলকাতা-৭০০০৩৬-এর অন্তর্গত ৮নং জে.এল. এর অন্তর্ভুক্ত নৈনান মৌজায় ৯২১, ৯২২, ৯২৩, ৯২৪ ও ৯২৫ নম্বর দাগের জমিতে প্রস্তাবিত আবাসন প্রকল্পটির জন্য পশ্চিমবঙ্গের স্টেট লেভেল এনভায়রনমেন্ট ইমপ্যাক্ট অ্যাসেসমেন্ট অথরিটি (এস.ই.আই.এ.এ.) কিত ২১শে অক্টোবর, ২০১৬ তারিখের তথ্য নির্দেশ সংখ্যা 2331/EN/T-II-1/071/2015 দ্বারা প্রয়োজনীয় পরিবেশগত ছাড়পত্র প্রদান করিয়াছেন। উক্ত ছাড়পত্রের অনুলিপি পশ্চিমবঙ্গ দূষণ নিয়ন্ত্রণ পর্ষদ এবং এস. ই.আই.এ.এ. - এর ওয়েবসাইট http://environmentwb.gov.in তে দ্রষ্টব্য।

প্রকল্পকারকের বিবরণ ঃ
ওভারফ্লো টেডলিঙ্ক প্রাইভেট লিমিটেড
২৩৮-এ, এ.জে.সি. বোস রোড, ত্রিতল, কক্ষ নং ২বি, কোলকাতা-৭০০০২০ পশ্চিমবঙ্গ।

TENDERS

BENFED
Southend Conclave, 3rd Floor
1582, Rajdanga Main Road
Kolkata- 700107

Tender Id: 2016_SCMFL_88880_1

NIT No: WBSCMF/MD/ENG/ NIT-48/2016-17 dated 05.10.2016

WORK: Construction of 850 MT Paddy godown at Madhusudankati S.K.U.S. Ltd, Gaighata-I Block, Dist: 24 Parganas North under RIDF-XXI

Estimated amount - Rs. 1,07,31,516/- Last date of Bid Submission: **16.11.2016**

INFORMATIONS

- The detailed tender documents can be downloaded from the e-procurement portal **wbtenders.gov.in**. Important information may be had from **www.benfed.org**
- In case of any queries or information, all bidders are welcome at the Head office of BENFED at above address.

Sd/-
GM(Admin.)

টেন্ডার ন
এইচএমা
তারিখ ঃ
কেপিডি-(
একটি সান
অপসারণে
সংস্থাগুলি
টেন্ডার অ
টেন্ডার জ
২৯.১১.২(
সমস্ত ত
www.k
trust.g
mstceco
eprocho
eprocu
পাওয়া যা

W
WEST BENGAL E
DEVELOPMENT
(A Govt. of West

WBEIDC in
e-Tenders on
for the Con
following
Bhavan.
Name of the
of externa
painting of
Salt Lake
Complex, Se
(i) NIT No. :
Bhavan/ Exte
2016-17:37 d
(ii) Estimated
Lakh; **(iii)**
Deposit :
(iv) Time Of
Days.
The Tender
and other
available at
http://wbtend
can be viewe
respective NIT
in the **"TEN**
section of the w
For any quer
23392377.

এই
CLASSIF
বিজ্ঞাপন
যোগাযোগ
৬৬৩৯
৬৬৩৯

> THE HEALTH OF UP CONTINUES TO DECLINE. BUT THE CONDITION OF FAMILIES RULING SP, BSP AND CONG IS GOOD. THEIR WEALTH IS INCREASING....
> SRIKANT SHARMA, BJP national secretary

PUBLIC NOTICES

PUBLIC NOTICE

This is to notify to the public at large that our proposed "Residential Complex" at Premises No. 1, Kashinath Dutta Road, Kolkata-700036, Baranagar Municipal Ward No. 25, Mouza Nainan, Dag Nos. 921, 922, 923, 924 & 925, JL No. 8, P.S. Baranagar, District North 24 Parganas in West Bengal has been accorded Environmental Clearance (EC) by the State Level Environment Impact Assessment Authority (SEIAA), West Bengal vide its Letter No. 2331/EN/T-II-1/071/2015 dated 21st October, 2016. Copy of the Environmental Clearance Letter is available with West Bengal Pollution Control Board and also at the Website of the SEIAA, West Bengal at http://environmentwb.gov.in.

Project Proponent:
M/s Overflow Tradelink Pvt. Ltd.
238A, AJ.C Bose Road
2nd Floor, Suite No. 2B
Kolkata-700 020, West Bengal

700022, declaring that my father's previous name was Parma Singh but in all the documents his name was Late Parma Ray . Parma Singh & Late Parma Ray are same and identical person , vide an Affidavit sworn before the 1st Class Magistrate at Alipore on 06-10-2016 .

I, RANJIT Gupta , S/O : Ramganesh Gupta , R/O : 4/H/9 , Commissariat Road , Hastings , Kolkata - 700022 , shall henceforth be known as Ranjit Kumar Gupta vide an Affidavit sworn before the Notary Public on 21-10-2016 .

I, NAMIT Kumar, S/o Mahesh Kumar Dhandhania, R/O 5/1/1B Cornfield Road Manikanchan 1WB, Kolkata-19, have changed my name to Namit Dhandhania for all purposes.

DISCLAIMER

Readers are advised to make appropriate thorough enquiries before acting upon any advertisement. This newspaper does not vouch or subscribe to the claims and representations made by advertisers regarding particulars mentioned in any advertisement.

from the date of this NIT in any Govt. / Semi Govt./ Statutory or Local Bodies : **1) Name of Works :** (a) Laying of 400 mm DI (K-7) Pipe From Santoshpur Pump House to Power Club along Karbala Road, from Badamtala Pump House to Tulssi Manna More along Santoshpur Road, from Tulssi Manna More to Guler More along Ramdashati Road within Maheshtala Municipality under Water Supply Expansion Programme of GRWW Ph-II on Turnkey basis, (b) Laying of 300 mm DI (K-7) Pipe From Power Club to Baro Masjid Ghoshpara along Panchur Road, along Laskarpara Road, along Malipara Road and along Ghoshpara Hari Shabha Road, From Naya Basti to Naskarpara More along Bandal Road -do- on Turnkey basis, (c) Laying of 250 mm DI (K-7) Pipe From Naha Palace to Kathgola Shanti Nagar along Kayalpara Road, Shantinagar, Lalar Bagan and Kalinagar Road, Laying of 200 mm DI (K-7) Pipe from Ghosh Para to Amritala along Ghoshpara Road; from Rabindranagar 'A' Block to Satghara Pirdanga along Satghara Road; from Khyali Sangha Club to Bidhangarh along Kazir Danga Road; from Khyali Sangha Club to Pirdanga along Pirdanga Road and from 241A Bus Stand to South Bidhangarh along South Bidhangarh Road, Laying of 100 mm dia. And 150 mm dia DI (K-7) Pipe within Ward Nos.- 1, 3 & 9 -do- on Turnkey basis; **2) Tender No :** SE(FAWS)/T-28, T-29 & T-30 of 2016-17; **3) Estimated cost** : Rates to be quoted by the tenderer; **4) Earnest Money** : 2% of the quoted Amount; **5) Cost of tender Paper** : Rs.2,500.00; **6) Time of Completion** : 3 (three) months each ; **7) Last date & time of Online-Submission of Bids** : 17.11.2016 up to 15.30 Hrs. For details & corrigendum if any, Please keep visit : www.wbtenders.gov.in www.kmdaonline.org & www.kmwsa.gov.in or contact this office of the undersigned for further information. The authority reserves the right to reject or accept any or all tender without assigning any reason.

Superintending Engineer (FAWS) /KMW&SA.

Directorate

KOLKATA METROPOLITAN WATER AND SANITATION AUTHORITY

Office of the Superintending Engineer, (FAWS)
P-4, Dobson Lane,
3rd Floor, Howrah-1

No. : SE (FAWS)/3T-1/2016/274
DATE : 25.10.2016

ABRIDGED e-Tender–NOTICE

Notice inviting e-Tenders are invited by the undersigned in two parts, viz. Part-I and Part-II from reliable, experienced and resourceful agencies who have successfully completed not less than 50% value of similar type of work in a single contract within last 05 (five) years from the date of NIT in any Govt. / Semi Govt./ Statutory or Local Bodies : **1) Name of Works :** (a) Supplying and laying of 110 mm dia HDPE distribution main with allied works within Ward nos.-1, 2, 3, 4 & 5 within Maheshtala Municipality under Water Supply Expansion Programme of GRWW Ph-II on Turnkey basis, (b) –Do– 110 mm dia.h and 160 mm dia (ID) HDPE distribution main with allied works within Ward No.- 6 –do–, (c) – Do– 110 mm dia. HDPE distribution main with allied works within Ward No.-7 -do- on Turnkey basis; (d) –Do- 110 mm dia. HDPE distribution main with allied works within Ward Nos.- 9 & 10 -do- on Turnkey basis; (e) -Do- 110 mm dia. HDPE distribution main with allied works within Ward Nos. - 11, 12 & 13 -do- on Turnkey basis; **2) Tender No :** SE(FAWS)/T-31, T-32, T-33, T-34 & T-35 of 2016-17; **3) Estimated cost** : Rates to be quoted by the tenderer; **4) Earnest Money** : 2% of the quoted Amount; **5) Cost of Tender Document** : Rs.2,500.00; **6) Time of Completion** : 3 (three) months each ; **7) Last date & time of Online-Submission of Bids** : 17.11.2016 up to 15.30 Hrs. For details & corrigendum if any, Please keep visit : www.wbtenders.gov.in www.kmdaonline.org & www.kmwsa.gov.in or contact this office of the undersigned for further information. The authority reserves the right to reject or accept any or all tender without assigning any reason.

Superintending Engineer (FAWS) /KMW&SA

Speed Post

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Pranisampad Bhawan, 5th floor, LB 2, Sector-III, Salt Lake, Kolkata – 700 106
e-mail: environmentwb@gmail.com
Web Portal: www.environmentwb.gov.in

No. 1903 / EN / T – II – 1/ 071 / 2015 Date: 30th August, 2017

To
M/s Overflow Tradelink Private Limited,
238A, A.J.C. Bose Road, 2nd floor, Suite 2B,
Kolkata – 700 020.

Sub: Change of Name - Environmental Clearance for the proposed Residential Complex at Premises No. 1, Kashinath Dutta Road, Baranagar Municipality, Dag no-921 to 925, JL no-8, P.S-Baranagar, Dist-North 24 Parganas.

Ref: Your letter Order No. Sinthee/Project/L/20, dated 25.05.2017.

Sir,

With reference to the above, SEIAA in its meeting held on 24.08.2017 considered the submission of the project proponent and approved the prayer for change of name of project proponent.

Therefore, the name of project proponent in the Environmental Clearance issued vide 2331/EN/T-II-1/071/2015 dated 21.10.2016 is changed from 'Overflow Tradelink Pvt. Ltd.' to 'Square Four Housing & Infrastructure Development Private Limited'. All terms and conditions of the EC would remain same.

Yours sincerely,

(Sandipan Mukherjee, IFS)
Member Secretary, SEIAA

No. 1903 / EN / T – II – 1/ 071 / 2015 Date: 30th August, 2017

Copy forwarded for the information to:

The Secretary, State Level Expert Appraisal Committee, West Bengal Pollution Control Board, 'Paribesh Bhavan', LA, Salt Lake Sector III, Kolkata – 700 106.

Sd/-
(Sandipan Mukherjee, IFS)
Member Secretary, SEIAA